

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P383701

Luminaire Tested: **GLEON-SA9D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61401.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

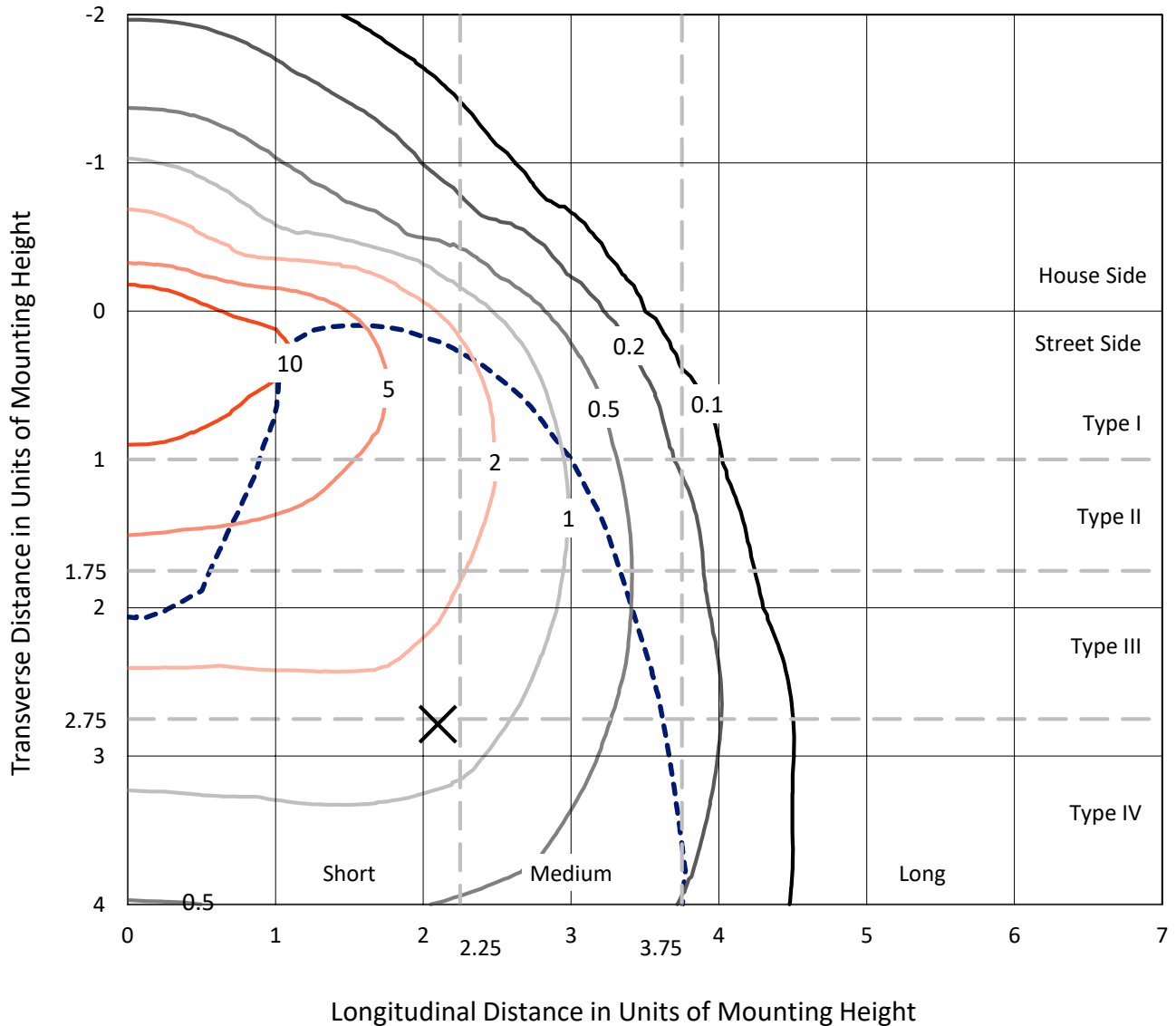




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Iso-Footcandle Lines of Horizontal Illumination

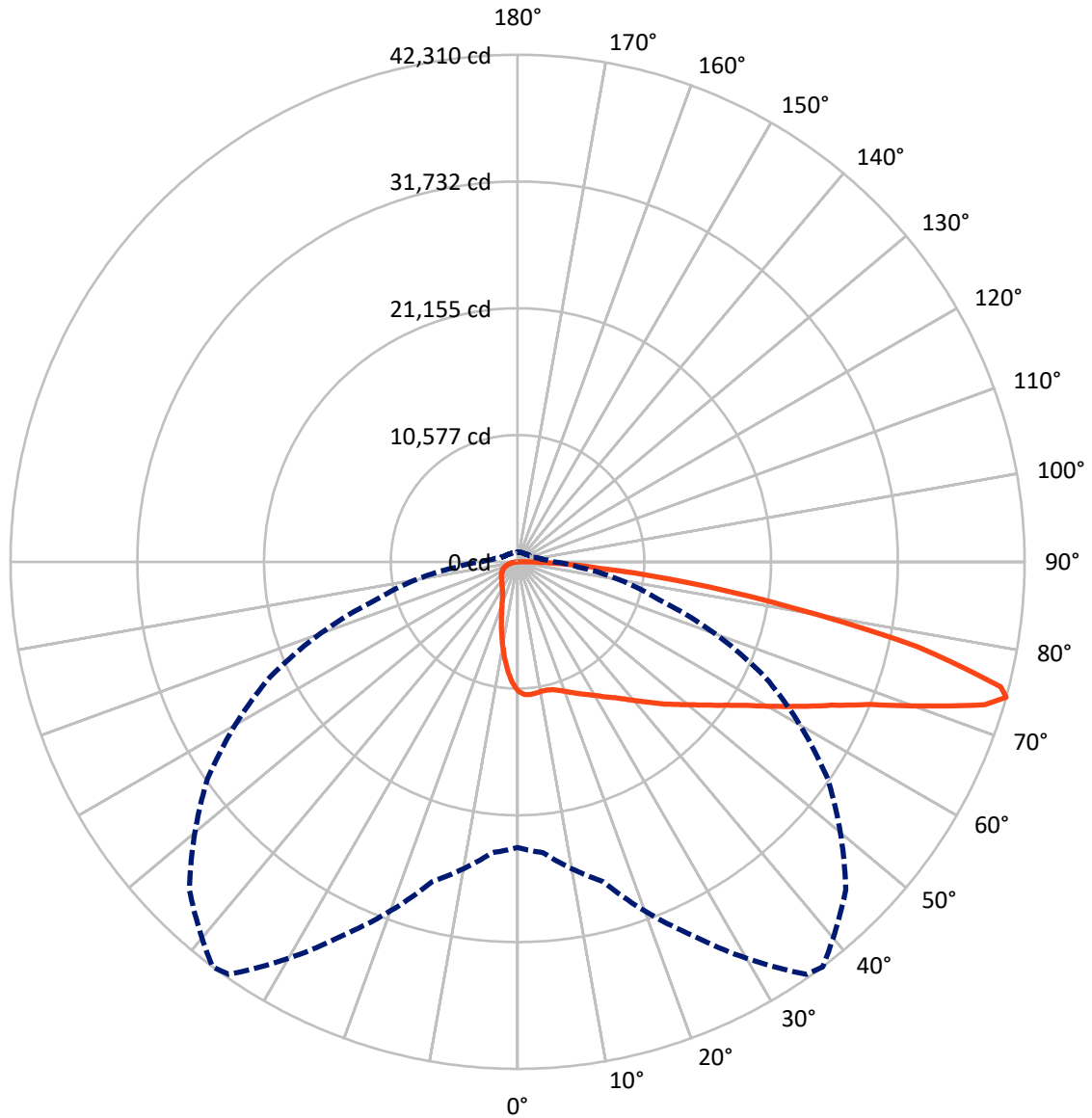
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - Horizontal Cone Through 74-Deg Vertical

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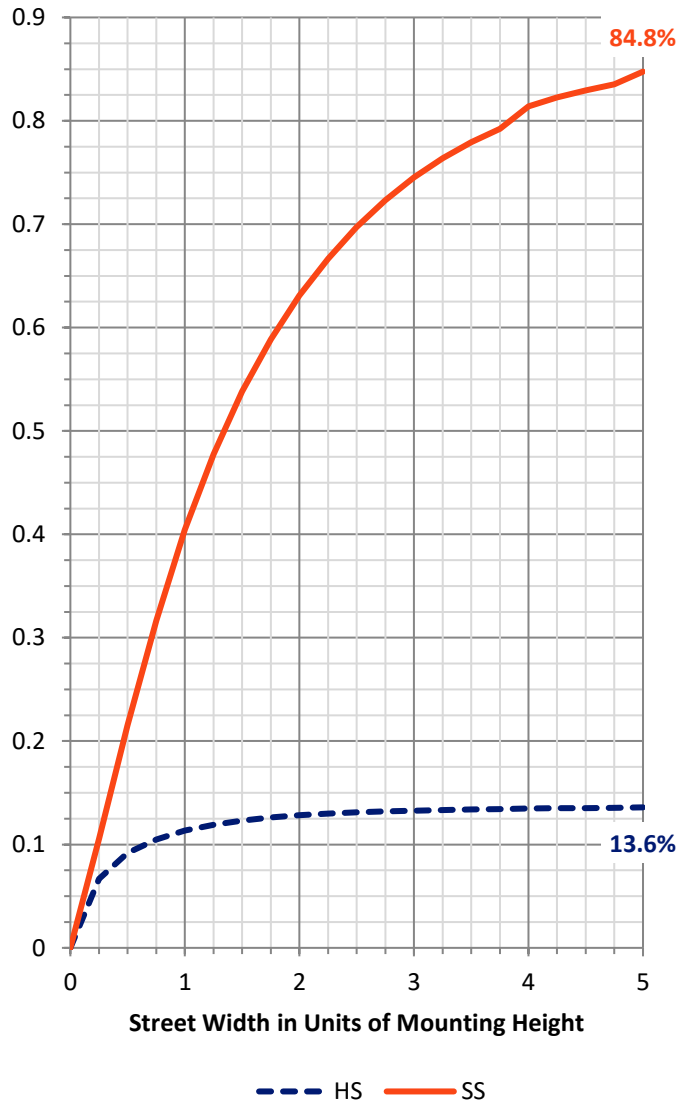
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8448.4	0.0	8448.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	52952.7	0.0	52952.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	61401.1	0.0	61401.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	952.7	1.6
10°-20°	2442.0	4.0
20°-30°	3762.7	6.1
30°-40°	5471.5	8.9
40°-50°	8053.1	13.1
50°-60°	11309.2	18.4
60°-70°	14313.9	23.3
70°-80°	12603.9	20.5
80°-90°	2492.1	4.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	61401.1	100.0
0°-180°	61401.1	100.0

Coefficient of Utilization



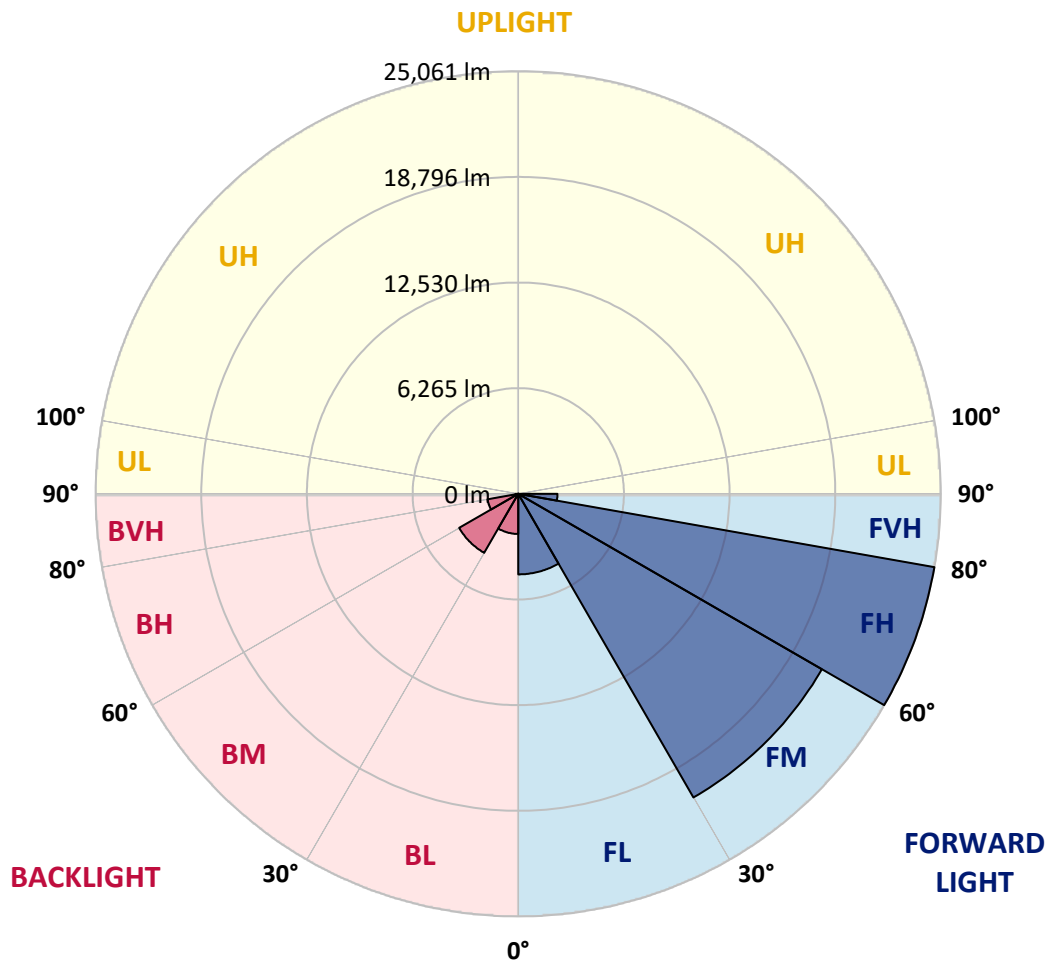
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4777.7	7.8			
FM (30°-60°)	20790.9	33.9			
FH (60°-80°)	25060.8	40.8			G5
FVH (80°-90°)	2323.3	3.8			G5
BL (0°-30°)	2379.7	3.9	B3/2500		
BM (30°-60°)	4042.9	6.6	B3/5000		
BH (60°-80°)	1857.0	3.0	B3/2500		G3/2500
BVH (80°-90°)	168.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6
2.5°	11188.4	11190.7	11188.4	11171.2	11130.1	11095.5	11067.3	11026.3	10935.4	10866.2	10762.4
5°	11294.5	11281.5	11272.8	11240.4	11175.5	11136.6	11082.5	11004.7	10855.4	10717.0	10548.3
7.5°	11244.7	11229.6	11210.2	11171.2	11097.6	11065.2	10989.5	10887.8	10708.3	10526.7	10284.4
10°	11091.2	11086.8	11078.2	11069.5	11006.8	10980.8	10911.7	10803.5	10626.2	10405.6	10122.2
12.5°	10920.3	10931.1	10965.7	11011.2	10983.0	10970.0	10926.8	10853.3	10671.5	10433.6	10091.9
15°	10812.1	10842.5	10935.4	11054.4	11078.2	11073.9	11063.1	11015.5	10823.0	10559.1	10161.1
17.5°	10775.4	10825.1	11002.5	11199.3	11268.5	11283.6	11287.9	11205.8	10991.7	10712.6	10232.5
20°	10842.5	10905.2	11164.7	11435.0	11545.3	11554.0	11534.5	11391.8	11151.7	10844.6	10271.4
22.5°	11045.7	11102.0	11426.4	11731.4	11856.8	11869.8	11811.4	11595.1	11320.4	11000.3	10325.5
25°	11437.2	11506.4	11830.8	12135.8	12200.7	12202.9	12118.5	11850.3	11541.0	11218.7	10442.3
27.5°	11947.7	12016.9	12308.8	12607.3	12572.7	12553.3	12438.6	12170.4	11828.7	11519.4	10649.9
30°	12516.5	12592.2	12869.1	13081.0	12998.8	12959.9	12866.9	12520.8	12228.8	11930.3	10967.9
32.5°	13104.8	13173.9	13416.2	13561.2	13457.3	13440.0	13299.4	12983.6	12750.1	12557.5	11482.6
35°	13708.2	13757.9	13995.9	14078.1	13939.7	13935.3	13896.4	13606.6	13459.5	13550.3	12230.9
37.5°	14324.6	14337.6	14540.9	14545.3	14504.2	14521.4	14562.5	14380.9	14421.9	14705.3	13204.3
40°	14874.0	14908.6	15055.7	15101.1	15172.5	15233.0	15438.5	15319.6	15637.5	16139.2	14415.5
42.5°	15280.6	15347.7	15583.4	15700.2	15931.6	16026.8	16316.6	16426.9	17067.2	17819.9	15856.0
45°	15624.5	15728.3	16106.8	16346.9	16738.4	16904.9	17320.2	17690.1	18682.8	19643.1	17372.2
47.5°	15996.5	16128.4	16602.1	17060.6	17592.7	17780.9	18535.7	19089.5	20406.6	21477.2	18801.8
50°	16543.7	16645.4	17108.2	17828.5	18492.4	18734.7	19779.4	20573.1	22158.5	23224.8	20041.0
52.5°	17307.2	17268.3	17659.8	18669.8	19560.9	19859.4	21107.4	22152.0	23934.3	24805.9	21087.9
55°	18075.0	18010.2	18284.8	19550.1	20806.8	21120.3	22569.4	23737.4	25623.4	26229.0	21890.3
57.5°	18929.3	18806.1	19037.5	20542.9	22225.6	22599.7	24206.7	25422.3	27284.5	27379.7	22400.7
60°	19809.6	19643.1	19902.7	21773.5	24027.2	24468.5	26123.0	27066.0	28850.4	28301.1	22565.2
62.5°	20579.7	20462.8	20862.9	23146.9	26058.2	26542.7	28004.7	28813.6	30394.7	28683.8	21972.5
65°	21252.3	21271.7	21963.8	24691.2	28322.7	28839.6	30163.2	30967.9	31610.2	28456.7	20586.1
67.5°	22054.7	22165.0	23345.9	26724.3	31173.3	31740.0	33303.8	33316.7	32289.4	27124.4	17856.6
70°	23224.8	23451.9	25247.1	29544.7	35226.6	36005.2	37212.1	34696.6	31335.6	23512.4	14050.0
72.5°	24263.0	24686.9	27269.4	32771.7	40166.5	40757.0	39498.2	33900.7	27349.4	17620.9	8753.1
74°	23841.2	24366.8	27637.1	34361.3	42026.6	42309.9	38726.0	31577.8	22803.1	12202.9	5087.1
75°	22932.8	23503.8	27100.7	34346.3	41790.8	41632.9	36861.6	28924.0	18780.1	8322.7	3384.9
77.5°	18507.6	19111.1	22835.5	29436.5	34266.2	34117.0	28316.2	19403.0	8225.4	2729.5	1719.5
80°	10760.2	11221.0	14175.4	18693.6	23105.8	23376.3	18622.2	9600.9	3235.6	1533.5	1165.7
82.5°	4780.0	5097.9	6847.6	9542.6	13944.0	14292.2	9752.4	5030.8	1998.4	932.2	700.8
85°	3136.1	3371.9	4157.0	4544.2	6640.0	6877.9	4773.4	3917.0	1319.4	512.6	514.8
87.5°	2255.8	2482.9	3088.5	2697.1	3047.5	2885.3	2597.6	3624.9	529.9	291.9	173.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6	10818.6
2.5°	10717.0	10682.3	10604.6	10457.5	10375.2	10306.0	10191.4	10124.3	10094.1	10091.9	10104.9
5°	10450.9	10370.9	10169.8	9923.2	9726.4	9546.9	9324.1	9190.0	9094.8	9038.6	9053.7
7.5°	10141.7	10016.2	9700.4	9306.8	8991.0	8642.8	8298.9	8093.5	7933.3	7814.4	7836.1
10°	9929.7	9756.7	9296.0	8729.3	8203.8	7697.7	7224.0	6940.6	6715.7	6542.6	6555.7
12.5°	9858.3	9624.7	8986.7	8229.7	7492.2	6800.0	6181.5	5746.7	5515.3	5318.5	5333.6
15°	9869.1	9555.5	8727.1	7779.8	6851.9	5980.3	5229.8	4721.5	4407.9	4271.6	4273.8
17.5°	9877.8	9475.5	8454.6	7297.5	6218.3	5214.6	4399.2	3884.5	3588.2	3462.7	3464.9
20°	9849.7	9345.8	8117.2	6743.8	5556.4	4511.8	3722.3	3285.4	3060.4	2963.2	2963.2
22.5°	9812.9	9192.1	7736.6	6188.0	4903.2	3901.8	3237.8	2904.8	2775.0	2710.1	2707.9
25°	9830.2	9077.6	7347.2	5617.0	4301.9	3415.1	2915.6	2695.0	2608.4	2567.3	2565.1
27.5°	9923.2	9023.4	6988.2	5048.1	3776.4	3049.6	2699.3	2543.5	2487.3	2461.3	2461.3
30°	10091.9	9023.4	6614.0	4563.7	3339.5	2779.3	2532.7	2426.8	2387.8	2370.5	2370.5
32.5°	10386.1	9073.2	6252.8	4083.4	2991.2	2567.3	2394.3	2322.9	2292.6	2284.0	2284.0
35°	10892.2	9241.9	5900.3	3629.3	2710.1	2394.3	2262.4	2221.3	2199.7	2197.4	2203.9
37.5°	11603.7	9585.8	5569.4	3294.0	2511.1	2253.7	2152.1	2119.6	2106.6	2117.4	2126.1
40°	12499.1	10053.0	5268.7	2991.2	2359.7	2141.3	2050.4	2028.7	2022.3	2037.4	2050.4
42.5°	13580.6	10684.6	5022.2	2772.8	2242.9	2046.1	1963.9	1937.9	1931.5	1948.7	1966.0
45°	14750.7	11363.7	4849.2	2610.6	2152.1	1974.7	1888.2	1860.0	1847.1	1855.7	1875.2
47.5°	15814.9	12006.1	4780.0	2496.0	2065.5	1914.1	1821.2	1786.5	1764.9	1760.5	1775.7
50°	16712.4	12484.0	4812.4	2426.8	1996.3	1847.1	1756.2	1717.3	1684.9	1665.4	1676.2
52.5°	17365.6	12784.7	4842.7	2396.4	1942.3	1773.6	1684.9	1648.1	1604.9	1572.4	1572.4
55°	17839.3	12853.9	4775.6	2372.7	1901.2	1693.6	1604.9	1570.2	1527.0	1490.2	1485.9
57.5°	18025.3	12659.3	4526.9	2338.1	1873.1	1617.8	1520.5	1494.6	1457.8	1414.6	1412.3
60°	17774.4	12058.0	4046.7	2264.5	1836.3	1555.1	1436.2	1418.8	1401.5	1360.4	1358.3
62.5°	16766.5	10738.6	3426.0	2115.3	1762.8	1488.1	1358.3	1367.0	1369.1	1341.0	1336.7
65°	14938.9	8926.1	2820.4	1920.7	1652.5	1408.0	1278.3	1319.4	1343.1	1338.8	1332.3
67.5°	12282.9	6947.1	2390.0	1715.2	1507.5	1297.7	1191.7	1239.3	1258.8	1273.9	1269.6
70°	9116.5	4898.9	1976.8	1498.9	1332.3	1168.0	1079.3	1103.0	1090.1	1107.4	1113.9
72.5°	5082.7	2939.3	1611.3	1282.6	1150.6	1016.5	953.8	949.5	921.4	921.4	921.4
74°	3049.6	2156.3	1416.7	1148.5	1040.4	917.0	863.0	843.5	817.5	819.8	817.5
75°	2452.7	1853.6	1299.9	1059.8	962.5	858.7	804.6	778.6	759.1	759.1	757.0
77.5°	1548.6	1408.0	1046.8	843.5	770.0	707.2	670.5	635.9	635.9	633.7	631.6
80°	1170.1	1120.4	815.4	638.0	590.4	542.9	519.1	504.0	504.0	510.4	508.3
82.5°	802.4	843.5	573.2	445.6	421.7	387.2	382.9	385.0	378.5	369.8	367.7
85°	586.1	633.7	387.2	281.1	257.4	235.8	253.0	261.7	250.9	231.4	222.7
87.5°	225.0	415.3	207.6	116.8	108.2	93.0	108.2	112.4	121.1	95.2	97.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)