

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: P320140

Luminaire Tested: **GLEON-SA6D-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32417 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

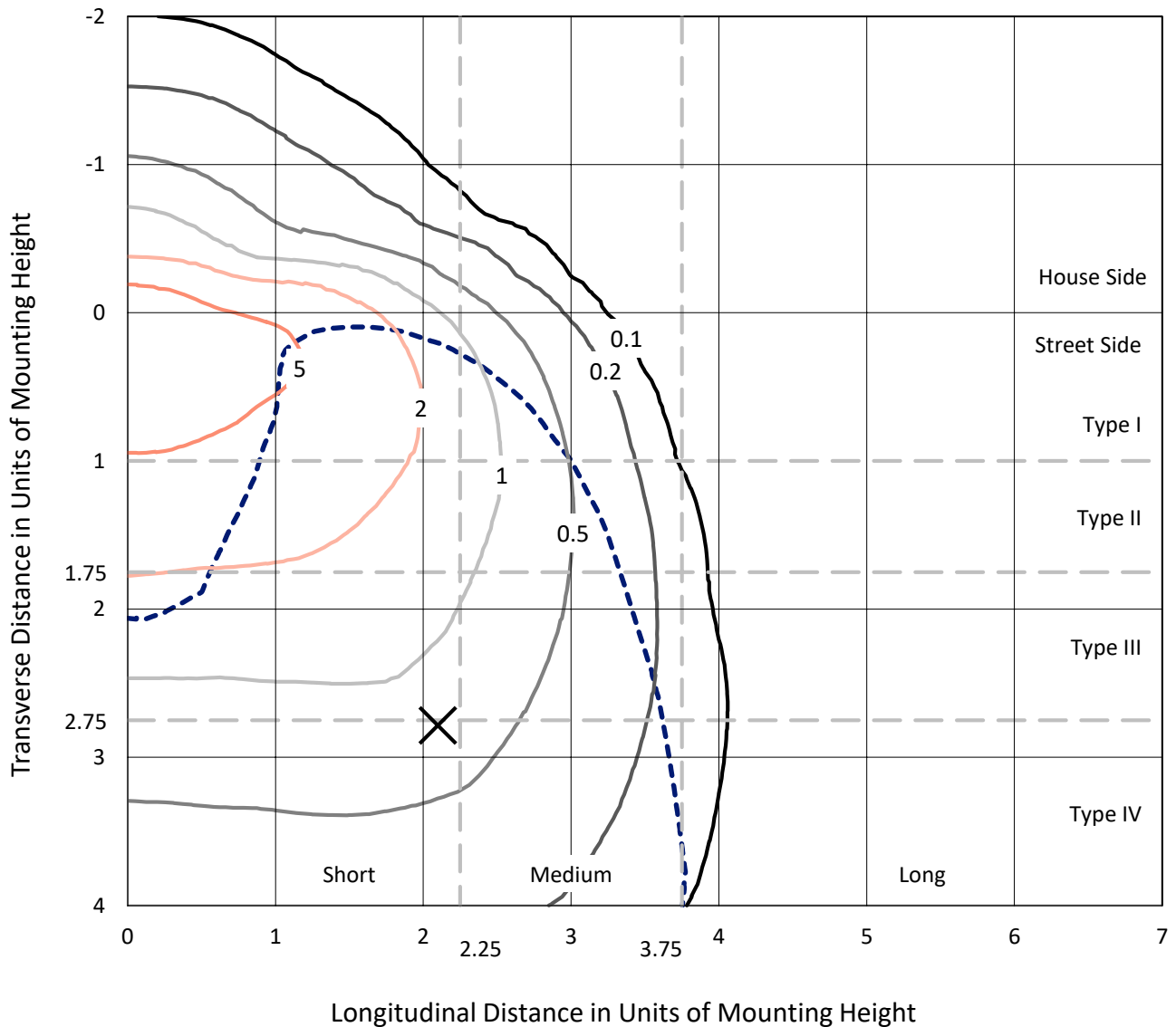
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

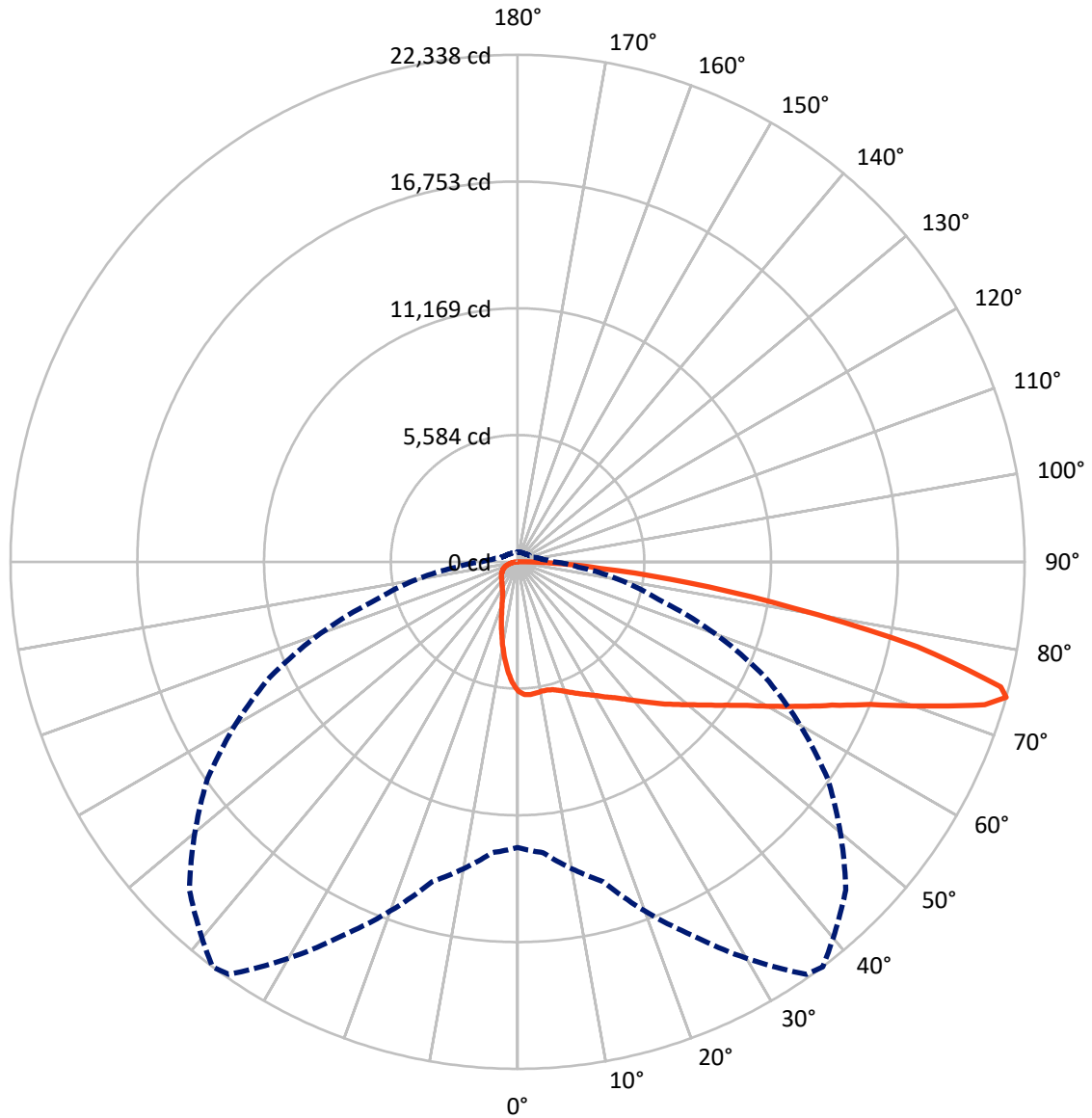
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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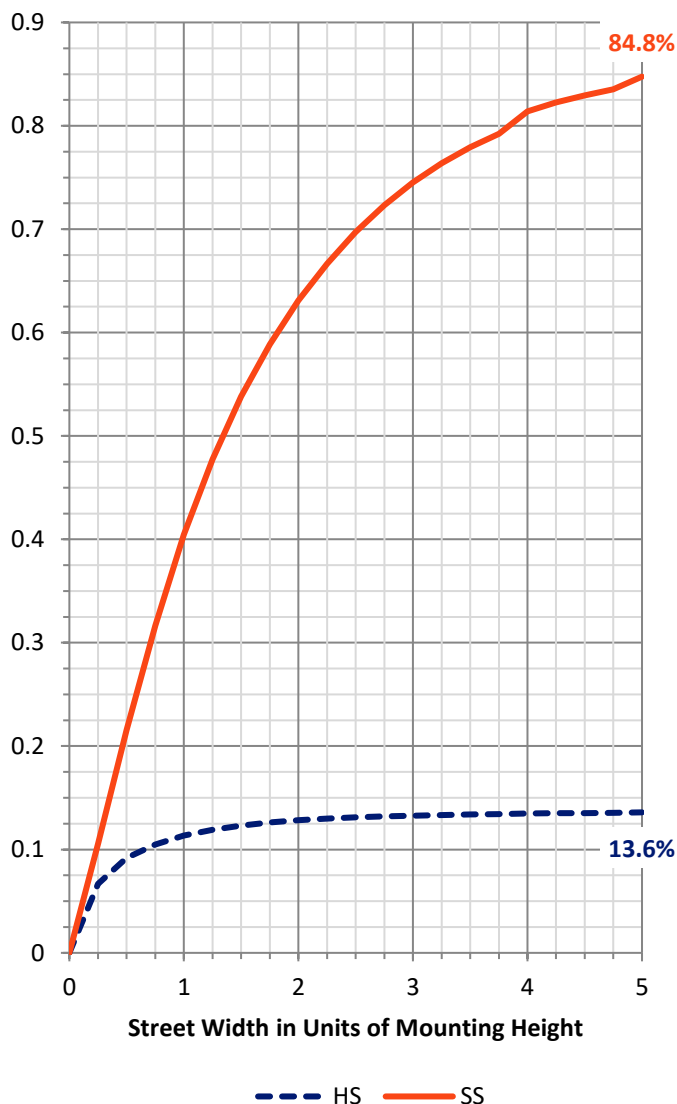
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4460.4	0.0	4460.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27956.7	0.0	27956.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	32417.0	0.0	32417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.0	1.6
10°-20°	1289.3	4.0
20°-30°	1986.5	6.1
30°-40°	2888.7	8.9
40°-50°	4251.7	13.1
50°-60°	5970.7	18.4
60°-70°	7557.1	23.3
70°-80°	6654.3	20.5
80°-90°	1315.7	4.1
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°	32417.0	100.0
0°-180°	32417.0	100.0

Coefficient of Utilization

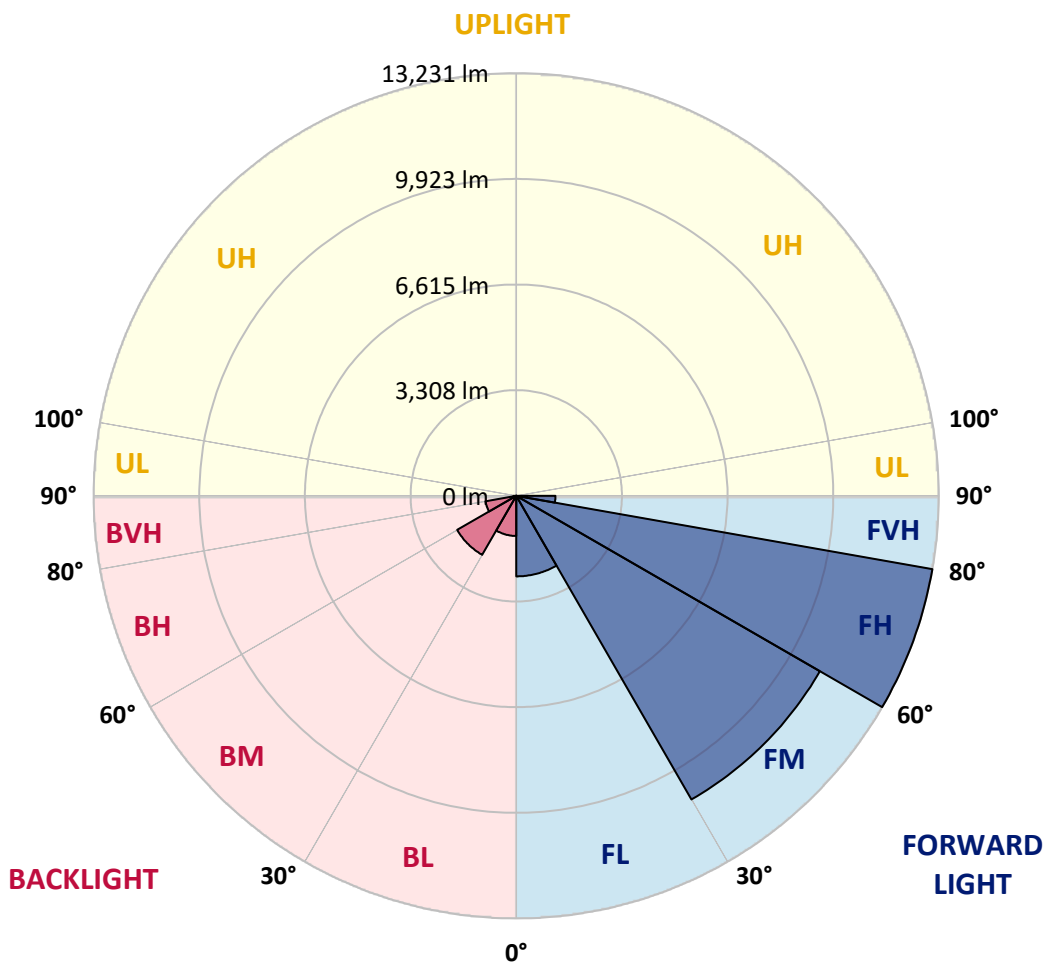


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2522.4	7.8			
FM (30°-60°)	10976.7	33.9			
FH (60°-80°)	13231.0	40.8			G5
FVH (80°-90°)	1226.6	3.8			G5
BL (0°-30°)	1256.4	3.9	B3/2500		
BM (30°-60°)	2134.5	6.6	B2/2500		
BH (60°-80°)	980.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	89.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7
2.5°	5907.0	5908.2	5907.0	5897.9	5876.2	5857.9	5843.1	5821.4	5773.4	5736.9	5682.1
5°	5963.0	5956.1	5951.5	5934.4	5900.2	5879.6	5851.1	5810.0	5731.2	5658.1	5569.0
7.5°	5936.7	5928.7	5918.4	5897.9	5859.1	5841.9	5802.0	5748.3	5653.5	5557.6	5429.7
10°	5855.6	5853.3	5848.8	5844.2	5811.1	5797.4	5760.9	5703.8	5610.1	5493.6	5344.1
12.5°	5765.4	5771.1	5789.4	5813.4	5798.5	5791.7	5768.8	5730.0	5634.1	5508.5	5328.1
15°	5708.3	5724.3	5773.4	5836.2	5848.8	5846.5	5840.8	5815.7	5714.0	5574.7	5364.6
17.5°	5688.9	5715.2	5808.8	5912.7	5949.3	5957.3	5959.5	5916.1	5803.1	5655.8	5402.3
20°	5724.3	5757.4	5894.5	6037.2	6095.4	6100.0	6089.7	6014.4	5887.6	5725.5	5422.9
22.5°	5831.6	5861.3	6032.6	6193.6	6259.9	6266.7	6235.9	6121.7	5976.7	5807.7	5451.4
25°	6038.3	6074.9	6246.2	6407.2	6441.4	6442.6	6398.0	6256.4	6093.1	5923.0	5513.1
27.5°	6307.8	6344.4	6498.5	6656.1	6637.8	6627.5	6567.0	6425.4	6245.0	6081.7	5622.7
30°	6608.1	6648.1	6794.3	6906.2	6862.8	6842.2	6793.1	6610.4	6456.3	6298.7	5790.5
32.5°	6918.7	6955.3	7083.2	7159.7	7104.9	7095.7	7021.5	6854.8	6731.5	6629.8	6062.3
35°	7237.3	7263.6	7389.2	7432.6	7359.5	7357.2	7336.7	7183.7	7106.0	7154.0	6457.4
37.5°	7562.8	7569.6	7676.9	7679.2	7657.5	7666.7	7688.4	7592.4	7614.1	7763.7	6971.3
40°	7852.8	7871.1	7948.7	7972.7	8010.4	8042.4	8150.8	8088.0	8255.9	8520.8	7610.7
42.5°	8067.5	8102.9	8227.3	8289.0	8411.2	8461.4	8614.4	8672.7	9010.7	9408.1	8371.2
45°	8249.0	8303.8	8503.7	8630.4	8837.1	8925.0	9144.3	9339.5	9863.7	10370.7	9171.7
47.5°	8445.4	8515.1	8765.2	9007.3	9288.2	9387.5	9786.0	10078.3	10773.8	11339.0	9926.5
50°	8734.3	8788.0	9032.4	9412.6	9763.2	9891.1	10442.6	10861.7	11698.7	12261.6	10580.8
52.5°	9137.4	9116.9	9323.6	9856.8	10327.3	10484.9	11143.7	11695.3	12636.2	13096.4	11133.5
55°	9542.8	9508.5	9653.6	10321.6	10985.0	11150.6	11915.7	12532.3	13528.0	13847.7	11557.1
57.5°	9993.8	9928.8	10050.9	10845.7	11734.1	11931.6	12780.1	13421.8	14405.0	14455.2	11826.6
60°	10458.6	10370.7	10507.7	11495.4	12685.3	12918.2	13791.8	14289.7	15231.7	14941.7	11913.4
62.5°	10865.1	10803.5	11014.7	12220.5	13757.5	14013.3	14785.2	15212.3	16047.0	15143.8	11600.5
65°	11220.2	11230.5	11595.9	13035.9	14953.1	15226.0	15924.8	16349.6	16688.8	15023.9	10868.5
67.5°	11643.9	11702.1	12325.6	14109.2	16458.1	16757.3	17582.9	17589.7	17047.3	14320.5	9427.5
70°	12261.6	12381.5	13329.3	15598.3	18598.0	19009.1	19646.3	18318.3	16543.7	12413.5	7417.7
72.5°	12809.8	13033.6	14397.0	17302.0	21206.1	21517.8	20853.3	17898.0	14439.2	9303.0	4621.2
74°	12587.1	12864.6	14591.1	18141.3	22188.1	22337.7	20445.6	16671.6	12039.0	6442.6	2685.7
75°	12107.5	12409.0	14307.9	18133.3	22063.7	21980.3	19461.3	15270.5	9915.1	4394.0	1787.1
77.5°	9771.2	10089.8	12056.1	15541.2	18091.0	18012.2	14949.7	10243.9	4342.6	1441.1	907.8
80°	5680.9	5924.1	7484.0	9869.4	12198.8	12341.6	9831.7	5068.9	1708.3	809.6	615.5
82.5°	2523.6	2691.4	3615.2	5038.0	7361.8	7545.6	5148.8	2656.0	1055.1	492.2	370.0
85°	1655.7	1780.2	2194.7	2399.1	3505.6	3631.2	2520.2	2068.0	696.6	270.6	271.8
87.5°	1191.0	1310.9	1630.6	1423.9	1608.9	1523.3	1371.4	1913.8	279.8	154.2	91.4
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°	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7	5711.7
2.5°	5658.1	5639.8	5598.7	5521.1	5477.7	5441.1	5380.6	5345.2	5329.2	5328.1	5334.9
5°	5517.6	5475.4	5369.2	5239.0	5135.1	5040.3	4922.7	4851.9	4801.7	4772.0	4780.0
7.5°	5354.3	5288.1	5121.4	4913.6	4746.9	4563.0	4381.4	4273.0	4188.5	4125.7	4137.1
10°	5242.4	5151.1	4907.9	4608.7	4331.2	4064.0	3813.9	3664.3	3545.6	3454.2	3461.1
12.5°	5204.7	5081.4	4744.6	4344.9	3955.5	3590.1	3263.5	3034.0	2911.8	2807.9	2815.9
15°	5210.5	5044.9	4607.5	4107.4	3617.5	3157.3	2761.1	2492.8	2327.2	2255.2	2256.4
17.5°	5215.0	5002.6	4463.7	3852.7	3282.9	2753.1	2322.6	2050.8	1894.4	1828.2	1829.3
20°	5200.2	4934.1	4285.5	3560.4	2933.5	2382.0	1965.2	1734.5	1615.8	1564.4	1564.4
22.5°	5180.8	4853.0	4084.6	3267.0	2588.7	2060.0	1709.4	1533.6	1465.0	1430.8	1429.7
25°	5189.9	4792.5	3879.0	2965.5	2271.2	1803.0	1539.3	1422.8	1377.1	1355.4	1354.3
27.5°	5239.0	4764.0	3689.5	2665.2	1993.7	1610.1	1425.1	1342.9	1313.2	1299.5	1299.5
30°	5328.1	4764.0	3491.9	2409.4	1763.1	1467.3	1337.2	1281.2	1260.7	1251.5	1251.5
32.5°	5483.4	4790.2	3301.2	2155.9	1579.2	1355.4	1264.1	1226.4	1210.4	1205.8	1205.8
35°	5750.6	4879.3	3115.1	1916.1	1430.8	1264.1	1194.4	1172.7	1161.3	1160.2	1163.6
37.5°	6126.3	5060.9	2940.4	1739.1	1325.7	1189.9	1136.2	1119.1	1112.2	1117.9	1122.5
40°	6599.0	5307.5	2781.7	1579.2	1245.8	1130.5	1082.5	1071.1	1067.7	1075.7	1082.5
42.5°	7169.9	5641.0	2651.5	1463.9	1184.1	1080.2	1036.8	1023.1	1019.7	1028.8	1038.0
45°	7787.7	5999.5	2560.1	1378.3	1136.2	1042.5	996.9	982.0	975.2	979.7	990.0
47.5°	8349.5	6338.6	2523.6	1317.7	1090.5	1010.6	961.5	943.2	931.8	929.5	937.5
50°	8823.4	6591.0	2540.7	1281.2	1054.0	975.2	927.2	906.7	889.5	879.3	885.0
52.5°	9168.3	6749.7	2556.7	1265.2	1025.4	936.4	889.5	870.1	847.3	830.2	830.2
55°	9418.3	6786.3	2521.3	1252.7	1003.7	894.1	847.3	829.0	806.2	786.8	784.5
57.5°	9516.5	6683.5	2390.0	1234.4	988.9	854.1	802.8	789.0	769.6	746.8	745.7
60°	9384.1	6366.1	2136.5	1195.6	969.5	821.0	758.2	749.1	739.9	718.3	717.1
62.5°	8852.0	5669.5	1808.8	1116.8	930.6	785.6	717.1	721.7	722.8	708.0	705.7
65°	7887.1	4712.6	1489.0	1014.0	872.4	743.4	674.9	696.6	709.1	706.8	703.4
67.5°	6484.8	3667.8	1261.8	905.5	795.9	685.1	629.2	654.3	664.6	672.6	670.3
70°	4813.1	2586.4	1043.7	791.3	703.4	616.6	569.8	582.4	575.5	584.6	588.1
72.5°	2683.4	1551.8	850.7	677.1	607.5	536.7	503.6	501.3	486.4	486.4	486.4
74°	1610.1	1138.5	747.9	606.3	549.3	484.2	455.6	445.3	431.6	432.8	431.6
75°	1294.9	978.6	686.3	559.5	508.1	453.3	424.8	411.1	400.8	400.8	399.7
77.5°	817.6	743.4	552.7	445.3	406.5	373.4	354.0	335.7	335.7	334.6	333.4
80°	617.8	591.5	430.5	336.9	311.7	286.6	274.1	266.1	266.1	269.5	268.3
82.5°	423.6	445.3	302.6	235.2	222.7	204.4	202.1	203.3	199.8	195.3	194.1
85°	309.5	334.6	204.4	148.4	135.9	124.5	133.6	138.2	132.5	122.2	117.6
87.5°	118.8	219.2	109.6	61.7	57.1	49.1	57.1	59.4	63.9	50.2	51.4
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)