

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: P454138

Luminaire Tested: **GALN-SA5B-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24065 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

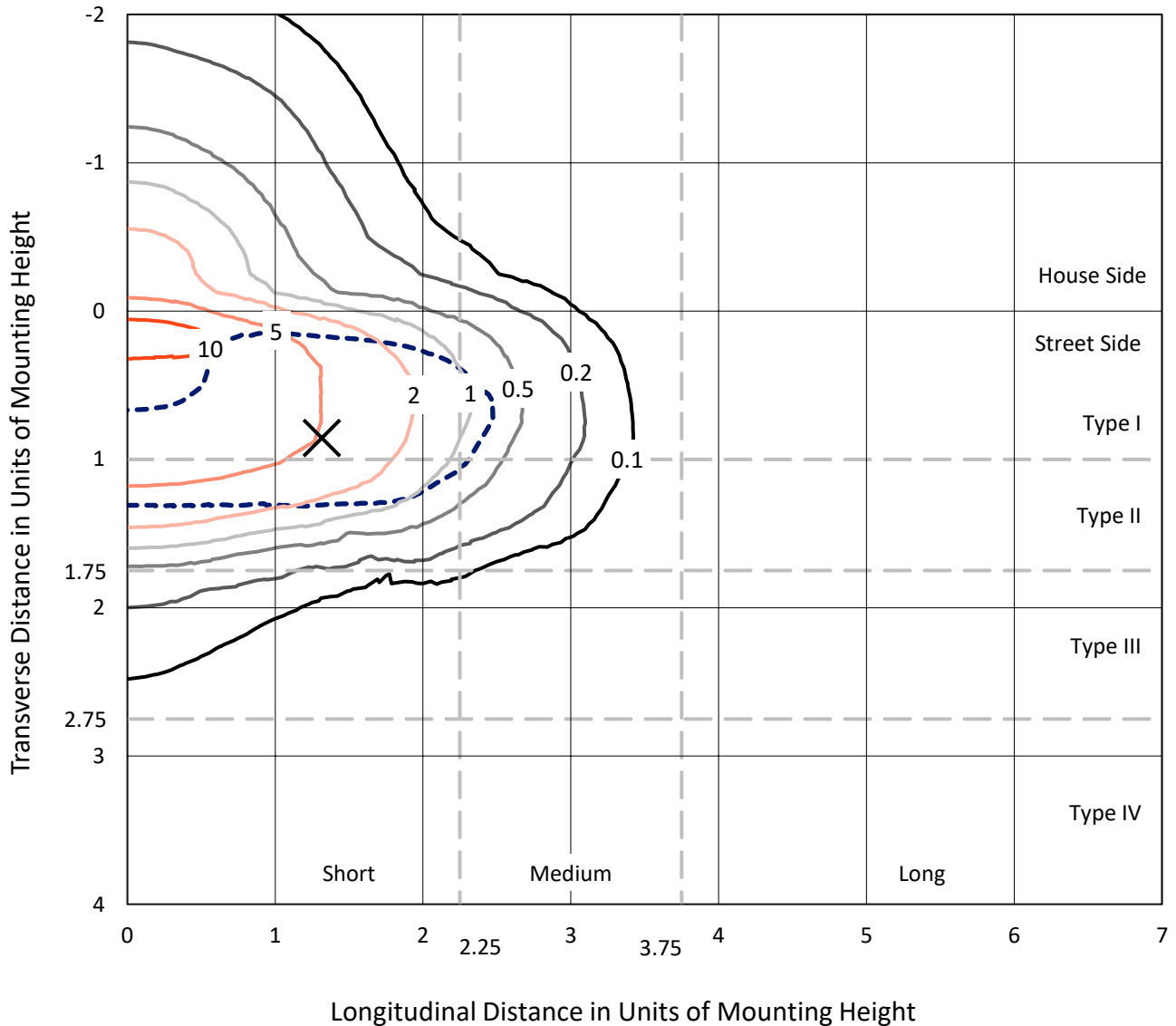
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

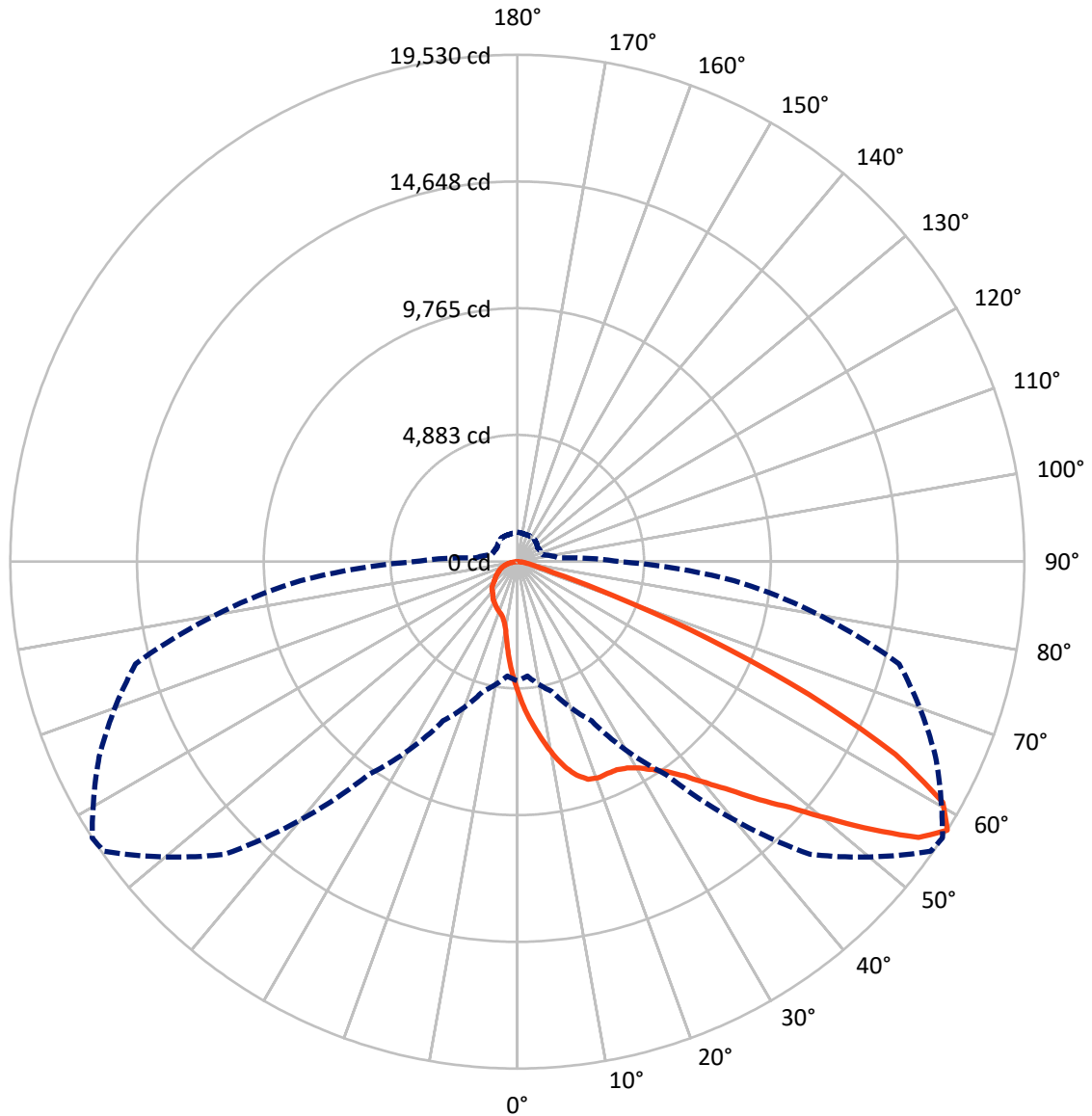
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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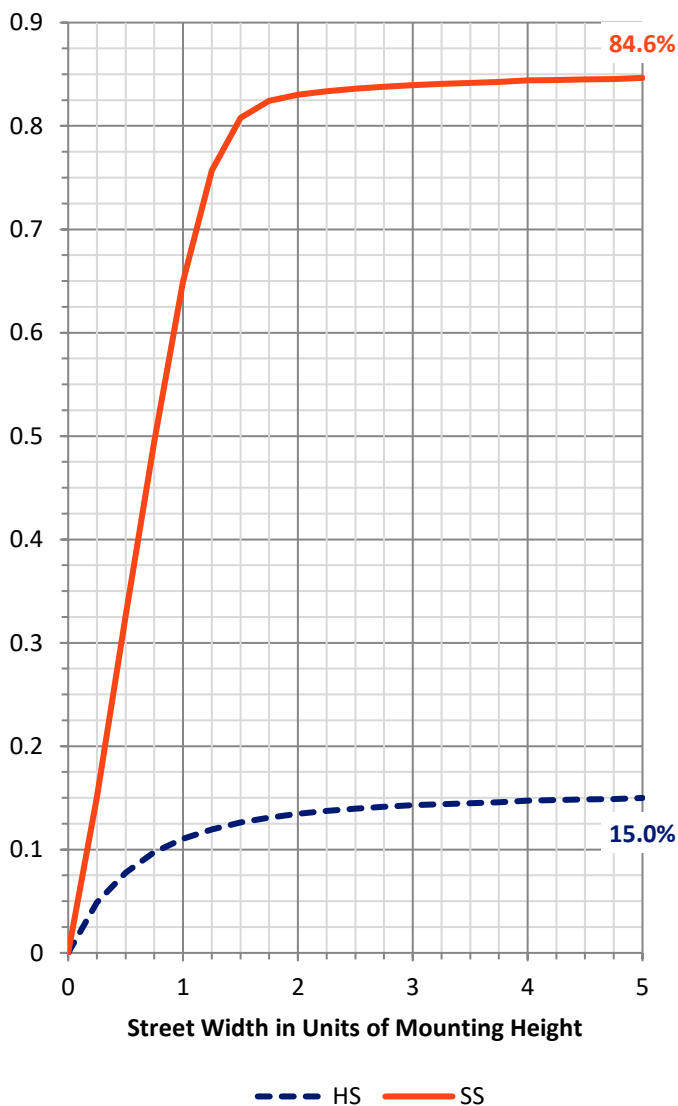
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3659.6	0.0	3659.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	20405.4	0.0	20405.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	24065.0	0.0	24065.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.9	2.0
10°-20°	1432.0	6.0
20°-30°	2377.9	9.9
30°-40°	3581.8	14.9
40°-50°	5377.7	22.3
50°-60°	6027.7	25.0
60°-70°	3527.7	14.7
70°-80°	1043.5	4.3
80°-90°	210.9	0.9
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°	24065.0	100.0
0°-180°	24065.0	100.0

**Coefficient of Utilization**



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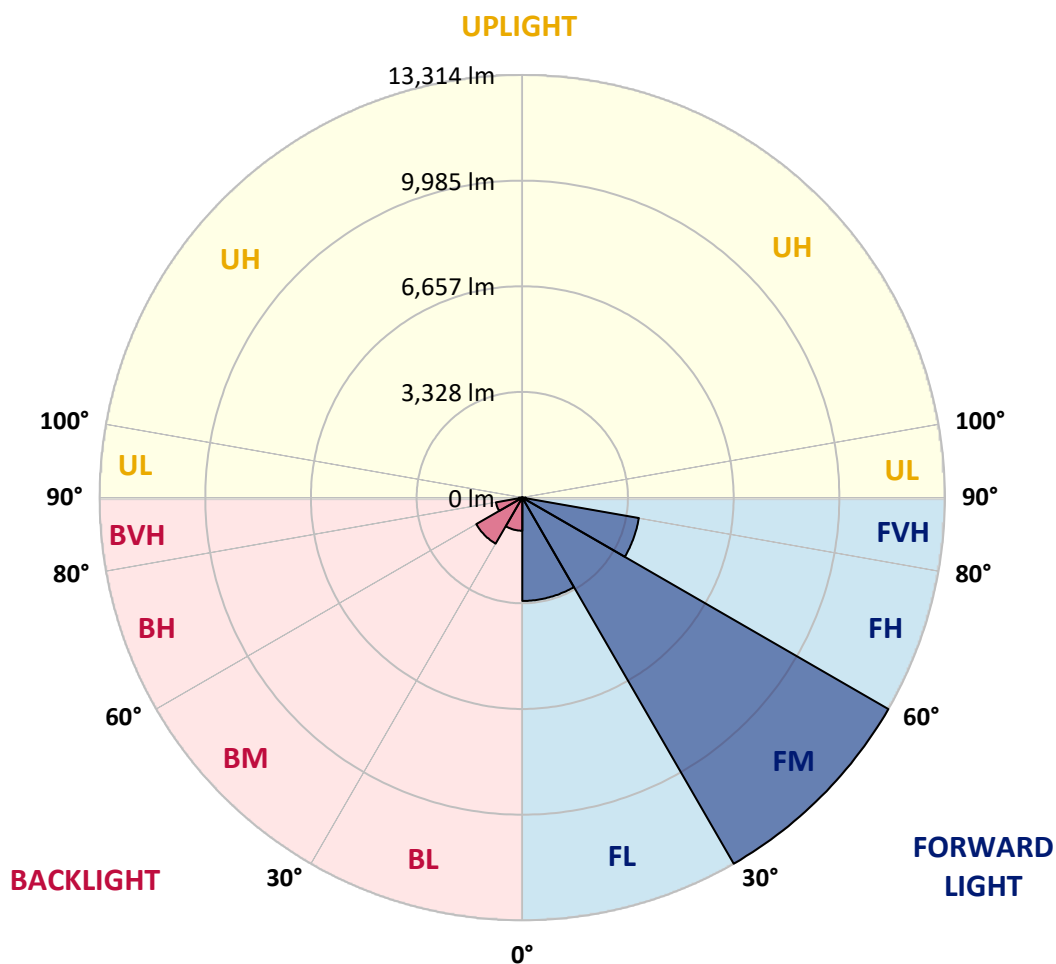
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3253.0	13.5			
FM	(30°-60°)	13313.8	55.3			
FH	(60°-80°)	3729.1	15.5			G2/5000
FVH	(80°-90°)	109.4	0.5			G2/225
BL	(0°-30°)	1042.7	4.3	B3/2500		
BM	(30°-60°)	1673.3	7.0	B2/2500		
BH	(60°-80°)	842.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	101.5	0.4			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°	57°	65°	75°	85°
0°	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8
2.5°	6282.2	6213.7	6159.7	6112.3	6050.3	5883.0	5715.7	5713.1	5580.1	5374.6	5163.8
5°	7305.7	7213.5	7225.4	7077.8	6930.3	6687.9	6333.6	6315.1	6031.9	5647.2	5256.0
7.5°	7972.3	7973.6	7936.7	7852.4	7693.0	7417.7	7015.9	6925.0	6531.2	5947.6	5361.4
10°	7938.0	7973.6	8035.5	8108.0	8156.7	8021.0	7654.8	7544.2	7031.7	6311.2	5478.6
12.5°	7482.2	7537.6	7625.8	7807.6	8101.4	8325.3	8200.2	8110.6	7611.3	6673.4	5607.7
15°	7197.7	7230.6	7279.4	7401.9	7718.0	8254.2	8578.2	8530.8	8158.0	7083.1	5752.6
17.5°	7110.8	7143.7	7159.5	7234.6	7459.8	8009.2	8727.1	8811.4	8642.8	7459.8	5898.9
20°	7197.7	7213.5	7213.5	7258.3	7434.8	7865.6	8720.5	8890.4	9040.6	7911.7	6035.8
22.5°	7425.6	7432.2	7423.0	7438.8	7570.5	7905.1	8658.6	8869.4	9362.0	8295.0	6142.6
25°	7795.8	7806.3	7745.7	7708.8	7805.0	8079.0	8692.8	8886.5	9613.6	8661.2	6213.7
27.5°	8216.0	8229.1	8155.4	8069.8	8114.5	8293.7	8827.2	9001.1	9802.0	9022.2	6258.5
30°	8731.0	8736.3	8612.5	8509.7	8480.8	8613.8	9056.4	9218.4	10036.5	9447.6	6325.7
32.5°	9258.0	9297.5	9138.1	8993.2	8944.4	8985.3	9395.0	9551.7	10315.7	9904.7	6433.7
35°	9974.6	9981.1	9790.1	9613.6	9452.9	9505.6	9828.3	9941.6	10701.7	10433.0	6586.5
37.5°	10869.0	10929.6	10666.1	10336.8	10139.2	10062.8	10352.6	10476.5	11243.1	11081.1	6817.0
40°	11862.2	11884.6	11659.4	11453.9	11092.9	10871.6	11071.9	11206.2	11911.0	11854.3	7084.4
42.5°	12486.6	12535.4	12552.5	12531.4	12260.1	11888.6	11965.0	12028.2	12701.4	12580.2	7358.4
45°	12697.4	12769.9	13014.9	13533.9	13562.9	13196.7	13018.8	13079.4	13562.9	13312.6	7620.6
47.5°	12348.3	12472.2	12924.0	13988.4	14785.3	14813.0	14276.9	14143.8	14348.0	13919.9	7810.2
50°	11446.0	11472.3	12163.9	13705.1	15358.4	16358.2	15803.6	15555.9	15093.6	14369.1	7940.7
52.5°	10049.6	10079.9	10659.6	12389.2	15005.3	17438.4	17589.9	17147.2	15851.0	14718.1	8026.3
55°	7459.8	7635.0	8272.6	9944.3	13332.4	17336.9	19009.9	18758.3	16766.5	14994.8	8160.6
57.5°	4586.8	4426.1	5182.2	6765.6	10027.3	15943.2	19448.6	19530.2	17774.3	15226.6	8385.9
60°	2110.3	2141.9	2454.1	3489.5	6112.3	12472.2	18318.3	18834.7	18331.5	15218.7	8442.5
62.5°	1454.3	1425.3	1346.3	1532.0	2787.4	7888.0	15473.0	16347.6	17214.4	14745.8	8217.3
65°	1300.2	1271.2	1118.4	1067.0	1280.4	3438.1	11248.4	12352.3	14494.2	13552.3	7656.1
67.5°	1214.5	1175.0	1017.0	916.8	914.2	1368.7	6632.6	7961.7	10750.5	11457.8	6633.9
70°	1125.0	1093.4	936.6	825.9	778.5	860.2	2915.2	3816.2	6980.4	8256.8	5167.8
72.5°	1035.4	998.5	857.6	739.0	677.1	644.2	1117.1	1453.0	3944.0	4950.4	3168.1
75°	905.0	886.5	766.7	669.2	602.0	520.3	708.7	808.8	1886.4	2273.7	1590.0
77.5°	791.7	771.9	681.0	584.9	536.1	422.9	503.2	549.3	795.6	922.1	717.9
80°	579.6	599.4	574.3	516.4	478.2	332.0	338.5	376.7	472.9	523.0	438.7
82.5°	367.5	404.4	442.6	397.8	362.3	262.1	234.5	249.0	322.7	342.5	195.0
85°	154.1	156.8	256.9	242.4	206.8	155.4	141.0	148.9	172.6	180.5	90.9
87.5°	59.3	58.0	90.9	84.3	64.5	44.8	44.8	50.1	68.5	63.2	29.0
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°	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8	5055.8
2.5°	5072.9	4979.4	4793.6	4563.1	4394.5	4204.8	4037.5	3917.6	3872.8	3851.8	3812.3
5°	5069.0	4884.5	4499.9	4096.8	3772.7	3440.8	3160.2	2978.4	2962.6	2841.4	2829.6
7.5°	5070.3	4788.4	4175.8	3583.0	3089.1	2749.2	2517.4	2456.8	2384.3	2365.9	2375.1
10°	5074.2	4665.9	3828.1	3074.6	2596.4	2373.8	2286.8	2263.1	2265.7	2273.7	2275.0
12.5°	5079.5	4547.3	3467.1	2688.6	2319.8	2227.5	2218.3	2239.4	2261.8	2278.9	2282.9
15°	5086.1	4411.6	3115.4	2377.7	2181.4	2173.5	2203.8	2239.4	2271.0	2296.0	2300.0
17.5°	5078.2	4253.5	2820.3	2186.7	2105.0	2143.2	2193.3	2238.1	2267.1	2290.8	2293.4
20°	5059.7	4077.0	2535.8	2052.3	2057.6	2119.5	2173.5	2215.7	2247.3	2259.2	2268.4
22.5°	4988.6	3866.3	2288.1	1948.3	2001.0	2086.6	2151.1	2176.2	2140.6	2115.6	2122.2
25°	4867.4	3592.3	2057.6	1864.0	1949.6	2040.5	2106.4	2045.8	2016.8	2006.2	2011.5
27.5°	4715.9	3291.9	1883.7	1775.7	1883.7	1989.1	1970.7	1960.1	1947.0	1929.8	1933.8
30°	4552.6	2998.2	1736.2	1707.2	1812.6	1873.2	1881.1	1898.2	1883.7	1857.4	1867.9
32.5°	4401.1	2721.5	1624.2	1649.3	1762.5	1753.3	1812.6	1832.4	1765.2	1676.9	1680.9
35°	4272.0	2464.7	1539.9	1592.6	1676.9	1680.9	1740.1	1671.6	1599.2	1557.0	1559.7
37.5°	4174.5	2264.4	1484.6	1543.9	1567.6	1617.6	1586.0	1550.5	1541.2	1512.3	1513.6
40°	4116.5	2089.2	1449.0	1505.7	1501.7	1536.0	1434.5	1470.1	1483.3	1474.1	1475.4
42.5°	4058.6	1965.4	1412.1	1453.0	1451.7	1384.5	1362.1	1392.4	1426.6	1430.6	1427.9
45°	4012.5	1869.2	1373.9	1372.6	1399.0	1293.6	1287.0	1305.4	1354.2	1377.9	1376.6
47.5°	3961.1	1788.9	1316.0	1279.1	1287.0	1236.9	1226.4	1234.3	1293.6	1331.8	1342.3
50°	3896.6	1708.5	1243.5	1193.5	1160.5	1184.2	1186.9	1188.2	1247.5	1290.9	1300.2
52.5°	3845.2	1647.9	1160.5	1123.7	1084.1	1136.8	1156.6	1159.2	1194.8	1230.4	1236.9
55°	3875.5	1613.7	1078.9	1052.5	1017.0	1088.1	1126.3	1131.6	1139.5	1165.8	1169.8
57.5°	3966.4	1621.6	1013.0	978.8	952.4	1030.1	1094.7	1098.6	1093.4	1125.0	1130.2
60°	3994.0	1617.6	964.3	897.1	881.3	968.2	1048.6	1056.5	1055.2	1101.3	1110.5
62.5°	3878.1	1567.6	915.5	828.6	818.0	905.0	984.0	1015.6	1022.2	1088.1	1099.9
65°	3605.4	1464.8	851.0	756.1	756.1	837.8	922.1	965.6	984.0	1072.3	1085.5
67.5°	3245.8	1343.6	785.1	694.2	691.6	773.3	856.2	901.0	930.0	1049.9	1057.8
70°	2693.9	1180.3	703.4	627.0	627.0	700.8	775.9	829.9	872.0	1007.7	1007.7
72.5°	1845.5	981.4	604.6	550.6	551.9	620.4	696.8	757.4	807.5	923.4	926.1
75°	1167.1	766.7	496.6	469.0	474.2	538.8	617.8	681.0	781.2	912.9	916.8
77.5°	620.4	538.8	395.2	388.6	395.2	454.5	542.7	629.7	783.8	791.7	778.5
80°	401.8	382.0	312.2	299.0	301.7	366.2	483.4	598.1	629.7	637.6	608.6
82.5°	218.7	242.4	221.3	208.1	208.1	285.9	412.3	475.5	451.8	375.4	358.3
85°	93.5	113.3	114.6	100.1	96.2	176.5	276.6	259.5	241.1	230.5	227.9
87.5°	26.3	36.9	36.9	27.7	21.1	48.7	55.3	15.8	0.0	1.3	2.6
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)