

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: P317567

Luminaire Tested: **GLEON-SA3C-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16538 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

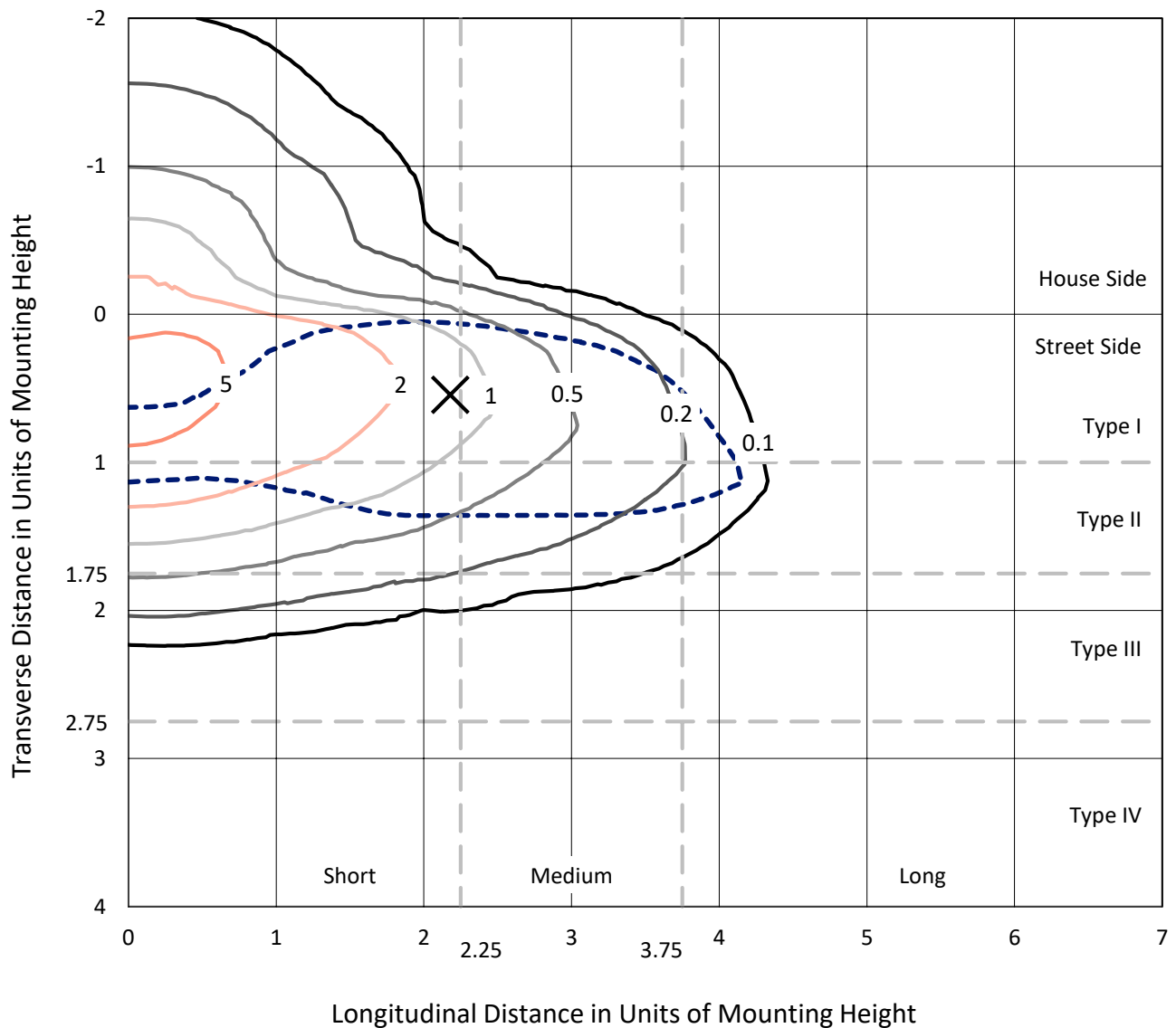
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

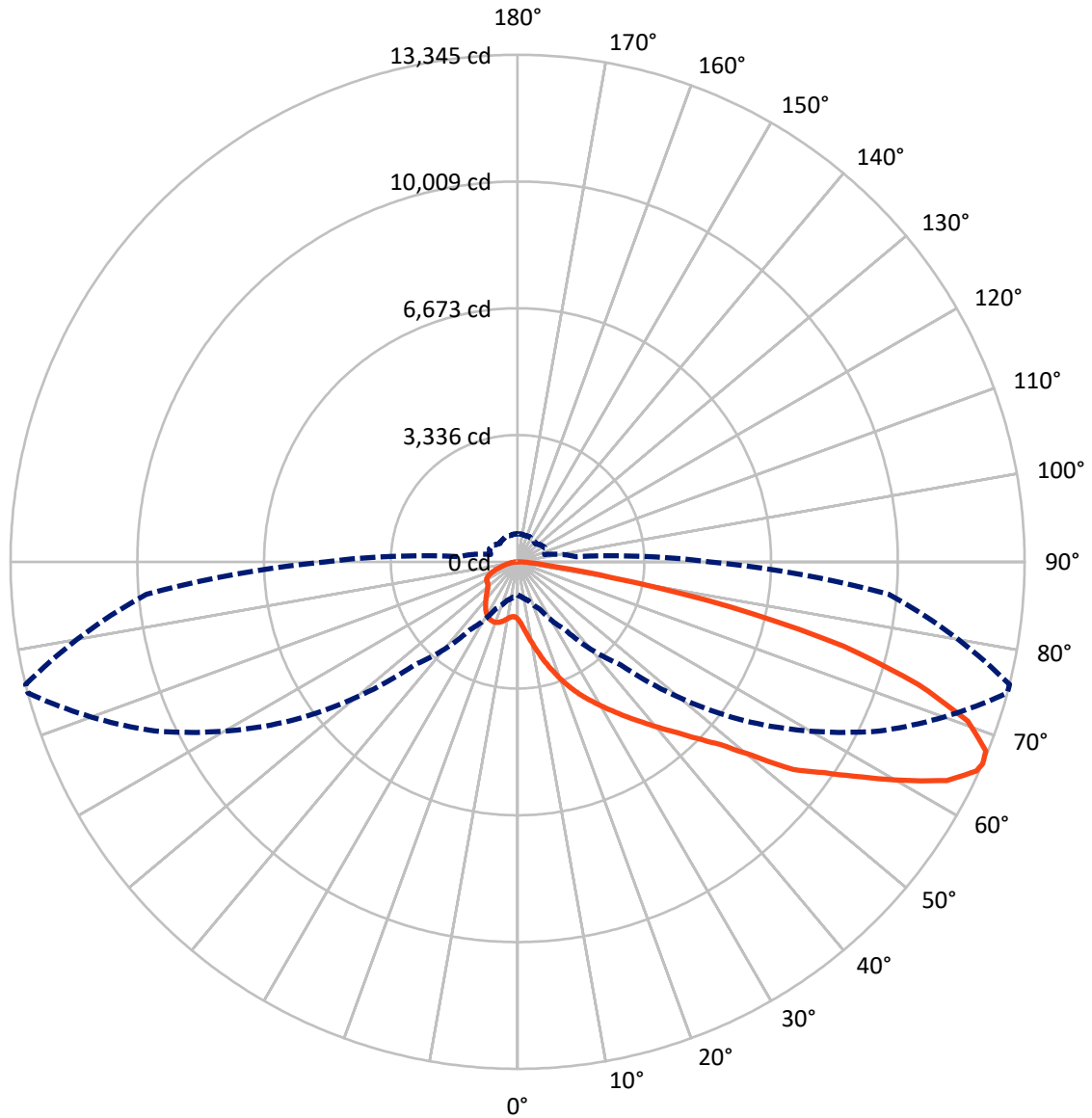
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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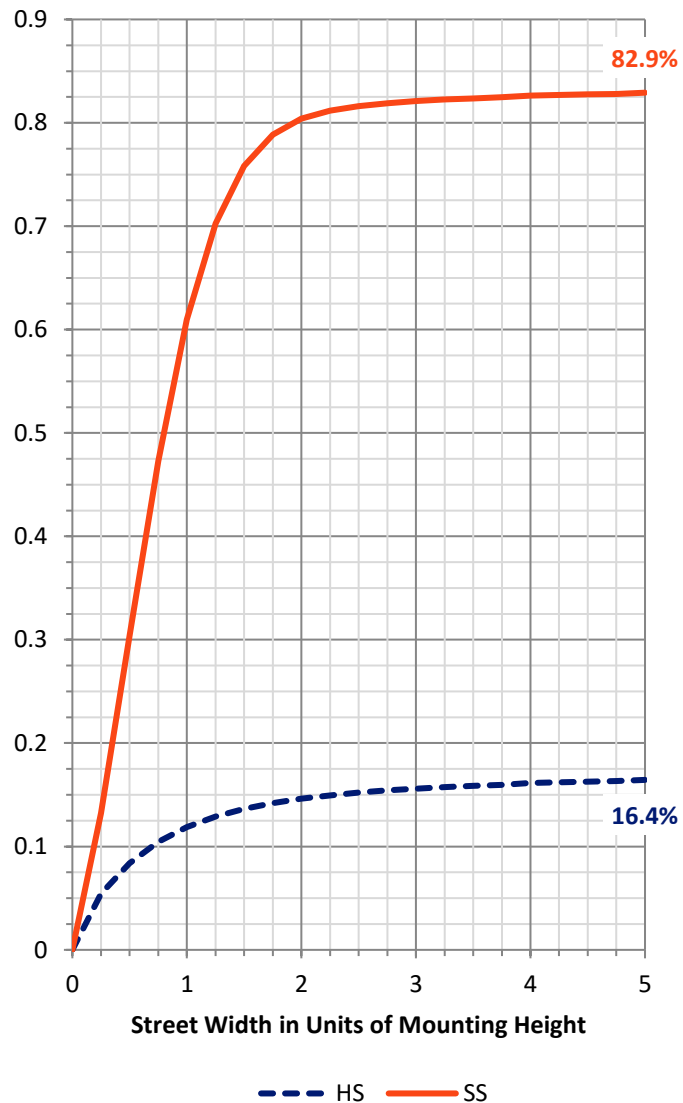
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2782.8	0.0	2782.8
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	13755.2	0.0	13755.2
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	16538.0	0.0	16538.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.6	1.1
10°-20°	721.2	4.4
20°-30°	1401.5	8.5
30°-40°	2287.6	13.8
40°-50°	3125.3	18.9
50°-60°	3640.4	22.0
60°-70°	3263.7	19.7
70°-80°	1649.3	10.0
80°-90°	266.3	1.6
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°	16538.0	100.0
0°-180°	16538.0	100.0

**Coefficient of Utilization**



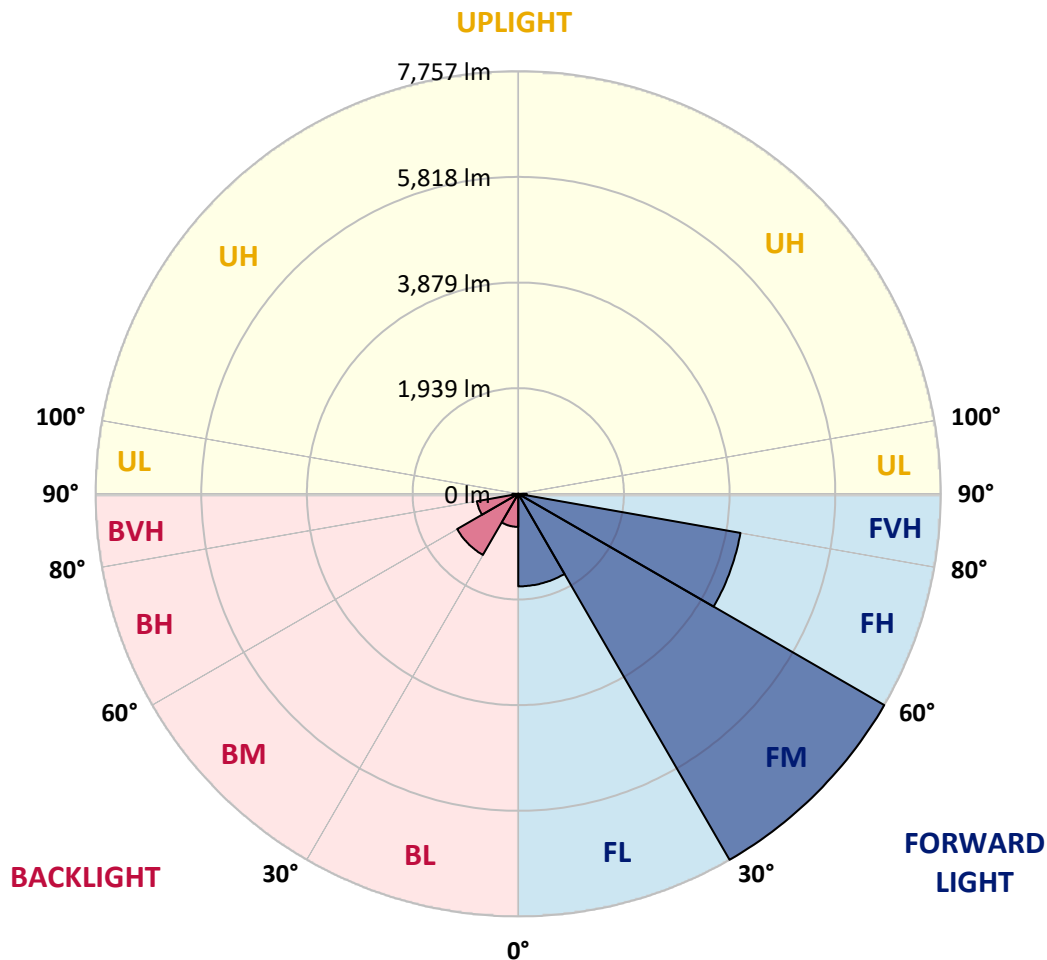
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1698.4	10.3			
FM (30°-60°)	7757.5	46.9			
FH (60°-80°)	4142.1	25.0			G2/5000
FVH (80°-90°)	157.3	1.0			G2/225
BL (0°-30°)	606.9	3.7	B2/1000		
BM (30°-60°)	1295.8	7.8	B2/2500		
BH (60°-80°)	771.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	109.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3
2.5°	2004.9	1974.6	1971.8	1927.4	1917.3	1832.6	1770.2	1705.1	1631.0	1616.4	1558.0
5°	2575.4	2572.6	2533.8	2461.4	2404.7	2259.8	2116.7	1965.1	1798.9	1771.9	1640.5
7.5°	3088.5	3084.0	3054.3	2976.2	2894.3	2716.3	2511.9	2279.5	2010.0	1970.1	1752.3
10°	3478.2	3476.5	3466.4	3409.1	3339.5	3168.8	2943.1	2625.9	2255.3	2200.9	1892.1
12.5°	3779.1	3782.5	3789.2	3769.0	3735.9	3590.5	3359.1	2993.1	2517.0	2463.1	2047.6
15°	3982.9	3993.0	4027.8	4056.5	4073.9	3984.6	3760.6	3368.7	2810.0	2745.5	2220.0
17.5°	4085.6	4096.9	4157.0	4243.4	4323.1	4314.2	4136.2	3726.9	3091.3	3029.0	2405.2
20°	4174.4	4182.8	4250.2	4354.0	4494.9	4557.3	4457.3	4071.6	3399.6	3325.5	2601.7
22.5°	4431.5	4442.2	4462.4	4521.3	4646.0	4760.5	4712.2	4397.8	3682.0	3612.9	2788.1
25°	4927.8	4940.7	4896.9	4847.0	4870.6	4950.3	4959.3	4695.4	3968.3	3890.3	2988.6
27.5°	5525.8	5544.3	5469.6	5341.0	5228.8	5197.9	5187.2	4939.0	4241.7	4151.3	3186.8
30°	6111.4	6143.4	6046.2	5879.5	5673.4	5528.6	5421.3	5177.7	4511.2	4424.8	3373.7
32.5°	6683.5	6670.6	6529.6	6366.8	6125.4	5944.0	5684.7	5433.7	4814.4	4715.0	3559.6
35°	7075.4	7079.8	6949.0	6755.9	6525.7	6386.5	6037.2	5709.9	5123.8	5032.2	3770.7
37.5°	7408.9	7388.1	7239.9	7059.6	6861.4	6801.9	6449.9	6014.2	5458.9	5359.0	3995.3
40°	7520.0	7495.9	7398.7	7269.1	7110.2	7105.1	6905.2	6358.9	5837.9	5739.1	4248.5
42.5°	7452.6	7421.8	7381.9	7346.5	7297.7	7320.1	7333.1	6763.2	6254.5	6143.9	4541.5
45°	7203.9	7157.3	7185.4	7262.3	7368.4	7495.3	7719.3	7210.7	6721.1	6628.4	4885.7
47.5°	6821.6	6779.5	6867.1	7031.6	7320.1	7641.3	8084.8	7704.7	7278.0	7186.0	5375.9
50°	6283.7	6296.1	6421.3	6720.5	7156.8	7708.7	8535.1	8358.8	8087.6	8001.7	6044.5
52.5°	5401.1	5403.4	5756.0	6247.2	6867.1	7673.9	8785.0	9194.8	9193.1	9089.3	6681.2
55°	4581.4	4631.4	4910.4	5563.4	6397.7	7534.6	8959.6	9601.3	9919.1	9797.2	7274.7
57.5°	3780.8	3810.0	4074.4	4730.2	5727.9	7163.5	9138.7	10089.2	10755.6	10678.7	8012.4
60°	2870.1	2915.0	3188.5	3794.3	4871.1	6504.9	9155.5	10598.4	11755.6	11678.1	8836.1
62.5°	1862.9	1940.4	2196.4	2764.0	3834.7	5557.8	8764.7	10931.4	12703.3	12675.8	9567.1
65°	1070.7	1129.1	1307.0	1745.0	2645.5	4368.6	7835.6	10803.4	13286.6	13270.9	9840.5
66°	874.7	911.2	1047.7	1363.8	2182.9	3836.4	7295.4	10533.3	13344.5	13345.0	9809.0
67.5°	699.6	715.8	777.0	976.4	1610.8	3040.8	6330.3	9937.6	13272.6	13292.3	9606.4
70°	578.9	587.3	606.4	654.6	879.2	1833.7	4493.3	8389.7	12551.1	12566.3	8815.3
72.5°	519.3	524.4	531.7	538.4	620.4	1024.6	2744.4	6711.5	11004.4	11024.0	7609.9
75°	470.5	473.3	472.2	472.7	520.5	653.0	1418.2	5010.9	8897.8	8858.5	5829.5
77.5°	413.2	416.0	410.4	411.5	460.4	501.9	705.7	3507.9	6004.7	5727.3	3284.5
80°	349.2	351.5	349.2	353.2	400.9	379.0	410.4	1973.5	2655.1	2511.4	1167.8
82.5°	263.9	273.4	280.2	295.9	330.1	269.5	274.5	768.6	808.5	769.7	358.2
85°	115.7	140.9	211.1	226.3	248.2	161.7	180.2	313.3	329.0	318.9	130.3
87.5°	30.3	33.1	104.4	131.4	137.6	73.0	93.8	142.6	150.5	142.6	43.2
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°	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3	1510.3
2.5°	1527.1	1499.6	1450.2	1406.4	1373.3	1350.8	1328.4	1317.2	1310.4	1303.7	1304.8
5°	1576.0	1520.4	1435.6	1375.5	1341.9	1320.5	1309.3	1304.8	1302.0	1295.3	1295.3
7.5°	1649.5	1570.9	1454.1	1392.4	1366.0	1349.7	1343.0	1340.7	1337.4	1329.5	1330.6
10°	1742.2	1632.1	1492.9	1432.8	1408.7	1390.7	1381.2	1377.8	1371.6	1362.6	1363.8
12.5°	1851.1	1707.9	1544.0	1481.1	1451.9	1427.8	1412.0	1402.5	1391.8	1380.0	1380.6
15°	1970.1	1790.5	1599.0	1524.3	1484.5	1450.8	1425.5	1409.2	1392.4	1377.8	1377.2
17.5°	2090.8	1870.2	1641.1	1547.9	1494.0	1449.7	1415.4	1390.1	1369.4	1351.4	1349.7
20°	2221.1	1942.0	1664.7	1545.7	1476.0	1423.3	1377.8	1346.3	1323.3	1305.4	1302.6
22.5°	2353.6	2009.4	1668.6	1522.6	1436.2	1371.6	1323.9	1289.1	1265.5	1247.0	1240.2
25°	2474.9	2061.6	1652.3	1478.3	1380.6	1311.0	1264.4	1229.0	1209.9	1188.0	1181.3
27.5°	2585.5	2098.1	1619.8	1421.6	1318.3	1249.8	1206.0	1175.7	1154.9	1138.1	1132.4
30°	2684.8	2117.8	1566.4	1354.2	1254.3	1192.0	1154.9	1134.1	1116.2	1094.8	1090.9
32.5°	2779.2	2117.8	1497.9	1280.7	1190.8	1140.9	1119.0	1106.1	1085.8	1065.1	1059.5
35°	2873.5	2104.9	1417.1	1203.7	1132.4	1104.4	1103.2	1088.1	1057.2	1029.1	1021.8
37.5°	2972.9	2078.5	1326.1	1131.9	1084.7	1088.1	1097.6	1063.9	1020.1	980.3	969.6
40°	3085.2	2042.0	1231.8	1069.6	1044.9	1080.8	1082.5	1029.1	943.8	907.3	897.8
42.5°	3217.1	2005.5	1144.2	1014.5	1013.4	1058.9	1053.8	953.9	902.8	884.3	879.2
45°	3390.6	1984.7	1061.1	962.3	988.7	1023.5	1005.0	912.4	891.0	880.3	875.9
47.5°	3664.0	1995.4	984.8	920.8	964.0	988.1	914.0	895.5	880.3	867.4	862.9
50°	4006.5	1989.2	923.0	892.1	935.9	951.1	873.1	873.6	865.8	851.2	844.4
52.5°	4264.2	1940.9	883.2	875.9	911.2	885.4	847.2	852.3	848.3	827.0	819.7
55°	4512.9	1899.4	862.9	869.7	893.3	803.4	816.9	829.3	825.3	804.6	801.2
57.5°	4822.3	1891.5	850.6	871.4	878.1	762.4	787.7	804.0	801.2	792.2	790.5
60°	5201.2	1893.8	839.4	874.2	861.3	732.1	760.2	781.0	782.7	781.0	779.8
62.5°	5409.5	1832.6	811.3	866.3	831.5	705.7	731.6	761.9	762.4	765.8	765.3
65°	5232.7	1649.5	759.1	838.8	781.5	683.8	706.9	740.0	731.6	746.7	746.7
66°	5060.9	1544.0	733.2	820.8	760.2	675.4	699.0	728.8	718.1	738.9	738.9
67.5°	4710.0	1366.0	686.6	782.7	729.9	663.6	690.0	710.2	695.6	726.5	724.3
70°	4068.8	1056.6	592.9	696.2	679.9	646.2	677.7	673.2	651.8	699.0	690.0
72.5°	3430.4	802.9	476.1	582.8	604.1	624.3	660.3	626.0	599.1	632.2	612.5
75°	2661.8	603.6	376.2	453.1	510.4	590.1	639.5	571.6	532.8	529.4	518.8
77.5°	1439.0	414.3	298.1	345.9	405.4	547.4	625.5	513.2	454.8	441.3	432.9
80°	569.9	269.5	216.7	262.2	283.5	485.7	591.8	445.2	375.0	361.6	348.7
82.5°	235.2	159.5	139.8	175.7	184.7	415.5	531.1	364.9	289.7	400.9	425.6
85°	101.1	87.6	83.1	91.0	104.4	291.4	422.8	278.5	312.7	279.0	221.8
87.5°	30.3	37.1	35.4	34.8	38.2	69.6	225.1	155.0	229.6	87.0	65.1
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)