

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: P319494

Luminaire Tested: **GLEON-SA0C-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50417 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

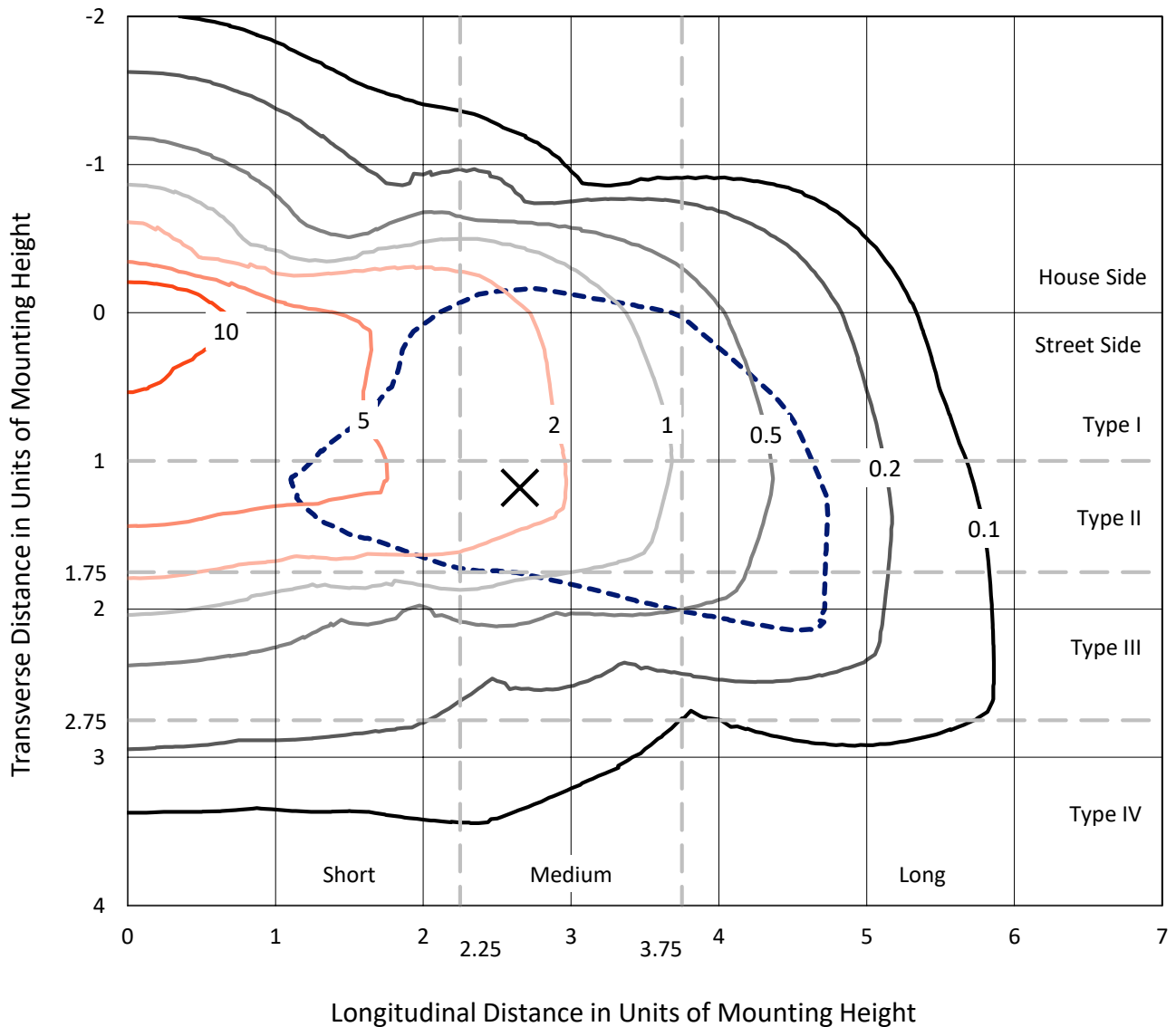
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

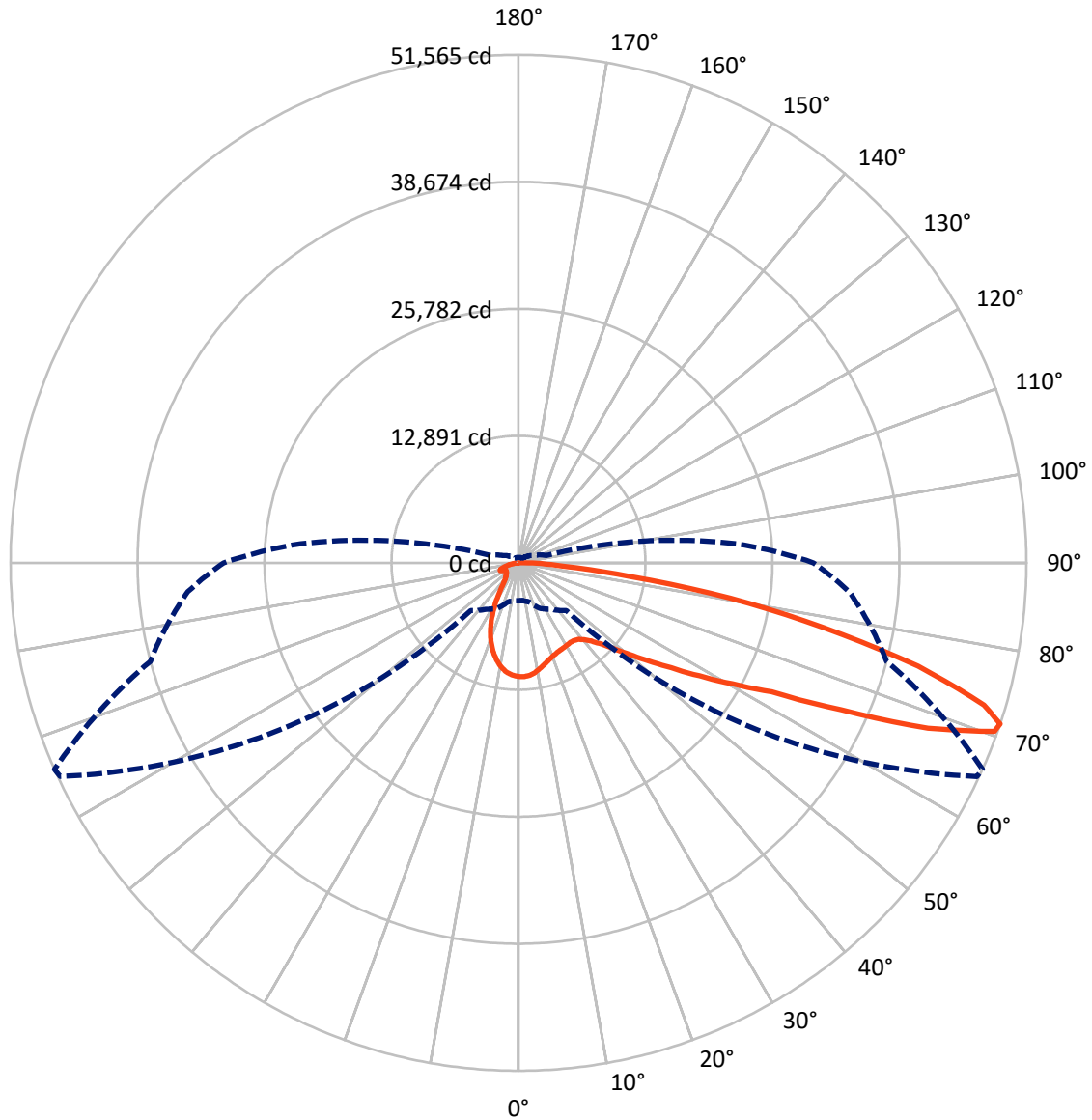
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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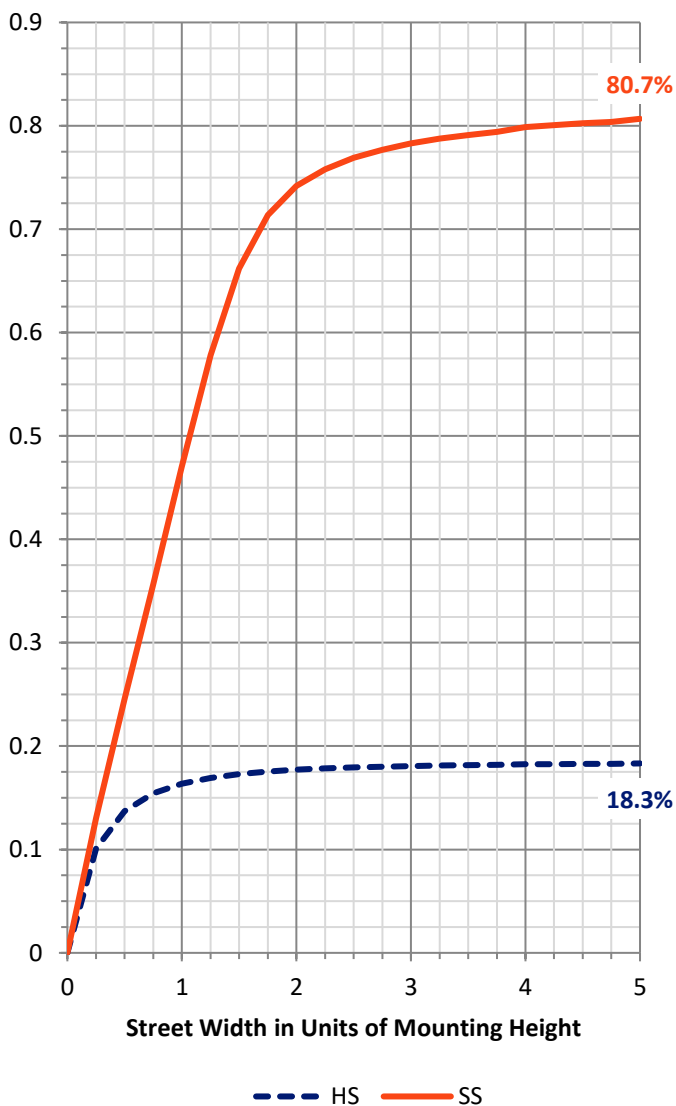
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9343.6	0.0	9343.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	41073.4	0.0	41073.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	50417.0	0.0	50417.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1016.6	2.0
10°-20°	2438.3	4.8
20°-30°	3275.3	6.5
30°-40°	4308.6	8.5
40°-50°	6267.9	12.4
50°-60°	9791.1	19.4
60°-70°	12264.9	24.3
70°-80°	9355.4	18.6
80°-90°	1698.8	3.4
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°	50417.0	100.0
0°-180°	50417.0	100.0

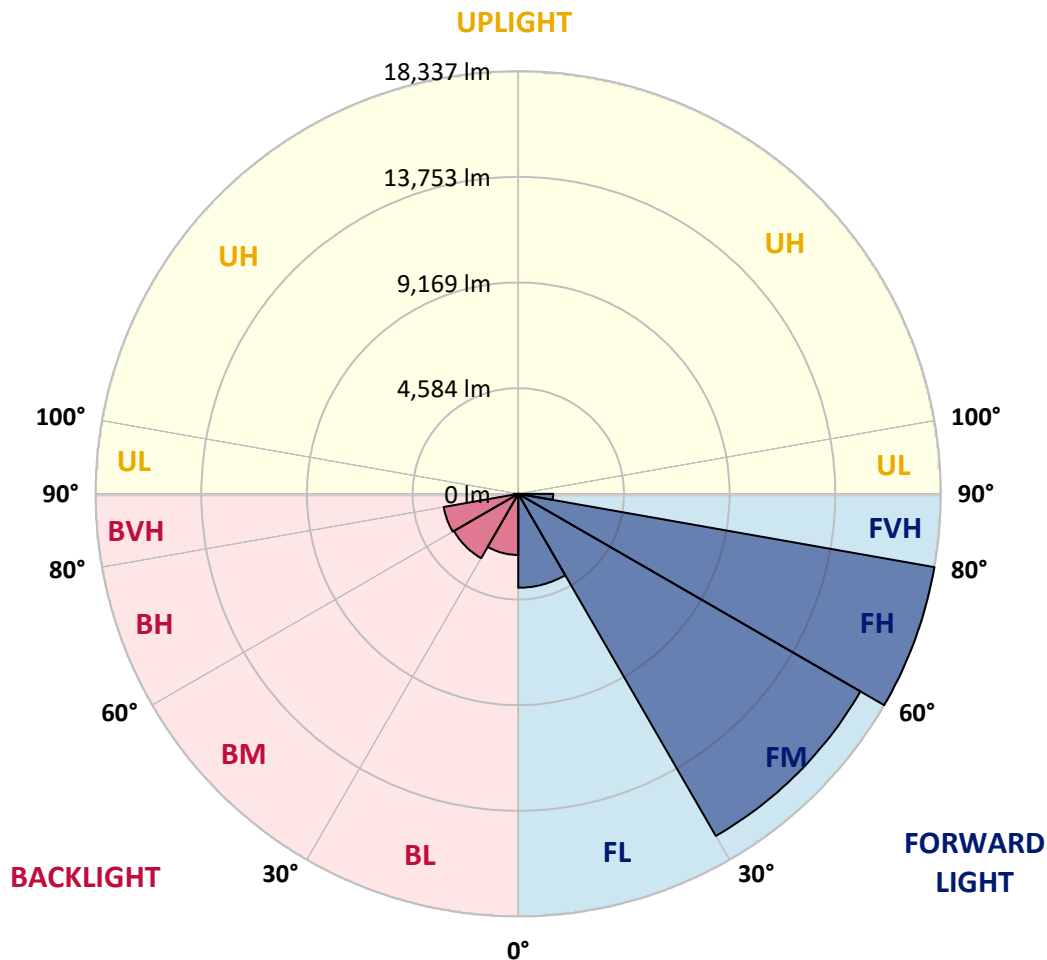


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4076.9	8.1			
FM (30°-60°)	17144.3	34.0			
FH (60°-80°)	18337.2	36.4			G5
FVH (80°-90°)	1514.9	3.0			G5
BL (0°-30°)	2653.3	5.3	B4/5000		
BM (30°-60°)	3223.3	6.4	B3/5000		
BH (60°-80°)	3283.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	183.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6
2.5°	11335.5	11318.0	11370.3	11424.2	11445.1	11479.9	11532.2	11561.7	11560.0	11565.2	11547.8
5°	10583.5	10560.8	10665.3	10750.6	10914.2	11098.7	11323.3	11483.4	11486.9	11577.4	11601.8
7.5°	9871.5	9855.9	9976.0	10113.5	10303.2	10585.2	10949.0	11293.7	11314.6	11560.0	11645.3
10°	9300.6	9297.1	9413.7	9563.4	9784.5	10099.6	10517.3	11022.1	11053.5	11476.4	11652.3
12.5°	8855.0	8861.9	8962.9	9133.5	9366.7	9695.7	10148.3	10717.5	10768.0	11344.2	11612.2
15°	8526.0	8553.8	8635.6	8808.0	9037.7	9371.9	9836.7	10435.5	10512.1	11196.2	11589.6
17.5°	8338.0	8369.3	8426.7	8569.5	8785.3	9107.4	9547.8	10204.0	10273.6	11083.1	11591.3
20°	8282.3	8308.4	8341.4	8428.5	8611.3	8903.7	9319.7	9995.1	10070.0	10992.5	11608.7
22.5°	8391.9	8411.1	8414.6	8407.6	8519.0	8757.5	9154.4	9841.9	9922.0	10933.4	11620.9
25°	8626.9	8653.0	8633.9	8569.5	8532.9	8679.1	9069.1	9741.0	9821.0	10889.8	11596.6
27.5°	8980.3	8983.8	8968.1	8884.5	8712.2	8687.8	9042.9	9681.8	9758.4	10839.4	11546.1
30°	9460.7	9483.3	9455.5	9342.3	9060.4	8827.1	9074.3	9624.3	9694.0	10774.9	11464.3
32.5°	10023.0	10078.7	10076.9	9958.6	9554.7	9138.7	9203.1	9589.5	9643.5	10707.1	11365.0
35°	10606.1	10682.7	10825.4	10774.9	10275.4	9631.3	9450.3	9645.2	9681.8	10698.4	11295.4
37.5°	11211.9	11288.5	11582.6	11718.4	11133.5	10336.3	9840.2	9841.9	9859.3	10804.5	11290.2
40°	11845.5	11927.3	12369.4	12722.8	12245.8	11229.3	10468.6	10252.7	10233.6	11065.6	11392.9
42.5°	12733.2	12806.3	13337.3	13788.1	13480.0	12372.9	11337.2	10886.4	10846.3	11577.4	11721.9
45°	13856.0	13918.7	14482.6	14964.8	14806.4	13678.4	12428.6	11758.4	11751.5	12430.4	12388.6
47.5°	15191.1	15239.8	15746.4	16212.9	16270.3	15180.7	13800.3	13104.0	12990.9	13600.1	13420.8
50°	16581.9	16635.9	16980.5	17481.9	17908.3	17191.2	15565.4	14752.5	14601.0	15144.1	14883.0
52.5°	17502.8	17574.1	17873.5	18508.9	19750.0	19394.9	17652.5	16750.8	16521.0	17015.4	16815.2
55°	17092.0	17252.1	17709.9	18728.2	21222.6	22761.4	20227.0	19081.6	18822.2	19233.0	19114.7
57.5°	15224.2	15443.5	16068.4	17640.3	21429.8	25727.6	24119.2	21826.7	21643.9	21525.5	21579.5
60°	11810.7	12021.3	12795.9	14844.7	19986.7	27893.0	29976.6	25210.6	24946.0	23826.7	23875.5
62.5°	8358.9	8252.7	8783.6	10282.3	16240.8	28147.2	36641.8	29736.4	28866.1	26256.8	26042.6
65°	6374.5	6350.1	6588.6	7065.5	9836.7	25106.1	40612.3	37343.3	35983.8	29115.0	28610.2
67.5°	5237.8	5194.3	5429.2	6123.8	6334.4	16197.2	40699.4	46168.6	44833.5	32673.0	31579.8
70°	4306.5	4257.8	4477.1	5373.5	5854.0	8214.4	34253.5	51336.8	51265.4	37177.9	33821.8
71°	3860.9	3826.1	4088.9	5084.6	5751.3	6846.2	29574.5	51350.7	51564.8	38702.8	33689.5
72.5°	3143.7	3155.9	3434.4	4525.8	5674.7	6045.5	21736.1	48957.2	49409.8	40156.3	32486.7
75°	2088.8	2099.3	2464.8	3481.4	5502.4	5914.9	11946.4	41080.6	41912.6	39285.9	29644.2
77.5°	1403.0	1399.5	1648.4	2388.2	4793.9	5914.9	7004.6	30725.1	31639.0	31259.5	22853.7
80°	966.1	959.1	1134.9	1648.4	3629.4	5986.3	5415.3	21532.5	21809.3	16881.3	9288.4
82.5°	591.8	597.1	741.5	1164.5	2470.1	5387.5	5112.4	11741.0	11439.9	4734.7	2320.4
85°	339.4	337.7	473.5	788.5	1585.8	4546.7	4985.4	5053.3	4635.5	1425.6	839.0
87.5°	121.8	130.6	254.1	436.9	908.6	3166.3	4229.9	2628.5	2369.1	644.1	379.5
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°	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6	11549.6
2.5°	11535.6	11546.1	11533.9	11464.3	11405.1	11309.3	11255.4	11180.5	11157.9	11147.5	11175.3
5°	11579.2	11582.6	11479.9	11297.2	11091.8	10849.8	10675.7	10461.6	10360.7	10317.1	10345.0
7.5°	11619.2	11603.5	11379.0	11029.1	10649.6	10228.4	9854.1	9511.2	9311.0	9229.2	9236.2
10°	11624.4	11558.3	11197.9	10656.6	10068.2	9450.3	8875.8	8346.7	8012.5	7794.9	7861.0
12.5°	11570.4	11459.0	10931.6	10174.4	9358.0	8515.5	7739.2	6945.4	6468.4	6247.4	6254.3
15°	11528.7	11326.7	10604.4	9606.9	8510.3	7394.5	6334.4	5401.4	4893.1	4666.8	4560.6
17.5°	11493.9	11184.0	10224.9	8968.1	7509.4	6094.2	4820.0	3987.9	3709.4	3643.3	3615.4
20°	11445.1	11032.6	9801.9	8228.3	6369.2	4639.0	3519.7	3108.9	3110.6	3187.2	3197.7
22.5°	11377.2	10860.2	9351.1	7398.0	5145.5	3378.7	2759.0	2640.6	2760.8	2907.0	2933.1
25°	11276.3	10656.6	8849.7	6480.6	3923.5	2597.1	2356.9	2351.7	2497.9	2651.1	2673.7
27.5°	11133.5	10390.3	8292.7	5495.4	2891.3	2207.2	2111.5	2148.0	2255.9	2367.4	2376.1
30°	10942.1	10080.4	7678.2	4456.2	2266.4	1965.3	1954.8	1987.9	2054.0	2132.4	2139.3
32.5°	10731.4	9765.3	7022.0	3450.1	1940.9	1834.7	1845.1	1860.8	1892.1	1923.5	1930.4
35°	10540.0	9443.3	6350.1	2621.5	1786.0	1749.4	1742.4	1739.0	1742.4	1732.0	1733.7
37.5°	10416.4	9177.0	5650.3	2087.1	1697.2	1674.6	1653.7	1627.6	1598.0	1580.6	1584.0
40°	10371.1	8978.5	4941.9	1803.4	1624.1	1608.4	1568.4	1512.7	1477.9	1467.4	1467.4
42.5°	10493.0	8875.8	4257.8	1660.6	1563.2	1537.0	1470.9	1406.5	1380.4	1378.6	1376.9
45°	10865.5	8917.6	3606.7	1582.3	1507.4	1457.0	1369.9	1316.0	1298.6	1302.0	1300.3
47.5°	11533.9	9180.5	3049.7	1530.1	1451.7	1385.6	1288.1	1244.6	1223.7	1223.7	1225.5
50°	12670.6	9794.9	2605.8	1486.6	1404.7	1319.5	1228.9	1175.0	1147.1	1145.4	1145.4
52.5°	14326.0	10895.1	2329.1	1450.0	1352.5	1260.3	1169.8	1101.9	1068.8	1061.8	1058.3
55°	16400.9	12472.1	2252.5	1425.6	1282.9	1195.9	1098.4	1030.5	993.9	978.3	976.5
57.5°	18721.3	14390.4	2403.9	1396.0	1211.5	1119.3	1020.1	955.6	917.4	898.2	896.5
60°	21069.5	16484.4	3021.9	1354.3	1152.3	1035.7	940.0	880.8	842.5	821.6	818.1
62.5°	23421.1	18691.7	4283.9	1350.8	1110.6	955.6	858.2	807.7	771.1	748.5	743.3
65°	26074.0	21107.8	5718.2	1443.0	1096.6	882.5	774.6	734.6	703.2	682.4	680.6
67.5°	29120.2	23835.4	5580.7	1632.8	1143.6	816.4	696.3	664.9	642.3	624.9	623.2
70°	30549.3	23409.0	3469.2	1766.8	1209.8	752.0	621.4	598.8	581.4	569.2	564.0
71°	29950.5	22227.0	2908.7	1751.1	1202.8	724.1	591.8	574.4	557.0	546.6	541.4
72.5°	28317.7	20270.5	2426.5	1629.3	1124.5	673.7	553.5	536.1	520.5	508.3	504.8
75°	25410.8	18103.3	1942.6	1302.0	896.5	569.2	485.7	466.5	454.3	447.4	440.4
77.5°	18679.5	12919.5	1502.2	1028.8	659.7	464.8	414.3	400.4	388.2	377.7	372.5
80°	7156.0	5004.5	1011.3	767.6	483.9	367.3	334.2	327.3	315.1	308.1	308.1
82.5°	1927.0	1495.3	539.6	464.8	323.8	268.1	255.9	252.4	242.0	228.0	229.8
85°	779.8	659.7	302.9	255.9	198.4	158.4	172.3	174.1	161.9	144.5	146.2
87.5°	342.9	280.3	168.8	113.1	87.0	60.9	78.3	78.3	71.4	59.2	54.0
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)