

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: P383391

Luminaire Tested: **GLEON-SA7A-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30708.5 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

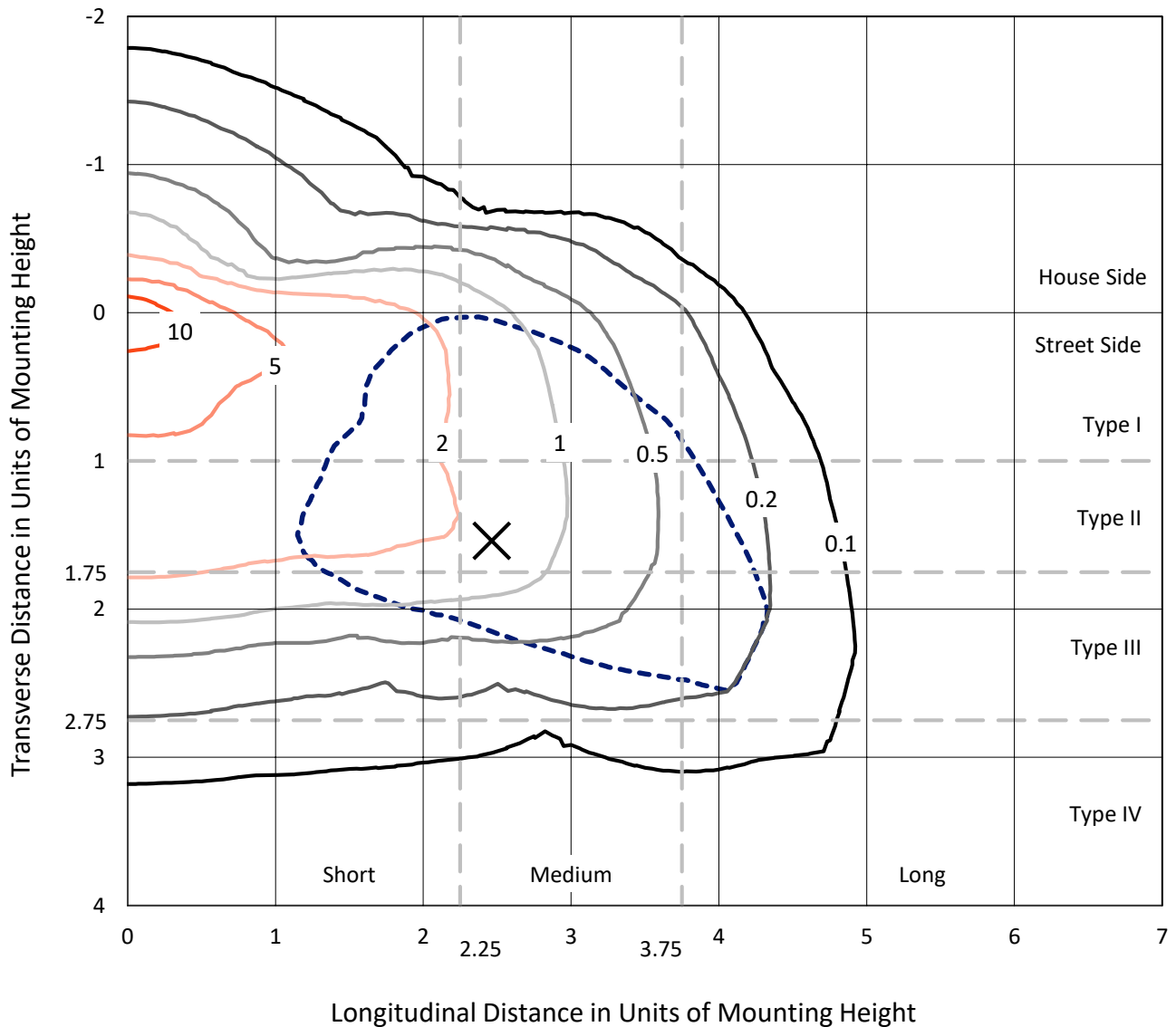
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

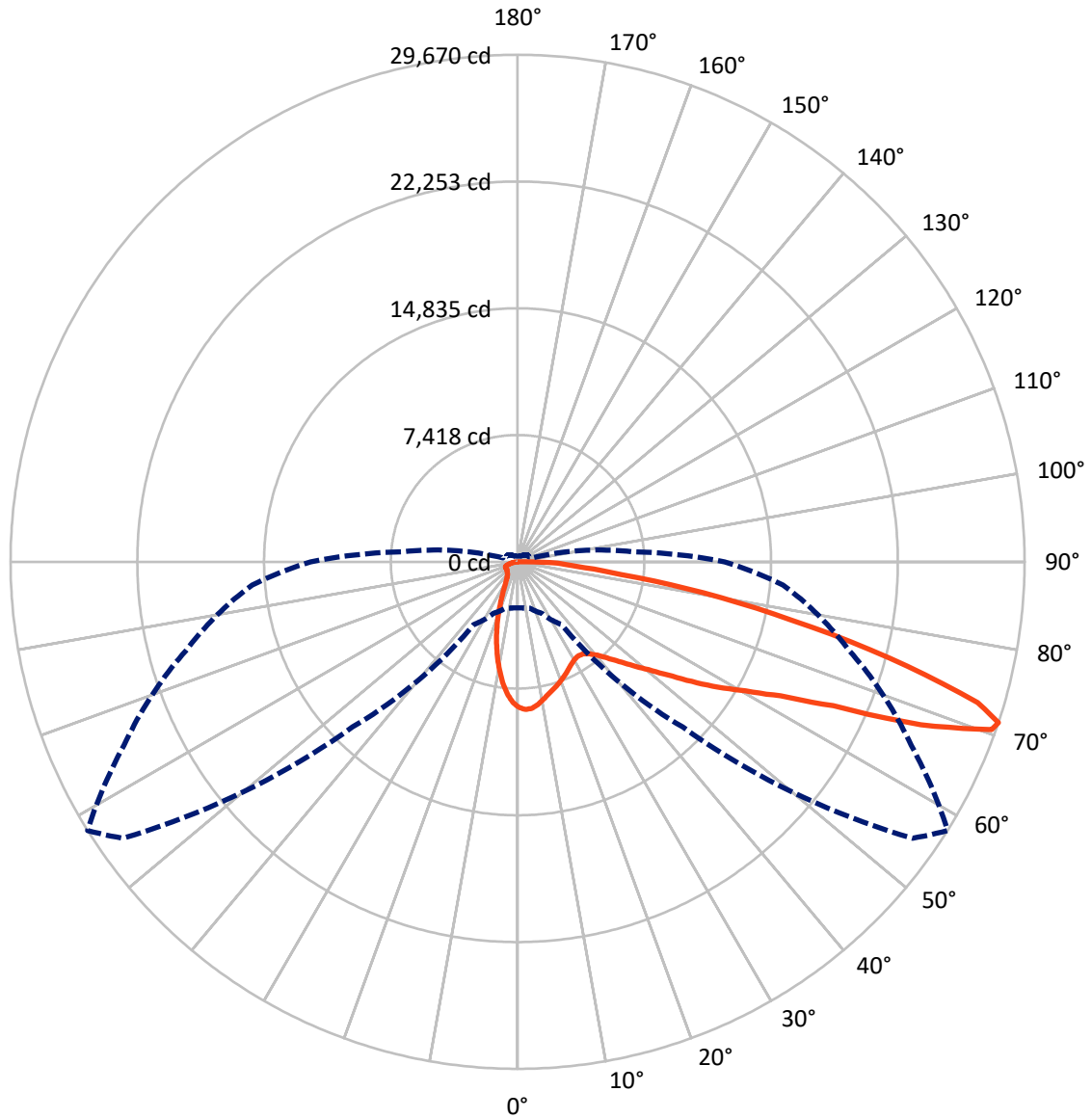
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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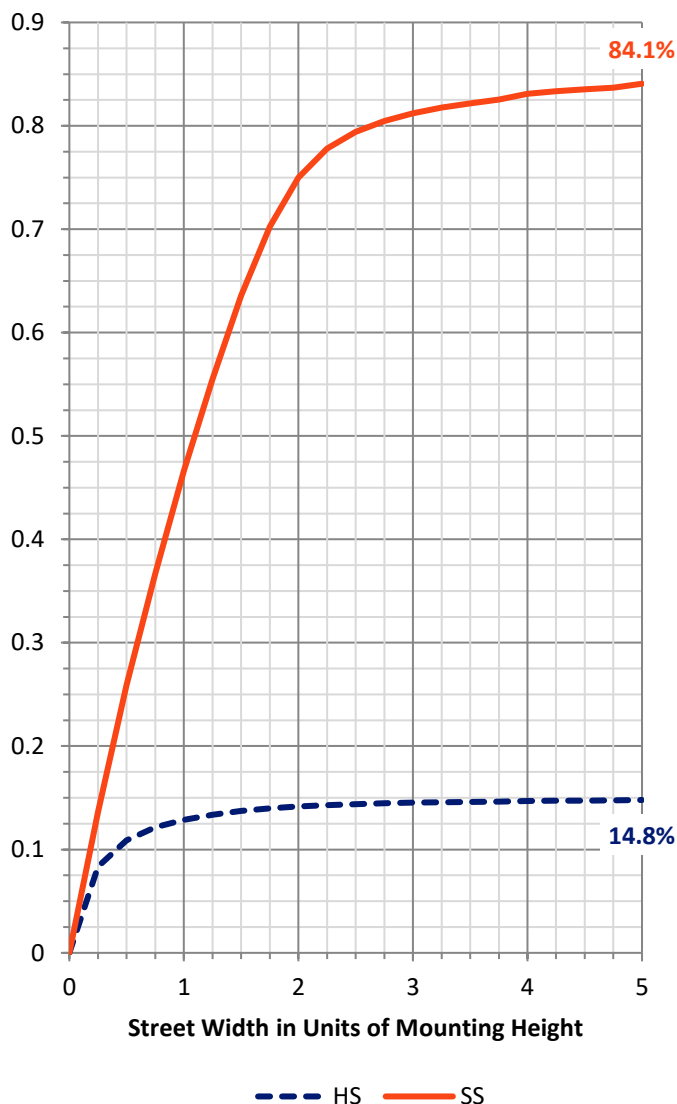
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4591.1	0.0	4591.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	26117.3	0.0	26117.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	30708.5	0.0	30708.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	734.0	2.4
10°-20°	1632.2	5.3
20°-30°	2074.3	6.8
30°-40°	2642.3	8.6
40°-50°	3746.8	12.2
50°-60°	5798.4	18.9
60°-70°	7893.8	25.7
70°-80°	5266.1	17.1
80°-90°	920.7	3.0
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°	30708.5	100.0
0°-180°	30708.5	100.0

Coefficient of Utilization

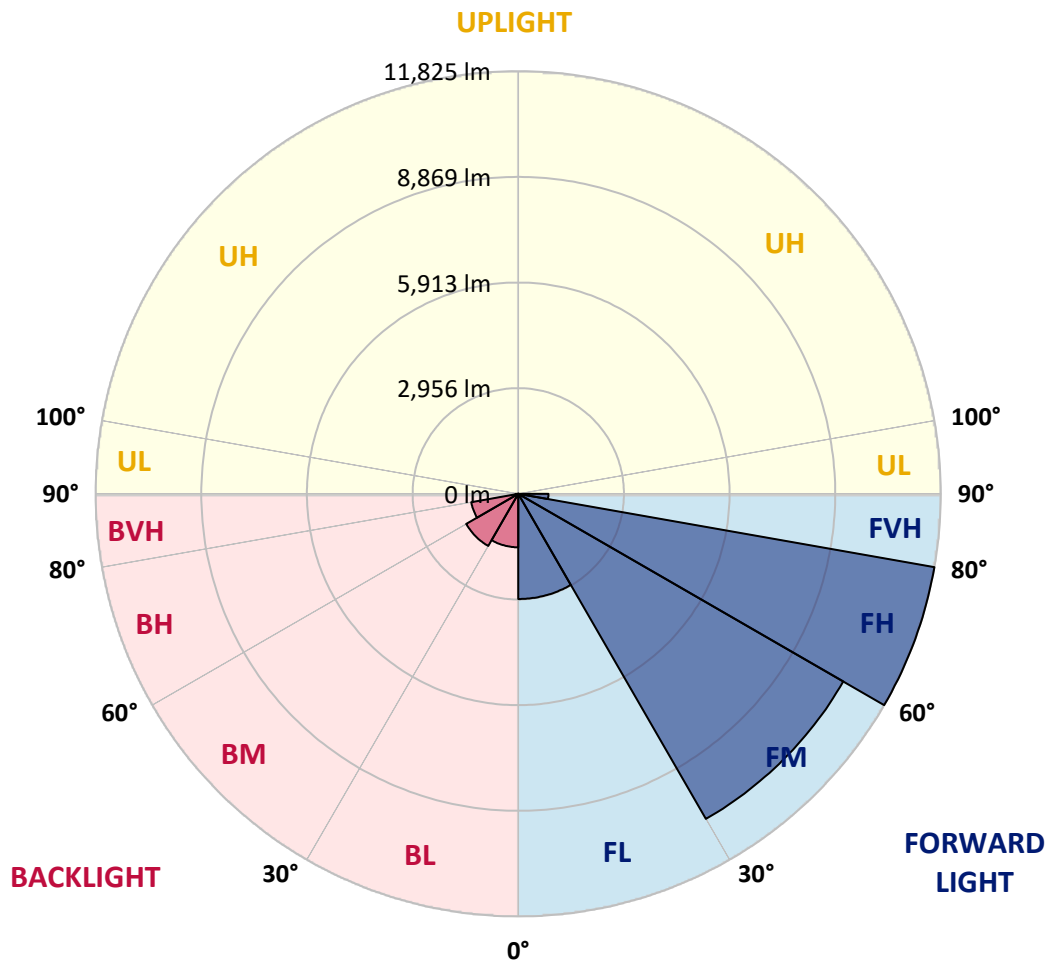


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.9	9.6			
FM (30°-60°)	10503.8	34.2			
FH (60°-80°)	11825.4	38.5			G4/12000
FVH (80°-90°)	844.2	2.7			G5
BL (0°-30°)	1496.6	4.9	B3/2500		
BM (30°-60°)	1683.7	5.5	B2/2500		
BH (60°-80°)	1334.4	4.3	B3/2500		G3/2500
BVH (80°-90°)	76.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3
2.5°	8734.0	8722.3	8726.6	8718.0	8697.7	8677.3	8647.4	8652.7	8610.9	8548.9	8472.0
5°	8569.3	8565.0	8597.1	8615.2	8630.2	8618.5	8609.9	8620.6	8559.6	8474.1	8340.3
7.5°	8223.8	8176.7	8217.4	8278.3	8336.0	8379.9	8437.7	8445.2	8406.7	8316.9	8141.4
10°	7732.8	7687.9	7747.8	7843.0	7958.5	8063.3	8179.9	8201.3	8208.8	8127.5	7914.6
12.5°	7223.6	7189.4	7249.3	7383.0	7574.5	7735.9	7922.1	7954.2	8020.5	7965.9	7704.9
15°	6767.9	6755.1	6827.8	6959.4	7179.7	7426.9	7695.3	7754.2	7866.5	7848.3	7541.3
17.5°	6374.3	6371.0	6426.7	6564.7	6808.6	7120.9	7469.6	7569.1	7735.9	7757.4	7406.5
20°	6081.1	6074.7	6113.3	6214.9	6466.2	6820.3	7225.7	7362.7	7603.4	7678.2	7267.5
22.5°	5923.9	5922.9	5923.9	5972.1	6177.5	6507.0	6988.3	7155.1	7473.9	7615.1	7113.4
25°	5897.2	5894.0	5870.4	5865.1	5981.7	6244.8	6753.0	6937.0	7350.9	7571.2	6966.9
27.5°	5966.7	5971.0	5940.0	5889.7	5913.3	6072.6	6548.6	6745.4	7252.5	7562.7	6865.2
30°	6111.1	6109.0	6082.3	6029.8	5983.8	6008.5	6403.2	6600.0	7186.1	7600.1	6795.7
32.5°	6270.5	6282.3	6277.0	6248.1	6179.6	6081.1	6359.3	6551.9	7167.0	7690.0	6765.7
35°	6462.0	6474.8	6513.3	6535.8	6455.5	6297.3	6453.4	6620.3	7222.6	7859.0	6813.9
37.5°	6643.8	6677.0	6785.0	6880.2	6811.8	6635.3	6703.7	6822.5	7394.7	8125.3	6943.4
40°	6853.5	6882.4	7058.9	7261.0	7250.3	7067.5	7107.0	7186.1	7698.6	8507.3	7177.6
42.5°	7059.9	7117.7	7373.4	7660.0	7742.4	7580.8	7644.0	7685.7	8126.4	9013.2	7586.2
45°	7334.8	7396.9	7752.1	8097.6	8290.1	8199.2	8299.7	8315.7	8664.5	9702.1	8179.9
47.5°	7750.9	7821.6	8235.5	8598.2	8892.3	8902.0	9067.8	9061.3	9336.2	10490.4	8927.6
50°	8399.2	8500.8	8839.9	9179.0	9536.3	9735.2	9956.7	9925.6	10141.7	11330.1	9788.7
52.5°	9248.5	9295.6	9547.0	9797.3	10241.2	10687.3	11004.9	10977.2	11055.2	12193.4	10766.5
55°	10128.9	10164.2	10267.9	10404.8	11001.8	11729.1	12400.9	12357.1	12159.1	13089.7	11732.4
57.5°	10920.4	10992.1	11063.8	11120.4	11767.7	12818.1	13828.9	13832.2	13357.2	14056.8	12730.3
60°	11043.5	11106.6	11580.4	12027.6	13078.0	14270.8	15357.5	15325.4	14597.0	15106.2	13842.8
62.5°	9762.0	9904.2	10695.8	11885.3	14340.2	16927.8	17307.6	17268.0	16079.5	16399.4	15138.2
65°	6995.7	7157.3	8112.5	9899.9	13728.4	19855.6	20826.8	20294.1	18101.3	17990.0	16655.0
67.5°	4035.9	4074.4	4488.4	5923.9	10453.0	20008.5	26195.6	25450.0	21240.8	19794.5	17397.4
70°	2984.4	2983.4	3081.7	3645.5	5656.5	16329.8	28749.0	29417.5	24546.1	20388.2	16348.0
71°	2698.8	2702.0	2812.2	3318.2	4479.8	13668.5	28206.6	29670.0	25416.8	20095.2	15588.5
72.5°	2308.4	2319.1	2472.0	2975.8	3768.5	9426.1	25870.4	28155.3	25829.8	19372.1	14400.1
75°	1751.1	1775.7	1987.5	2508.4	3444.4	4780.4	18987.0	22482.7	22945.9	17093.6	10700.1
77.5°	1249.4	1277.2	1516.8	2109.4	3274.3	3602.7	12715.3	16399.4	16886.1	10954.7	4826.4
80°	789.4	822.6	1003.4	1678.4	3076.4	3420.8	7990.5	11023.1	9207.9	3505.4	1228.0
82.5°	463.2	488.9	622.6	1096.4	2512.7	3294.6	4701.2	6110.0	3583.5	1059.0	558.4
85°	268.5	280.3	388.3	698.5	1824.9	3109.6	3454.0	3415.5	1555.3	517.8	264.2
87.5°	125.2	139.1	230.0	364.8	1013.0	2253.8	2729.8	2358.7	967.0	242.9	124.1
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°	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3	8508.3
2.5°	8434.5	8416.3	8340.3	8273.0	8202.4	8110.3	8008.8	7995.9	7933.9	7945.6	7924.2
5°	8267.6	8221.7	8038.7	7872.9	7677.2	7501.8	7311.3	7223.6	7097.4	7088.8	7056.8
7.5°	8029.1	7943.5	7660.0	7345.5	7031.0	6731.5	6435.2	6240.5	6041.6	5957.1	5949.6
10°	7760.6	7615.1	7198.0	6732.6	6279.1	5841.5	5418.0	5104.5	4822.2	4688.5	4683.1
12.5°	7506.0	7291.0	6718.7	6085.4	5465.0	4898.1	4317.3	3905.4	3551.3	3432.7	3382.4
15°	7289.9	6987.2	6252.4	5442.6	4689.5	3902.3	3241.1	2808.0	2480.6	2367.2	2345.8
17.5°	7080.2	6690.9	5774.2	4793.3	3883.0	3017.6	2355.4	2033.5	1859.1	1813.2	1812.0
20°	6871.7	6386.0	5274.6	4129.0	3103.2	2257.0	1811.0	1666.5	1607.8	1602.4	1593.9
22.5°	6635.3	6063.0	4749.4	3462.6	2421.7	1774.6	1539.3	1481.5	1474.0	1493.3	1493.3
25°	6413.9	5742.1	4216.7	2810.1	1883.7	1480.4	1374.6	1362.8	1383.1	1417.3	1420.5
27.5°	6207.4	5433.0	3696.8	2230.3	1509.3	1304.0	1260.1	1274.0	1310.4	1349.9	1351.0
30°	6037.4	5140.9	3191.9	1757.5	1275.1	1172.4	1164.9	1192.7	1232.3	1263.3	1270.8
32.5°	5905.7	4891.6	2704.2	1413.1	1122.1	1074.0	1080.4	1103.9	1128.5	1145.6	1157.4
35°	5844.8	4677.8	2253.8	1191.6	1024.8	998.1	1006.5	1019.4	1030.1	1043.0	1052.6
37.5°	5855.4	4512.0	1851.6	1053.7	959.5	945.6	945.6	945.6	945.6	952.0	953.1
40°	5954.9	4416.7	1524.3	965.9	915.6	900.7	888.9	878.2	869.7	874.0	871.8
42.5°	6209.5	4408.2	1284.7	910.3	880.3	855.7	832.2	817.2	806.5	810.8	813.0
45°	6641.7	4515.1	1123.2	870.7	847.1	809.8	779.8	763.8	756.2	770.2	772.3
47.5°	7201.1	4748.4	1024.8	841.8	816.1	766.9	734.9	719.9	722.0	742.4	747.8
50°	7922.1	5127.1	977.7	823.7	794.8	730.6	697.4	684.6	691.0	719.9	726.3
52.5°	8713.7	5672.6	983.1	818.3	780.9	703.9	668.6	653.6	664.3	691.0	696.3
55°	9627.2	6328.3	1071.8	825.8	760.5	686.7	645.0	619.4	627.9	652.5	656.8
57.5°	10642.3	7079.2	1250.5	823.7	734.9	670.7	620.4	581.9	588.4	603.3	607.6
60°	11699.2	7986.3	1527.6	830.1	723.1	651.4	587.2	539.1	536.9	549.8	551.9
62.5°	12967.8	9035.6	1844.2	834.4	730.6	626.8	543.4	496.3	489.9	493.2	495.3
65°	14274.9	9795.1	1725.4	817.2	754.1	606.5	504.9	454.6	442.9	440.7	441.7
67.5°	14315.7	8981.1	1209.8	783.0	763.8	595.8	476.0	419.3	400.1	392.6	391.5
70°	12838.4	7296.3	942.4	746.6	725.2	578.7	449.3	390.4	361.5	349.8	348.7
71°	12117.4	6716.6	893.2	728.5	696.3	561.6	437.5	377.6	347.7	334.8	332.7
72.5°	10986.8	6021.2	833.3	699.6	640.7	517.8	415.0	359.4	328.4	313.4	310.2
75°	7884.7	3937.6	715.6	623.7	530.6	412.9	363.7	323.1	296.3	278.2	276.0
77.5°	3037.9	1567.0	541.2	518.8	406.5	323.1	299.5	279.2	259.9	241.7	240.7
80°	939.2	700.6	394.7	390.4	294.2	240.7	233.2	227.9	220.3	201.1	196.8
82.5°	501.6	402.2	271.7	252.4	192.6	160.4	169.0	171.1	172.2	151.9	149.8
85°	239.6	212.9	153.0	143.4	112.3	89.9	103.8	112.3	113.4	93.1	86.6
87.5°	114.5	111.2	71.6	54.6	41.7	30.0	36.3	44.9	49.2	35.3	31.0
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)