

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: P383022

Luminaire Tested: **GLEON-SA3D-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22638.5 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

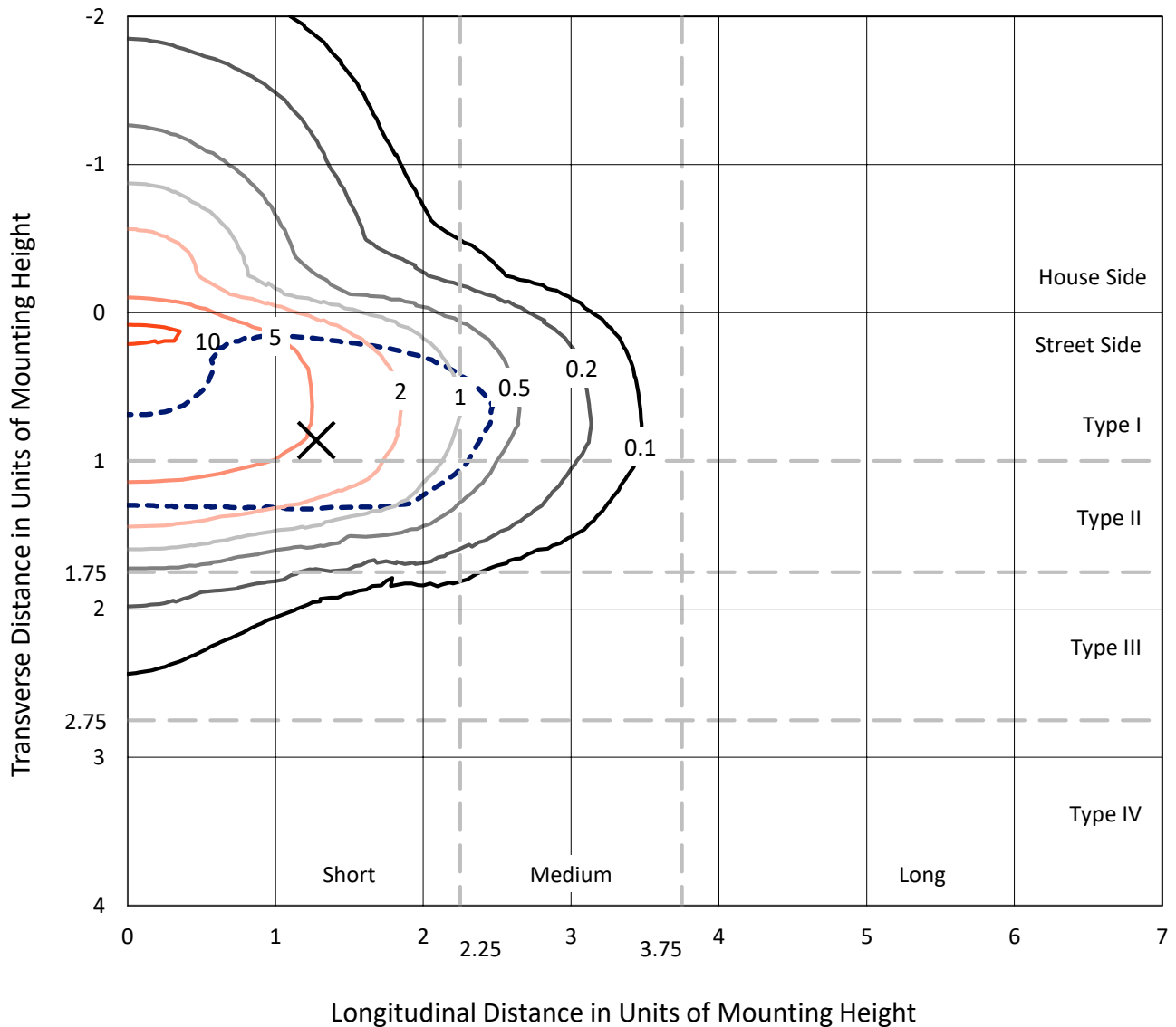
Input Watts (W): 191  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

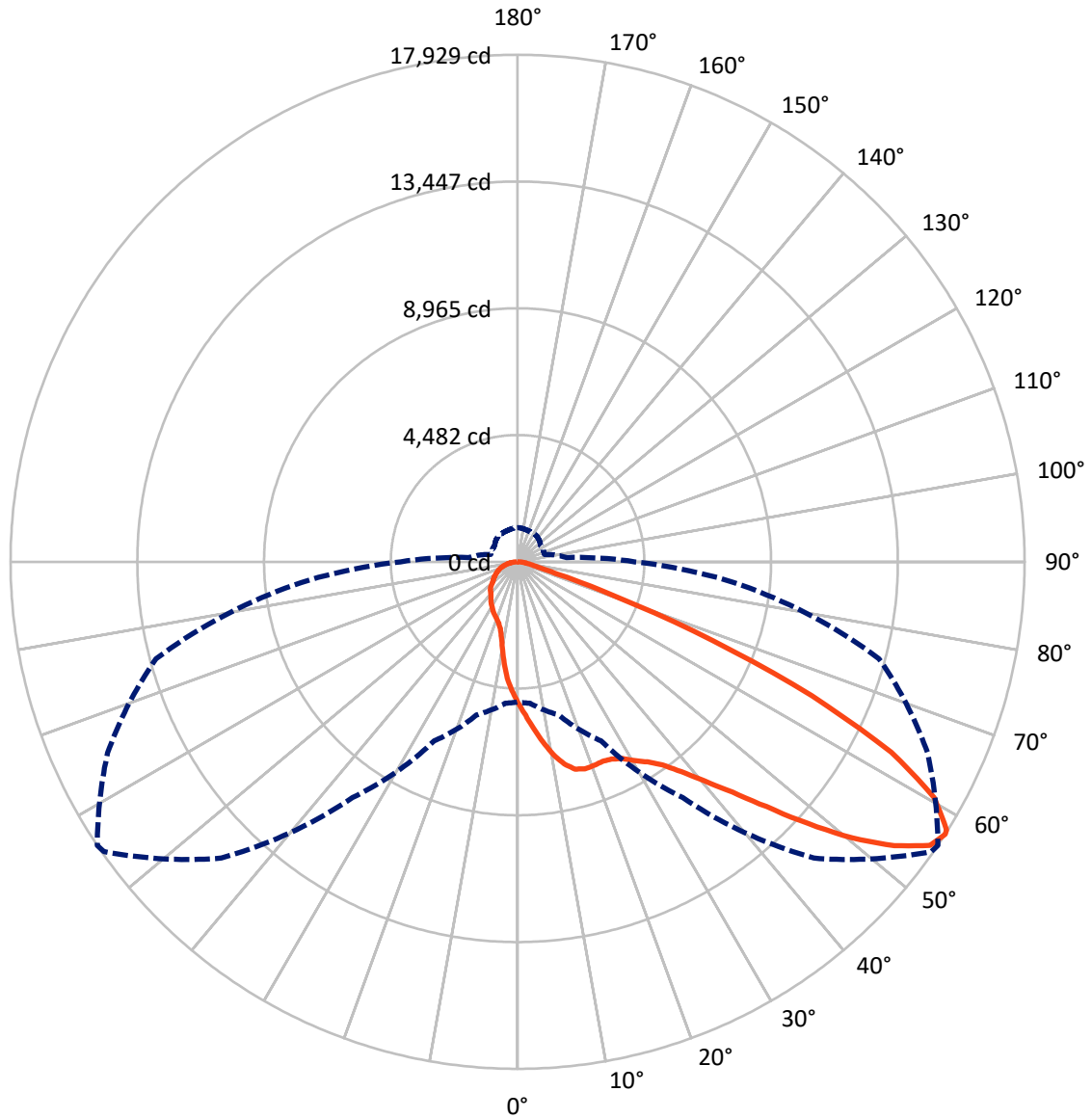
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

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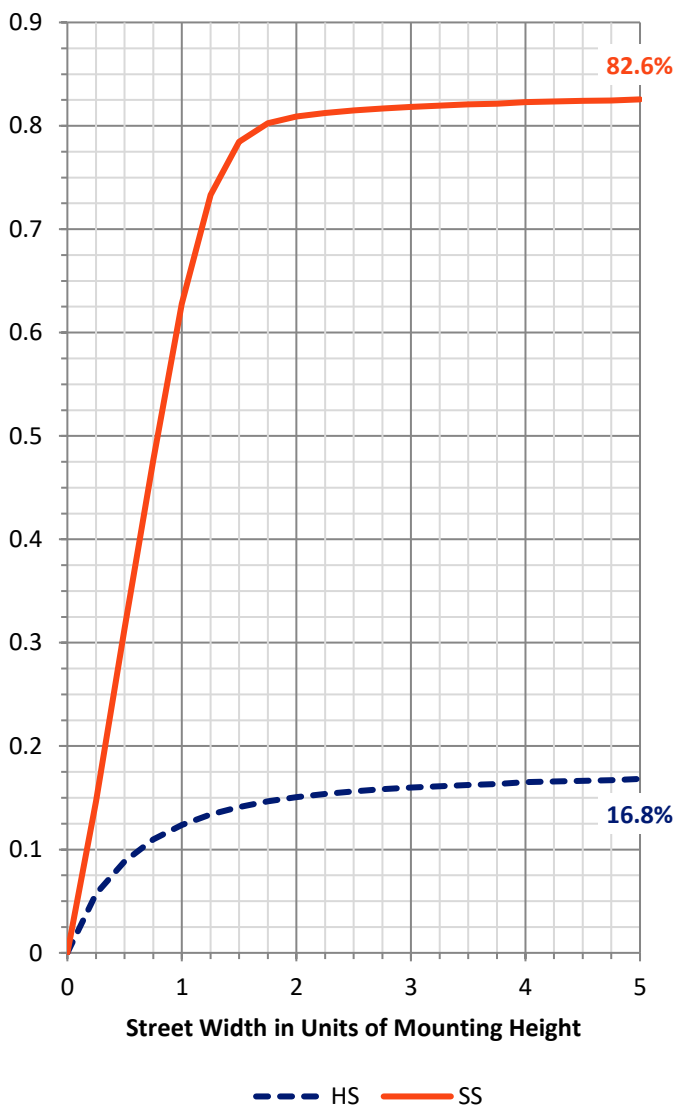
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3902.4	0.0	3902.4
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	18736.1	0.0	18736.1
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	22638.5	0.0	22638.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.7	2.1
10°-20°	1356.1	6.0
20°-30°	2208.8	9.8
30°-40°	3301.9	14.6
40°-50°	5008.3	22.1
50°-60°	5613.4	24.8
60°-70°	3315.5	14.6
70°-80°	1086.3	4.8
80°-90°	268.4	1.2
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°	22638.5	100.0
0°-180°	22638.5	100.0

**Coefficient of Utilization**

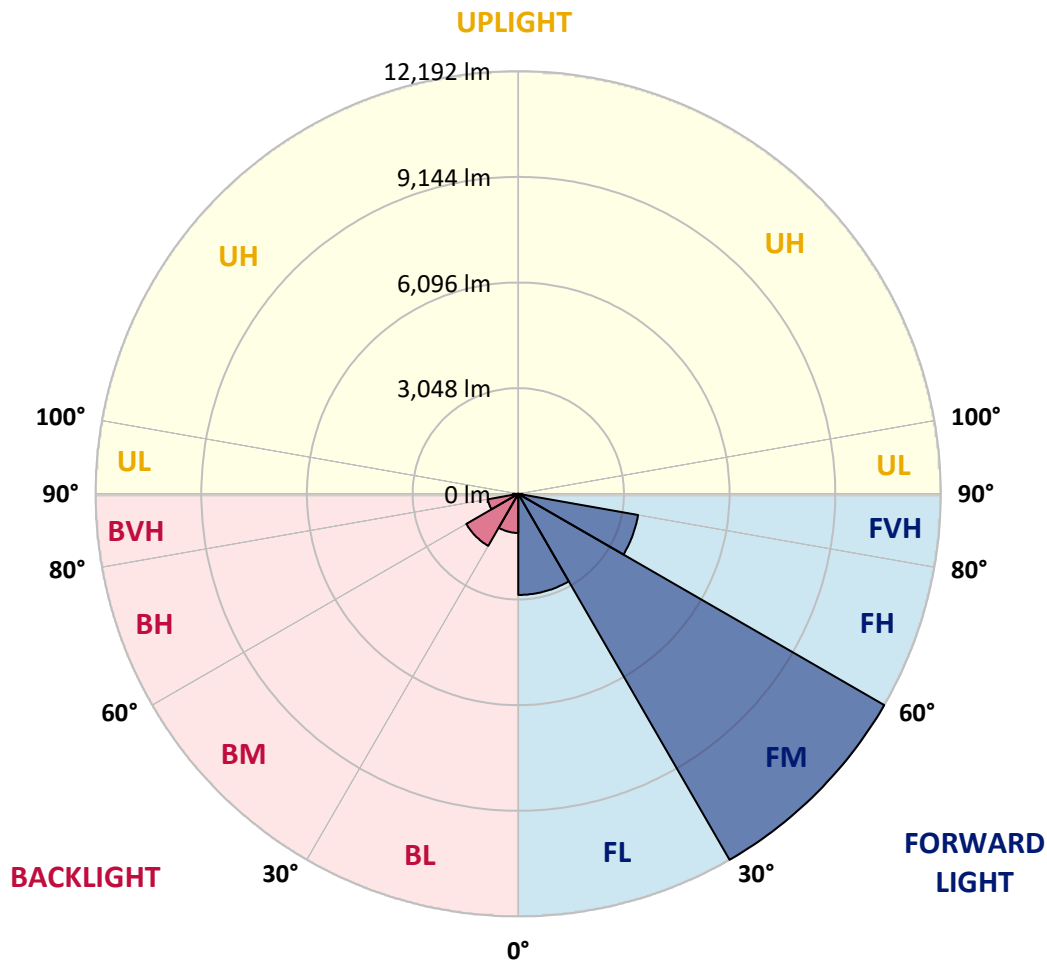


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.2	12.9			
FM (30°-60°)	12191.6	53.9			
FH (60°-80°)	3510.2	15.5			G2/5000
FVH (80°-90°)	118.2	0.5			G2/225
BL (0°-30°)	1128.4	5.0	B3/2500		
BM (30°-60°)	1732.1	7.7	B2/2500		
BH (60°-80°)	891.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	150.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2
2.5°	5765.8	5818.7	5795.3	5714.4	5652.2	5564.3	5466.2	5436.7	5333.2	5217.3	5078.1
5°	6678.4	6651.9	6613.8	6487.8	6354.7	6199.9	5954.1	5915.1	5684.9	5422.7	5145.7
7.5°	7198.1	7195.7	7173.2	7099.3	6977.9	6775.6	6479.2	6433.3	6085.5	5663.9	5234.4
10°	7122.6	7117.2	7154.5	7231.5	7268.1	7226.1	6976.4	6930.4	6503.3	5930.7	5337.1
12.5°	6693.9	6697.1	6757.0	6918.8	7138.9	7403.5	7363.0	7340.5	6936.7	6232.6	5461.6
15°	6360.1	6367.2	6414.6	6555.5	6815.3	7295.3	7598.0	7605.8	7356.1	6565.5	5607.1
17.5°	6213.9	6228.7	6250.5	6349.2	6587.3	7079.9	7654.0	7696.0	7723.3	6911.0	5747.1
20°	6260.6	6274.6	6280.9	6343.8	6539.1	6949.2	7615.1	7690.6	8004.9	7236.2	5887.2
22.5°	6469.9	6478.4	6482.4	6498.7	6650.4	6986.5	7589.4	7668.8	8208.7	7527.9	5992.9
25°	6816.9	6810.6	6785.8	6764.7	6866.6	7134.3	7648.6	7724.0	8374.4	7792.5	6062.2
27.5°	7232.3	7224.5	7176.3	7118.7	7177.1	7364.5	7818.9	7878.8	8523.0	8039.9	6097.2
30°	7731.0	7710.8	7619.8	7551.3	7573.9	7710.0	8099.8	8154.2	8752.5	8320.8	6131.4
32.5°	8307.5	8285.7	8154.2	8040.7	8040.7	8154.2	8389.2	8434.3	8947.0	8638.1	6186.7
35°	9029.5	9002.3	8831.1	8640.5	8586.8	8644.4	8783.7	8815.5	9297.1	9038.1	6287.0
37.5°	9880.6	9844.0	9622.3	9367.2	9249.7	9246.5	9347.0	9412.3	9856.5	9563.2	6457.4
40°	10734.1	10708.4	10514.8	10314.0	10083.7	10009.8	10164.6	10184.8	10587.9	10215.2	6675.3
42.5°	11393.9	11389.2	11353.4	11379.9	11144.1	10994.8	11116.2	11132.5	11481.0	10920.8	6907.1
45°	11742.4	11750.2	11923.7	12308.0	12395.2	12286.3	12346.2	12350.8	12501.7	11632.7	7119.5
47.5°	11463.1	11503.6	11942.3	12802.1	13515.5	13877.3	13777.7	13835.3	13491.3	12244.3	7286.0
50°	10374.6	10424.5	11171.3	12581.9	14038.3	15416.9	15364.8	15351.5	14289.6	12692.3	7376.3
52.5°	9026.4	9065.3	9681.5	11437.4	13654.7	16268.1	16746.5	16678.1	14999.1	13027.7	7393.3
55°	6973.3	7033.9	7624.4	9153.2	12103.4	15942.9	17762.6	17701.2	15645.6	13203.5	7373.1
57°	4957.4	5021.2	5607.8	6985.7	10181.7	14817.1	17863.7	17929.1	15995.0	13233.1	7395.7
57.5°	4423.7	4489.0	5070.2	6408.4	9582.6	14410.2	17776.6	17885.5	16058.0	13228.3	7408.1
60°	2227.4	2252.3	2622.7	3577.2	6057.6	11649.8	16640.0	16920.8	16114.7	12999.7	7461.8
62.5°	1384.8	1367.0	1355.3	1647.8	2947.0	7725.6	14294.2	14835.0	15027.9	12445.8	7331.9
65°	1217.5	1184.1	1055.7	1032.4	1301.6	3752.3	10764.5	11437.4	12705.6	11572.8	7022.3
67.5°	1143.7	1111.0	966.3	879.1	879.9	1487.6	6683.0	7440.8	9897.8	10097.0	6291.7
70°	1067.5	1037.8	902.5	799.8	749.2	823.9	3074.7	3649.6	6452.0	7936.4	5258.5
72.5°	969.4	949.2	820.8	715.0	661.3	617.0	1177.1	1390.3	3735.2	5330.1	3651.9
75°	866.7	848.0	738.3	637.2	571.9	485.4	662.9	714.2	1897.6	2726.9	1798.0
77.5°	753.9	743.0	656.6	563.3	511.1	402.2	469.1	494.0	813.8	1169.4	901.7
80°	599.8	620.9	574.2	501.8	453.6	322.1	332.2	348.6	473.8	571.0	511.9
82.5°	390.6	427.1	449.7	407.6	373.5	253.7	238.8	245.8	308.9	348.6	222.5
85°	162.6	182.9	295.7	266.9	248.2	185.2	160.2	163.4	191.4	198.4	91.0
87.5°	72.4	77.0	130.0	122.1	105.0	63.8	68.5	74.7	101.9	96.5	35.0
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°	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2	5021.2
2.5°	5025.9	4960.6	4848.5	4724.8	4623.6	4542.8	4461.1	4405.0	4339.7	4304.7	4286.8
5°	5029.8	4901.4	4665.7	4423.7	4207.4	4009.8	3821.6	3676.8	3541.5	3468.3	3448.1
7.5°	5046.1	4853.2	4472.0	4073.7	3689.3	3338.4	3067.7	2898.0	2775.9	2721.4	2705.9
10°	5059.3	4796.4	4232.3	3642.6	3119.8	2764.3	2554.2	2459.3	2417.3	2410.3	2403.2
12.5°	5090.4	4738.0	3980.2	3192.9	2677.1	2431.2	2358.1	2351.9	2363.6	2380.7	2380.7
15°	5139.5	4680.5	3692.4	2807.0	2395.5	2309.1	2323.9	2358.1	2390.1	2416.4	2420.3
17.5°	5175.3	4609.7	3382.7	2498.1	2245.3	2268.7	2321.6	2369.8	2402.5	2428.2	2430.5
20°	5200.9	4499.9	3052.1	2262.4	2159.0	2231.3	2297.5	2340.2	2362.8	2388.5	2392.4
22.5°	5187.7	4352.9	2758.8	2093.7	2088.9	2176.8	2239.9	2291.2	2274.1	2249.2	2265.5
25°	5123.9	4150.6	2457.0	1967.6	2015.0	2103.7	2181.5	2147.3	2089.7	2078.8	2085.1
27.5°	5010.3	3892.4	2177.6	1850.9	1929.4	2036.0	2031.3	1997.1	1976.9	1962.9	1971.4
30°	4888.2	3612.3	1933.3	1749.0	1834.5	1922.4	1904.5	1903.8	1883.6	1861.0	1871.9
32.5°	4767.6	3330.7	1739.6	1665.0	1763.0	1774.6	1813.5	1825.2	1785.5	1738.1	1734.9
35°	4662.6	3064.5	1592.6	1588.7	1676.6	1678.2	1734.9	1718.6	1619.8	1570.8	1570.8
37.5°	4584.0	2799.3	1480.5	1520.2	1563.0	1603.5	1632.3	1564.5	1548.2	1521.0	1520.2
40°	4549.8	2565.9	1410.5	1468.1	1482.8	1534.3	1460.3	1486.7	1494.6	1480.5	1480.5
42.5°	4514.0	2362.8	1349.8	1428.4	1426.1	1419.1	1381.8	1416.0	1447.1	1447.9	1445.6
45°	4478.2	2187.7	1296.2	1343.6	1376.3	1300.8	1307.8	1344.4	1387.9	1403.6	1403.6
47.5°	4438.5	2049.2	1247.2	1254.1	1304.7	1254.1	1248.7	1276.7	1328.0	1353.0	1358.4
50°	4351.4	1924.8	1191.1	1175.5	1189.6	1206.7	1211.4	1224.6	1281.3	1321.0	1330.3
52.5°	4230.8	1813.5	1119.5	1103.2	1103.2	1167.8	1189.6	1193.5	1241.7	1289.2	1298.5
55°	4130.4	1742.7	1045.7	1042.5	1039.4	1126.5	1163.9	1170.1	1203.6	1240.9	1245.6
57°	4137.4	1737.2	988.8	991.9	991.2	1084.5	1139.7	1153.0	1170.1	1202.0	1207.5
57.5°	4141.3	1741.2	976.4	977.9	977.2	1072.9	1132.8	1147.6	1160.8	1194.2	1199.6
60°	4199.7	1751.3	925.9	908.7	912.6	1010.6	1093.1	1111.8	1120.3	1164.7	1171.7
62.5°	4113.3	1706.1	885.3	844.2	844.2	945.2	1037.8	1067.5	1080.7	1140.6	1152.2
65°	3862.8	1579.3	837.9	771.0	778.8	879.9	971.7	1020.0	1040.2	1114.9	1127.4
67.5°	3476.2	1432.3	787.3	705.6	713.5	811.5	903.2	955.4	987.3	1086.8	1097.0
70°	2972.8	1252.6	718.9	636.4	645.7	736.8	822.4	881.5	928.9	1060.4	1063.5
72.5°	2191.7	1026.9	623.2	560.1	570.3	649.7	740.7	809.1	873.0	994.3	992.8
75°	1303.1	802.9	517.4	483.1	490.2	564.1	666.7	750.0	845.7	968.6	983.4
77.5°	790.4	604.5	421.7	404.6	413.1	488.6	613.9	702.6	834.0	913.4	908.7
80°	477.7	431.8	336.8	325.9	334.5	417.8	568.0	666.7	729.0	780.4	780.4
82.5°	249.7	263.7	247.4	238.8	250.5	339.2	516.6	581.9	644.2	553.2	516.6
85°	101.9	137.7	150.2	149.4	156.4	234.9	445.8	497.9	415.5	394.4	403.8
87.5°	34.2	58.3	73.1	63.0	66.1	147.8	308.9	240.4	285.5	199.2	189.0
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)