

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: P317889

Luminaire Tested: **GLEON-SA5C-827-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5C-827-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26571 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

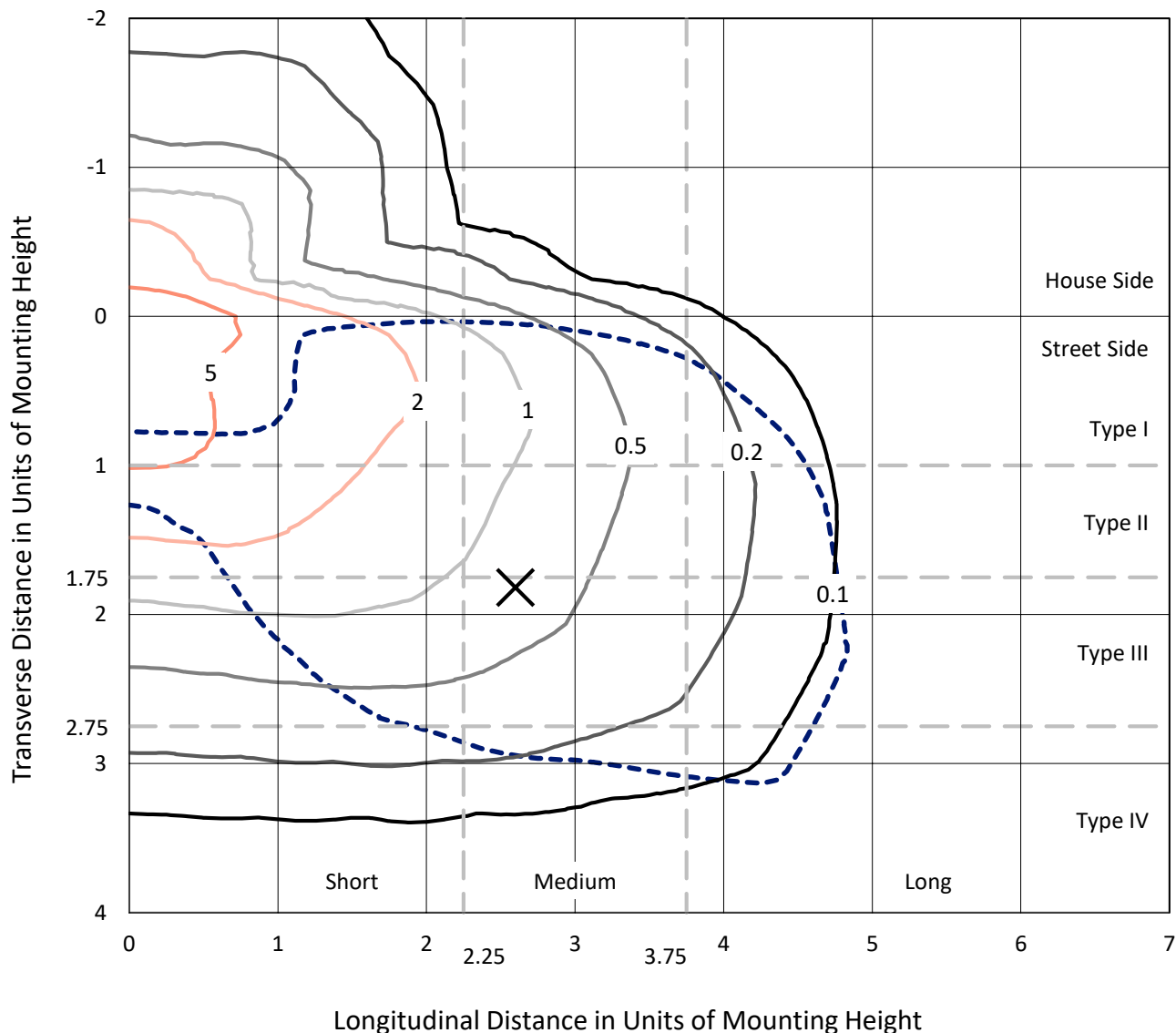
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

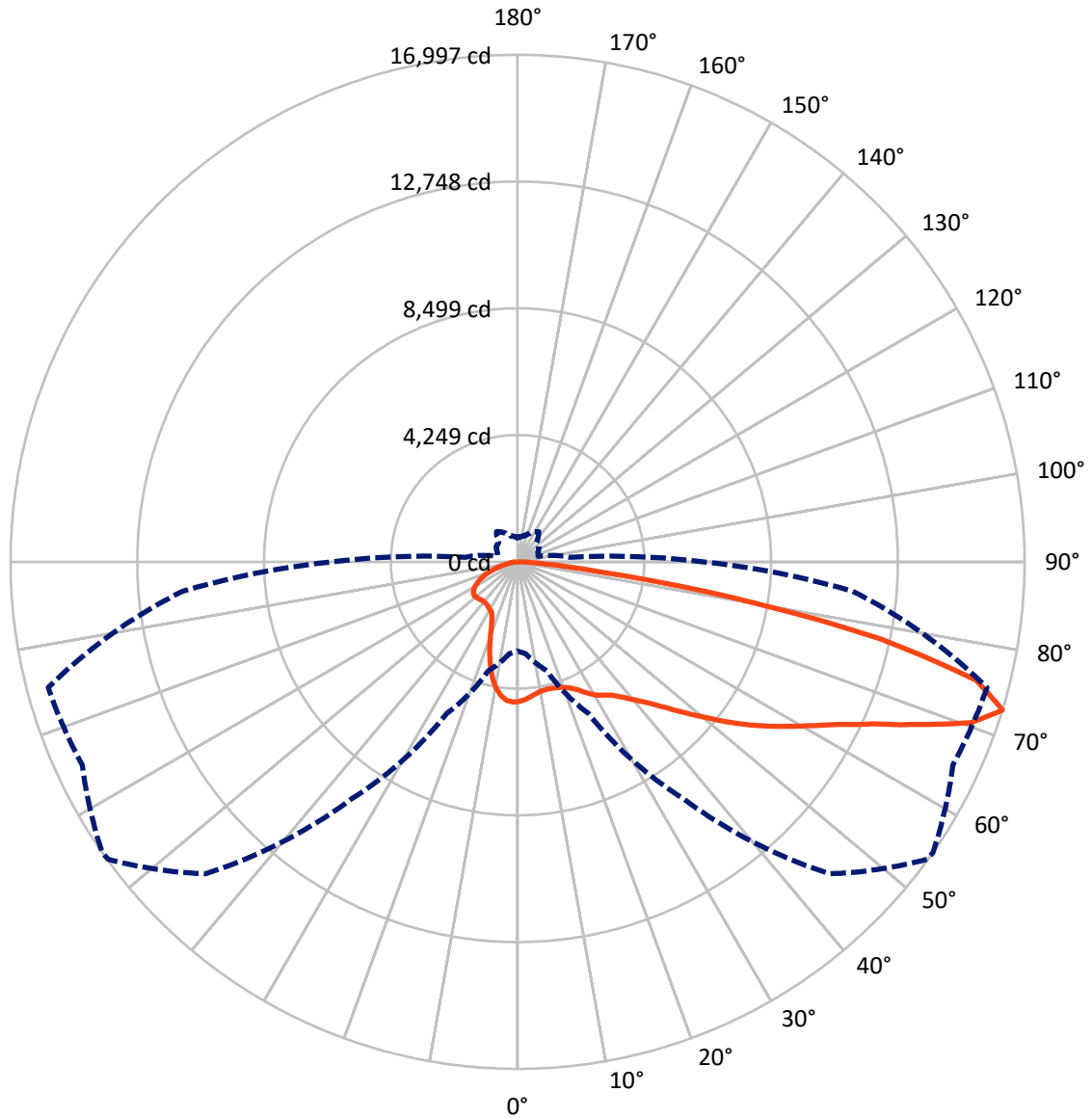
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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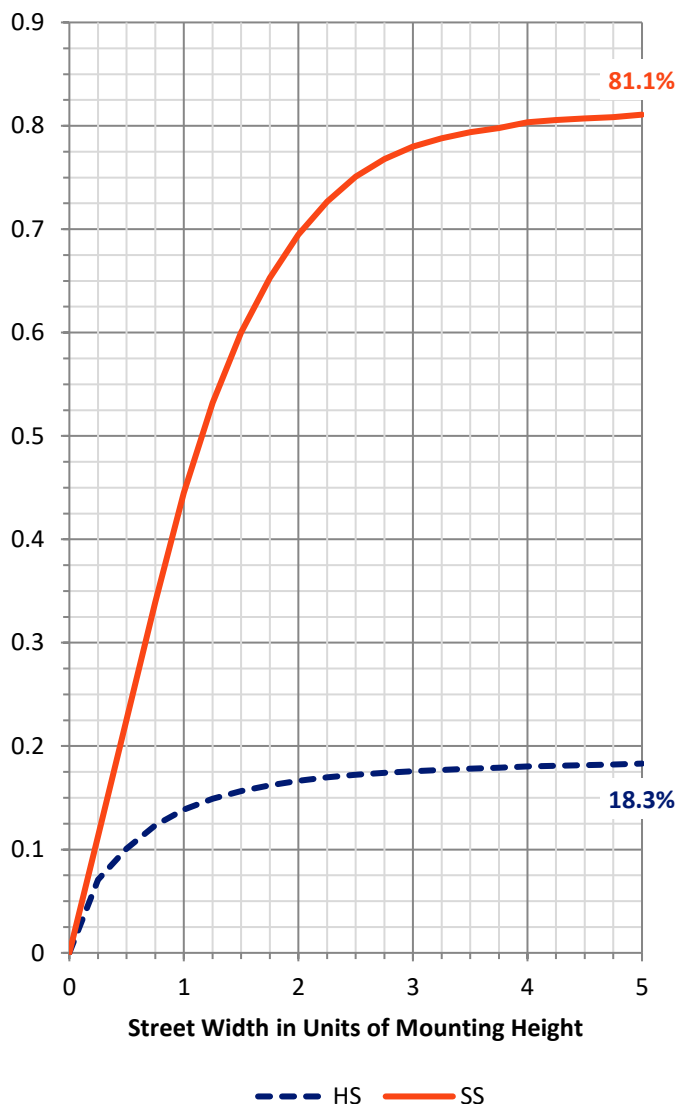
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4938.7	0.0	4938.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	21632.3	0.0	21632.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	26571.0	0.0	26571.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.1	1.6
10°-20°	1129.1	4.2
20°-30°	1861.5	7.0
30°-40°	2753.7	10.4
40°-50°	3843.5	14.5
50°-60°	5004.4	18.8
60°-70°	6150.3	23.1
70°-80°	4821.1	18.1
80°-90°	583.4	2.2
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°	26571.0	100.0
0°-180°	26571.0	100.0

**Coefficient of Utilization**

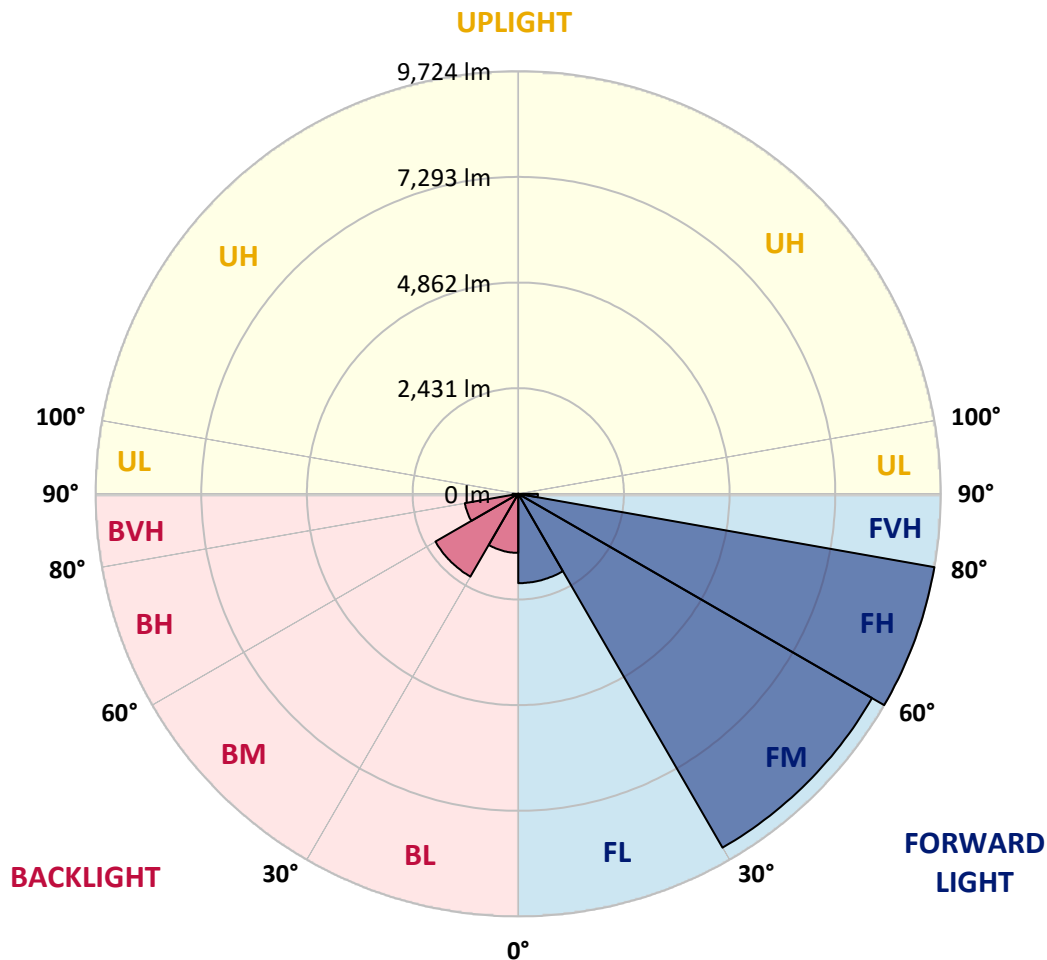


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2055.8	7.7			
FM (30°-60°)	9401.3	35.4			
FH (60°-80°)	9724.1	36.6			G4/12000
FVH (80°-90°)	451.1	1.7			G3/500
BL (0°-30°)	1358.8	5.1	B3/2500		
BM (30°-60°)	2200.3	8.3	B2/2500		
BH (60°-80°)	1247.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	132.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6
2.5°	4534.0	4523.2	4536.7	4555.5	4576.2	4604.0	4620.1	4627.3	4655.1	4665.9	4689.2
5°	4324.0	4318.6	4341.0	4373.3	4419.1	4483.7	4535.8	4545.7	4619.2	4671.3	4718.9
7.5°	4171.4	4171.4	4197.4	4236.0	4287.2	4374.2	4447.8	4461.3	4586.0	4698.2	4786.2
10°	4050.3	4054.7	4085.3	4131.0	4191.2	4283.6	4381.4	4396.7	4577.1	4761.0	4901.0
12.5°	3969.5	3980.2	4008.1	4049.4	4123.8	4236.0	4359.9	4380.5	4595.9	4850.8	5039.3
15°	4020.6	4038.6	4041.3	4058.3	4099.6	4221.7	4372.4	4394.0	4636.3	4942.3	5196.3
17.5°	4245.0	4251.3	4223.5	4187.6	4167.8	4245.9	4410.1	4432.6	4684.8	5033.0	5347.1
20°	4586.0	4582.4	4522.3	4425.4	4324.9	4337.4	4472.1	4495.4	4750.3	5112.8	5497.9
22.5°	5016.8	5004.3	4911.8	4733.2	4561.8	4490.0	4580.7	4600.4	4849.0	5226.8	5659.4
25°	5539.1	5511.3	5389.3	5149.6	4897.5	4712.6	4744.0	4762.8	4992.6	5354.3	5807.5
27.5°	6090.2	6062.4	5907.1	5617.2	5281.6	4993.5	4969.3	4985.4	5155.9	5448.5	5917.0
30°	6666.4	6636.7	6494.9	6170.1	5689.0	5284.3	5179.3	5185.5	5270.8	5499.7	6006.7
32.5°	7245.2	7217.4	7058.5	6681.6	6131.5	5596.6	5330.9	5322.9	5339.9	5552.6	6108.1
35°	7832.2	7842.9	7657.2	7239.8	6621.5	5943.9	5510.4	5493.4	5455.7	5661.2	6251.7
37.5°	8460.4	8453.2	8212.7	7776.5	7133.9	6320.8	5768.0	5765.3	5635.2	5866.7	6477.0
40°	8880.4	8884.9	8738.6	8325.8	7651.8	6738.2	6098.3	6092.0	5921.5	6174.5	6772.3
42.5°	9044.6	9074.3	9111.9	8849.9	8193.8	7221.9	6492.2	6483.3	6320.8	6616.1	7119.6
45°	9056.3	9115.5	9348.9	9315.7	8743.1	7775.6	6995.7	6970.6	6853.9	7203.0	7534.2
47.5°	8955.8	9016.8	9404.5	9593.0	9234.0	8359.9	7584.5	7564.7	7464.2	7937.2	7982.9
50°	8735.9	8794.2	9289.6	9728.5	9637.9	8921.7	8262.9	8210.9	8157.0	8785.3	8496.3
52.5°	8324.0	8436.2	9136.2	9760.8	9879.3	9420.7	8976.4	8942.3	8971.9	9680.0	9010.5
55°	7348.4	7474.1	8740.4	9733.9	10057.9	9839.8	9689.9	9688.1	9841.6	10618.8	9562.5
57.5°	6801.9	6890.7	7934.5	9688.1	10269.7	10256.2	10396.2	10413.3	10712.1	11641.0	10140.4
60°	6493.1	6586.5	7526.1	9518.5	10598.1	10794.7	11116.9	11151.0	11597.0	12772.7	10836.0
62.5°	6212.2	6314.6	7273.0	9173.0	10984.9	11564.7	11980.2	12010.7	12534.0	13935.8	11508.2
65°	5732.1	5847.9	6902.4	8945.9	11336.8	12569.0	13077.8	13098.5	13610.0	15154.6	12022.4
67.5°	5053.6	5159.5	6203.3	8444.2	11597.0	13788.6	14537.1	14548.8	14677.1	16015.2	12285.4
70°	4261.2	4301.5	5207.1	7408.6	11289.2	14929.3	16136.4	16139.1	15650.0	16566.3	12242.3
72.5°	2993.9	3089.1	3780.1	5608.2	9701.6	14790.2	16966.5	16997.1	16102.3	16288.1	11264.1
75°	1836.2	1936.7	2371.1	3398.7	6154.8	11632.0	15676.0	15887.8	15254.2	14522.7	9201.7
77.5°	1227.7	1265.4	1547.2	1981.6	2788.4	6692.4	12052.0	12450.5	12672.2	10591.0	5884.7
80°	684.8	756.6	1025.8	1231.3	1240.3	2659.2	7226.4	7319.7	7050.5	4217.2	1815.6
82.5°	362.6	402.1	684.8	723.4	676.7	890.3	2693.3	2696.0	2252.6	1130.8	539.4
85°	280.9	314.1	469.4	441.6	345.5	394.9	888.5	937.0	766.4	463.1	175.9
87.5°	140.0	174.1	318.6	280.0	135.5	113.1	317.7	339.2	302.4	181.3	63.7
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°	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6	4686.6
2.5°	4698.2	4706.3	4716.2	4705.4	4701.8	4687.5	4663.2	4657.8	4645.3	4646.2	4653.3
5°	4739.5	4753.0	4747.6	4706.3	4656.9	4587.8	4516.0	4455.0	4414.6	4411.9	4409.2
7.5°	4818.5	4827.5	4785.3	4667.7	4529.5	4369.7	4219.0	4087.0	4007.2	3987.4	3982.9
10°	4942.3	4940.5	4824.8	4587.8	4312.3	4026.9	3784.6	3601.5	3494.7	3463.3	3455.2
12.5°	5080.5	5059.9	4838.2	4442.4	4005.4	3609.6	3302.7	3098.9	2987.7	2951.8	2942.8
15°	5223.2	5172.1	4805.0	4225.3	3628.4	3160.0	2837.8	2649.3	2589.2	2569.4	2565.8
17.5°	5356.1	5257.3	4709.9	3930.9	3198.6	2712.1	2460.8	2385.5	2399.8	2425.8	2426.7
20°	5486.2	5314.8	4557.3	3559.3	2745.3	2343.3	2258.0	2313.7	2381.9	2434.8	2442.0
22.5°	5614.5	5355.2	4360.8	3130.4	2339.7	2136.0	2196.1	2297.5	2375.6	2433.0	2442.9
25°	5722.2	5365.0	4089.7	2672.6	2057.9	2057.9	2166.5	2262.5	2339.7	2396.2	2406.1
27.5°	5761.7	5298.6	3707.4	2249.0	1916.1	2022.0	2125.2	2205.1	2270.6	2330.7	2341.5
30°	5777.0	5175.7	3265.9	1908.9	1857.7	1983.4	2069.6	2137.8	2199.7	2256.2	2266.1
32.5°	5779.7	5027.6	2797.4	1715.9	1817.4	1943.0	2000.4	2060.6	2127.0	2149.4	2153.0
35°	5796.7	4852.6	2303.8	1617.2	1779.7	1905.3	1951.1	1994.2	1886.5	1894.5	1901.7
37.5°	5846.1	4679.4	1891.0	1561.6	1755.4	1885.6	1940.3	1784.2	1699.8	1680.1	1677.4
40°	5938.5	4494.5	1584.9	1516.7	1746.5	1895.4	1871.2	1665.7	1520.3	1411.7	1395.6
42.5°	6066.9	4295.3	1389.3	1487.1	1752.7	1943.0	1775.2	1551.7	1310.3	1240.3	1231.3
45°	6211.3	4086.1	1283.4	1466.5	1774.3	1979.8	1755.4	1400.0	1212.5	1159.5	1155.0
47.5°	6351.3	3830.4	1228.6	1457.5	1803.9	1950.2	1672.0	1353.4	1165.8	1138.0	1140.7
50°	6512.0	3599.7	1195.4	1447.6	1829.9	1931.3	1577.7	1329.1	1147.9	1182.0	1217.9
52.5°	6647.5	3361.0	1165.8	1427.9	1839.8	1898.1	1553.5	1333.6	1147.9	1213.4	1247.5
55°	6808.2	3180.6	1131.7	1386.6	1821.0	1803.9	1536.5	1360.6	1161.3	1120.0	1123.6
57.5°	7015.5	3121.4	1094.0	1322.0	1758.1	1666.6	1528.4	1386.6	1153.2	1127.2	1136.2
60°	7302.7	3184.2	1078.8	1237.6	1660.3	1558.9	1529.3	1373.1	1096.7	1051.8	1052.7
62.5°	7576.4	3254.2	1077.9	1184.7	1540.0	1462.9	1508.6	1329.1	1068.0	1042.0	1051.8
65°	7666.1	3183.3	1034.8	1125.4	1404.5	1348.0	1470.9	1282.5	1046.4	1007.0	1005.2
67.5°	7545.9	2963.4	947.7	1029.4	1249.3	1214.3	1421.6	1226.8	1012.3	980.0	974.6
70°	7188.7	2472.5	840.0	902.8	1072.5	1063.5	1343.5	1162.2	966.6	938.7	915.4
72.5°	6227.5	1761.7	708.1	751.2	873.2	902.0	1235.8	1077.9	902.0	841.8	805.9
75°	5114.6	1304.0	581.6	590.5	663.2	741.3	1087.7	979.1	825.7	723.4	695.5
77.5°	3132.1	797.8	463.1	466.7	475.7	591.4	895.7	868.7	728.7	603.1	583.4
80°	1014.1	435.3	334.8	351.8	324.9	433.5	692.8	739.5	625.5	504.4	482.8
82.5°	385.9	254.0	226.2	237.8	225.3	290.8	505.3	592.3	512.5	414.6	337.4
85°	186.7	143.6	133.7	149.9	139.1	149.0	323.1	436.2	388.6	270.1	251.3
87.5°	66.4	63.7	51.2	69.1	59.2	53.0	98.7	219.9	256.7	185.8	166.0
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)