

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: P383643

Luminaire Tested: **GLEON-SA9B-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47594.6 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

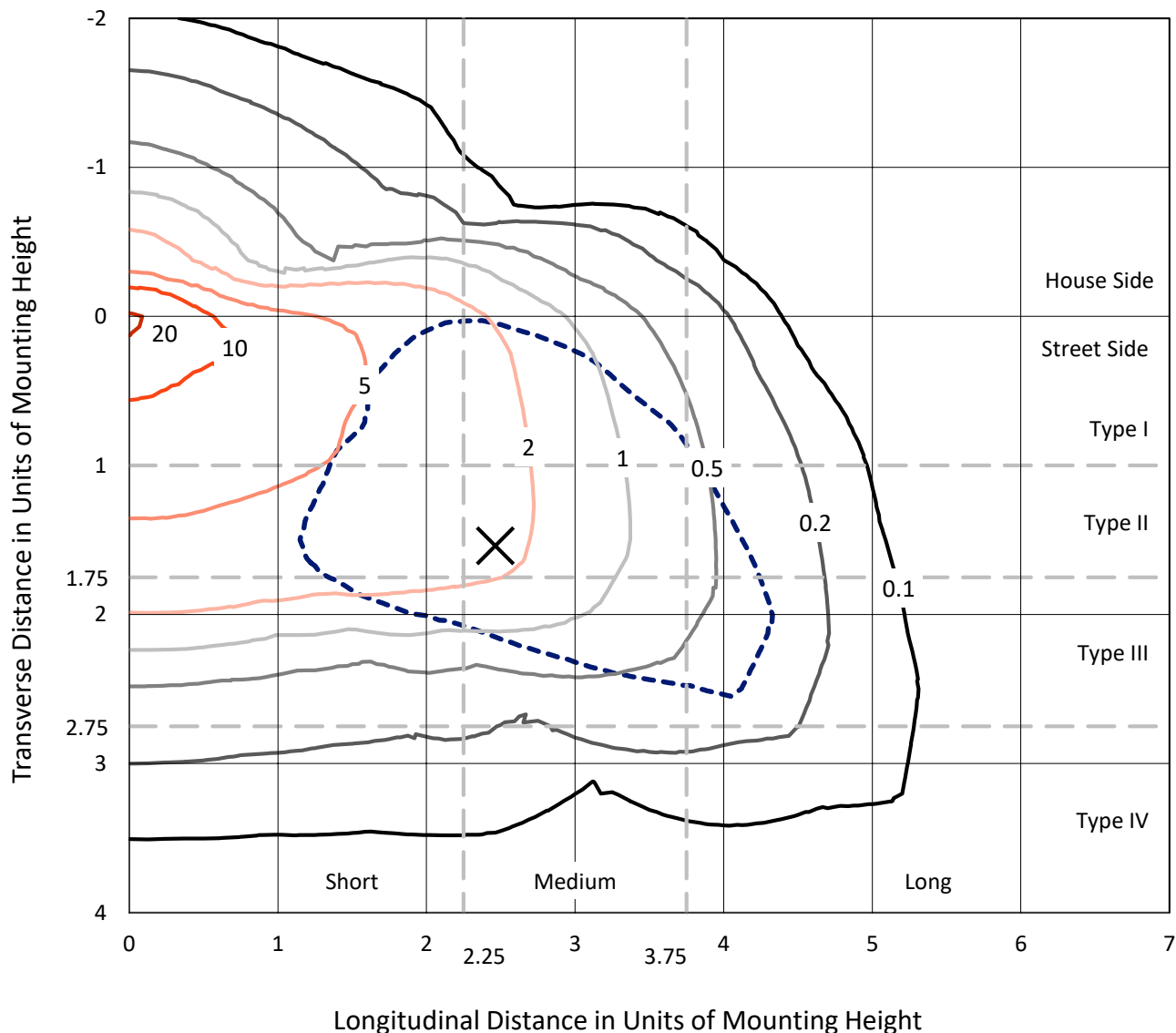
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

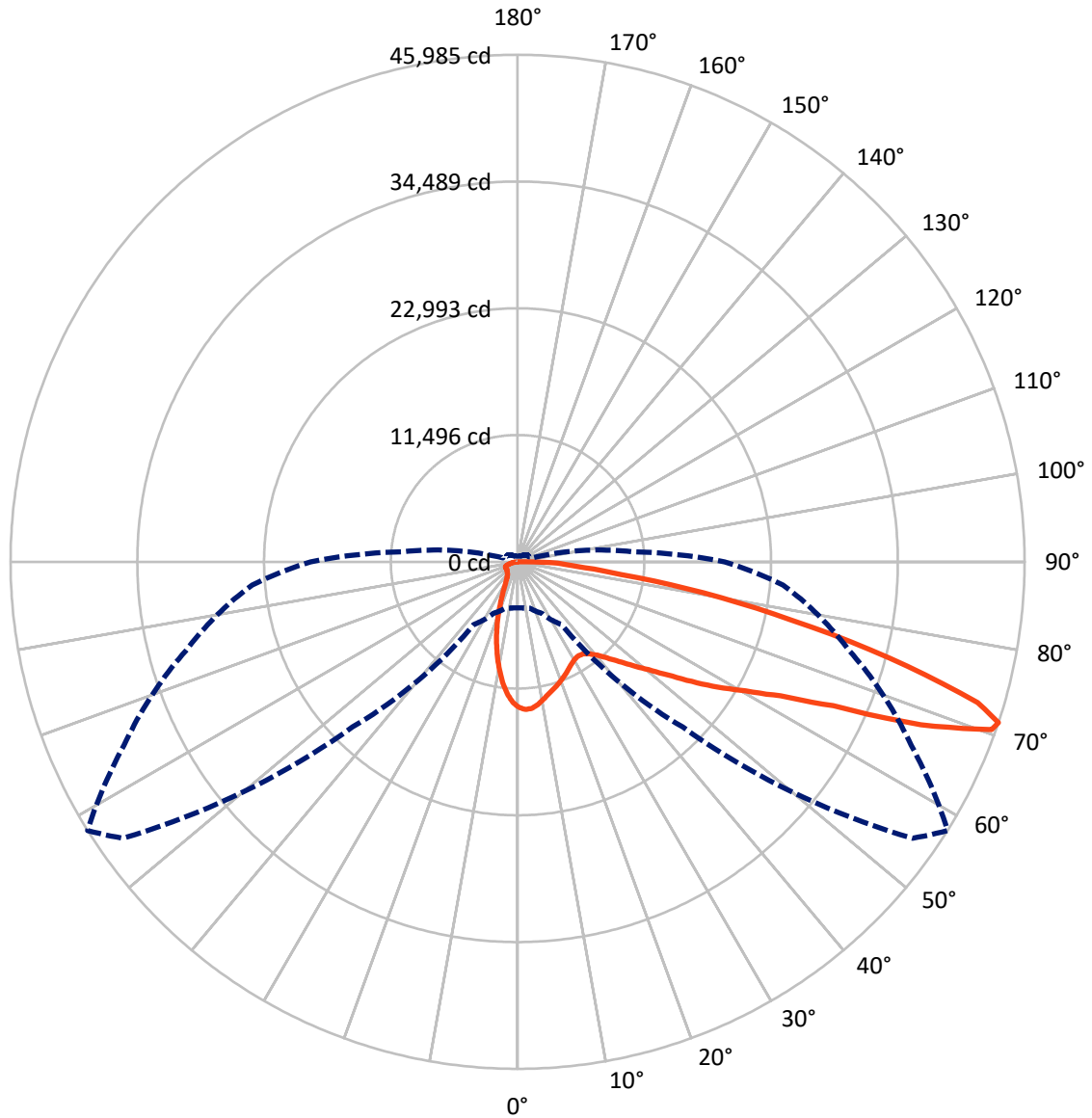
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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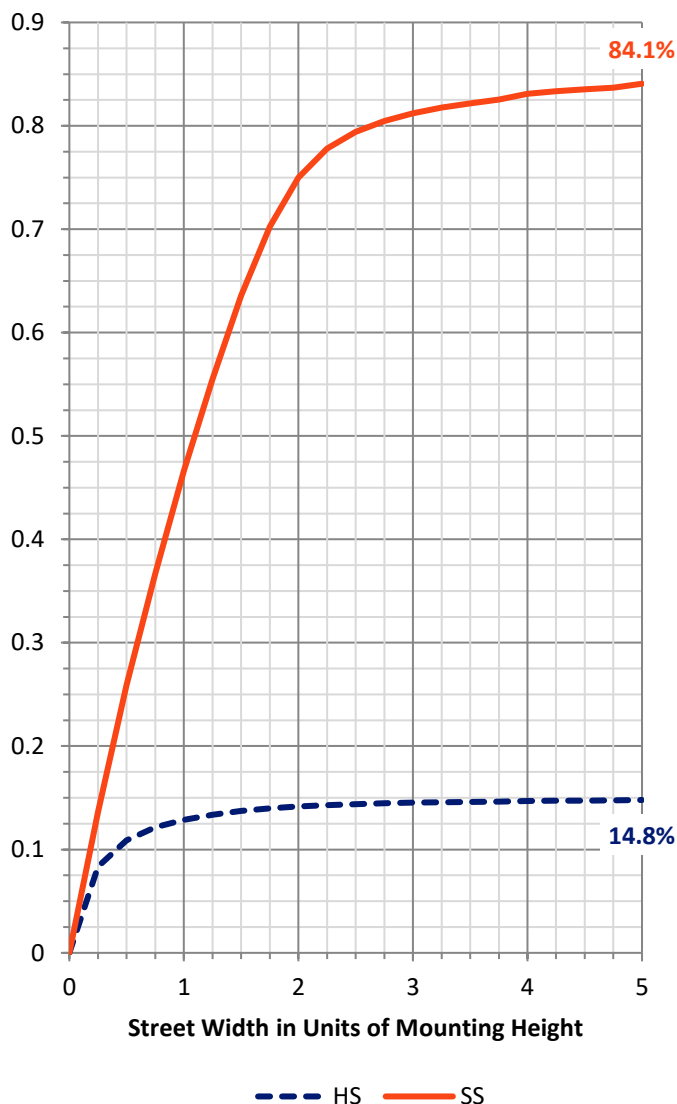
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7115.7	0.0	7115.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	40478.9	0.0	40478.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	47594.6	0.0	47594.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.6	2.4
10°-20°	2529.7	5.3
20°-30°	3214.9	6.8
30°-40°	4095.2	8.6
40°-50°	5807.2	12.2
50°-60°	8986.8	18.9
60°-70°	12234.4	25.7
70°-80°	8161.8	17.1
80°-90°	1427.0	3.0
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°	47594.6	100.0
0°-180°	47594.6	100.0

Coefficient of Utilization



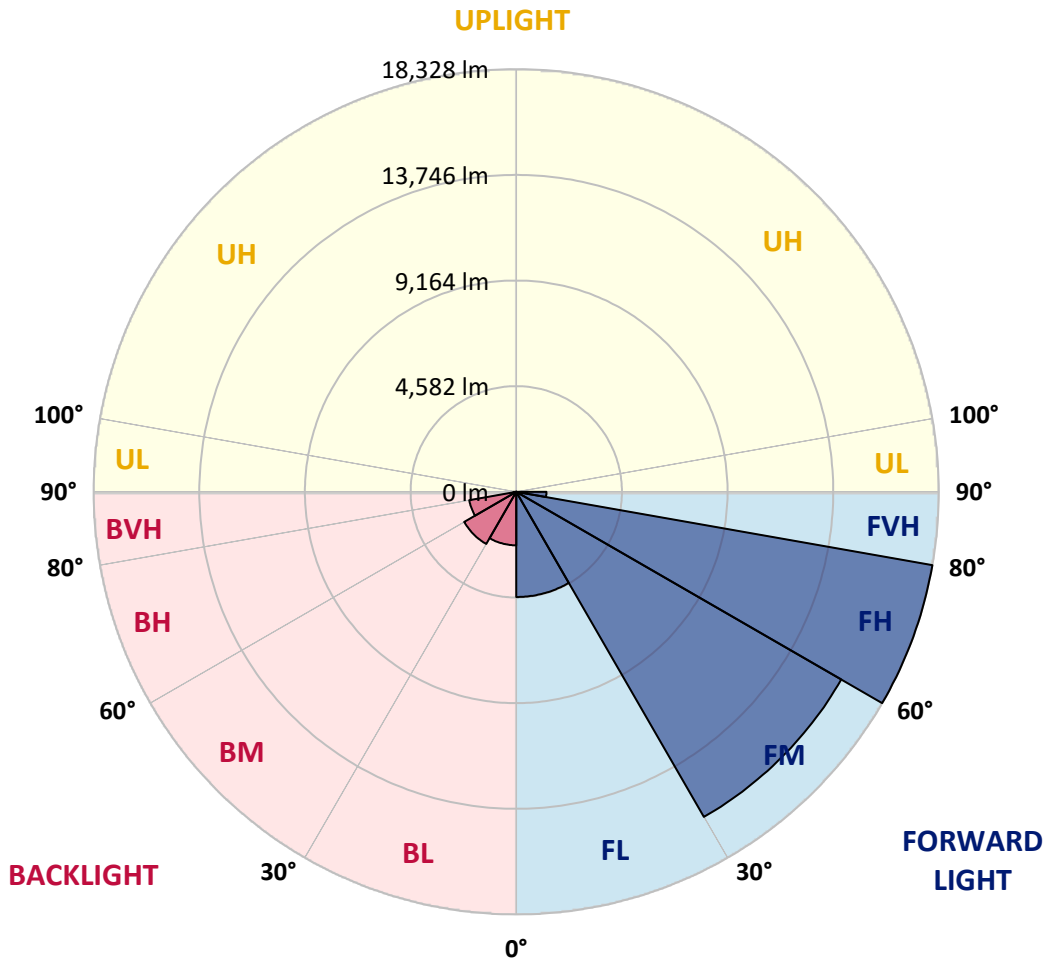
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4562.7	9.6			
FM (30°-60°)	16279.7	34.2			
FH (60°-80°)	18328.1	38.5			G5
FVH (80°-90°)	1308.4	2.7			G5
BL (0°-30°)	2319.5	4.9	B3/2500		
BM (30°-60°)	2609.5	5.5	B3/5000		
BH (60°-80°)	2068.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	118.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9
2.5°	13536.7	13518.4	13525.1	13511.8	13480.3	13448.8	13402.5	13410.7	13346.1	13249.9	13130.5
5°	13281.4	13274.7	13324.5	13352.7	13375.9	13357.6	13344.4	13361.0	13266.4	13133.8	12926.6
7.5°	12745.9	12673.0	12735.9	12830.5	12920.0	12987.9	13077.4	13089.1	13029.4	12890.1	12618.3
10°	11984.9	11915.3	12008.1	12155.7	12334.7	12497.2	12677.9	12711.1	12722.7	12596.7	12266.8
12.5°	11195.8	11142.7	11235.6	11442.8	11739.5	11989.9	12278.4	12328.1	12430.9	12346.4	11941.8
15°	10489.5	10469.6	10582.4	10786.3	11127.8	11510.8	11926.9	12018.1	12192.2	12164.0	11688.1
17.5°	9879.4	9874.4	9960.7	10174.5	10552.5	11036.6	11577.1	11731.3	11989.9	12023.0	11479.3
20°	9425.1	9415.2	9474.9	9632.4	10022.0	10570.7	11199.1	11411.3	11784.4	11900.3	11263.7
22.5°	9181.4	9179.7	9181.4	9256.0	9574.4	10084.9	10831.0	11089.7	11583.7	11802.5	11025.0
25°	9140.0	9135.0	9098.5	9090.2	9270.9	9678.8	10466.3	10751.5	11393.0	11734.6	10797.8
27.5°	9247.8	9254.4	9206.3	9128.3	9164.8	9411.9	10149.7	10454.7	11240.5	11721.3	10640.3
30°	9471.5	9468.2	9426.8	9345.6	9274.3	9312.4	9924.1	10229.2	11137.8	11779.3	10532.6
32.5°	9718.6	9736.8	9728.5	9683.7	9577.6	9425.1	9856.1	10154.6	11107.9	11918.6	10486.2
35°	10015.3	10035.3	10094.9	10129.7	10005.4	9760.0	10002.1	10260.7	11194.1	12180.5	10560.8
37.5°	10297.1	10348.6	10516.1	10663.6	10557.5	10283.9	10390.0	10574.1	11461.0	12593.4	10761.4
40°	10622.2	10666.9	10940.5	11253.7	11237.2	10953.7	11015.1	11137.8	11931.9	13185.2	11124.4
42.5°	10942.1	11031.7	11427.9	11872.2	11999.8	11749.5	11847.3	11912.0	12595.0	13969.4	11757.8
45°	11368.1	11464.4	12014.7	12550.3	12848.6	12707.8	12863.6	12888.4	13428.9	15037.1	12677.9
47.5°	12013.1	12122.5	12764.2	13326.2	13782.1	13797.0	14054.0	14044.0	14470.1	16259.0	13836.8
50°	13017.8	13175.3	13700.8	14226.4	14780.1	15088.5	15431.6	15383.6	15718.5	17560.4	15171.4
52.5°	14334.2	14407.1	14796.7	15184.7	15872.6	16564.0	17056.5	17013.3	17134.3	18898.3	16686.7
55°	15698.6	15753.3	15914.1	16126.3	17051.4	18178.8	19220.0	19152.0	18845.3	20287.6	18183.8
57.5°	16925.5	17036.5	17147.6	17235.5	18238.5	19866.6	21433.2	21438.3	20702.2	21786.4	19730.6
60°	17116.1	17213.9	17948.4	18641.4	20269.5	22118.0	23802.4	23752.7	22623.7	23412.8	21454.8
62.5°	15129.9	15350.4	16577.3	18420.9	22225.7	26236.2	26824.8	26763.4	24921.5	25417.2	23462.5
65°	10842.7	11093.0	12573.5	15343.8	21277.4	30773.9	32279.2	31453.6	28054.9	27882.4	25813.5
67.5°	6255.2	6315.0	6956.5	9181.4	16200.9	31010.9	40600.2	39444.6	32920.8	30679.3	26964.0
70°	4625.5	4623.8	4776.4	5650.1	8767.0	25309.4	44557.6	45593.8	38043.8	31599.5	25337.6
71°	4182.8	4187.9	4358.6	5142.8	6943.3	21184.6	43717.1	45985.0	39393.2	31145.2	24160.5
72.5°	3577.7	3594.3	3831.4	4612.3	5840.8	14609.4	40096.1	43637.4	40033.2	30024.4	22318.6
75°	2714.0	2752.1	3080.3	3887.7	5338.4	7409.2	29427.6	34845.7	35563.5	26493.1	16583.9
77.5°	1936.4	1979.5	2350.9	3269.4	5074.8	5583.8	19707.4	25417.2	26171.6	16978.5	7480.4
80°	1223.5	1274.9	1555.1	2601.3	4768.1	5301.9	12384.5	17084.6	14271.1	5432.9	1903.2
82.5°	717.9	757.6	964.9	1699.3	3894.4	5106.3	7286.5	9469.9	5554.0	1641.3	865.4
85°	416.1	434.4	601.8	1082.6	2828.4	4819.5	5353.3	5293.6	2410.6	802.4	409.5
87.5°	193.9	215.6	356.4	565.4	1570.0	3493.2	4230.9	3655.7	1498.8	376.3	192.3
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°	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9	13186.9
2.5°	13072.5	13044.3	12926.6	12822.2	12712.7	12570.1	12412.7	12392.8	12296.6	12314.9	12281.7
5°	12813.9	12742.5	12459.1	12202.1	11898.8	11626.8	11331.7	11195.8	11000.1	10986.9	10937.1
7.5°	12444.2	12311.5	11872.2	11384.7	10897.3	10433.1	9973.9	9672.2	9363.8	9232.8	9221.2
10°	12028.0	11802.5	11155.9	10434.8	9731.9	9053.8	8397.2	7911.4	7473.8	7266.5	7258.2
12.5°	11633.4	11300.2	10413.2	9431.7	8470.2	7591.5	6691.3	6053.0	5504.2	5320.2	5242.3
15°	11298.6	10829.3	9690.4	8435.3	7268.2	6048.0	5023.5	4352.0	3844.7	3668.9	3635.7
17.5°	10973.6	10370.2	8949.3	7429.0	6018.2	4676.9	3650.6	3151.6	2881.5	2810.1	2808.4
20°	10650.3	9897.6	8175.1	6399.5	4809.6	3498.1	2806.8	2583.0	2491.8	2483.5	2470.3
22.5°	10283.9	9397.0	7361.1	5366.6	3753.5	2750.5	2385.7	2296.2	2284.6	2314.4	2314.4
25°	9940.7	8899.5	6535.5	4355.3	2919.6	2294.5	2130.4	2112.2	2143.7	2196.7	2201.7
27.5°	9620.7	8420.4	5729.7	3456.7	2339.3	2021.0	1953.0	1974.5	2031.0	2092.3	2093.9
30°	9357.1	7967.8	4947.2	2723.9	1976.2	1817.1	1805.4	1848.6	1909.9	1958.0	1969.6
32.5°	9153.2	7581.6	4191.1	2190.1	1739.1	1664.5	1674.5	1711.0	1749.1	1775.6	1793.9
35°	9058.7	7250.0	3493.2	1846.9	1588.3	1546.8	1560.1	1580.0	1596.6	1616.4	1631.3
37.5°	9075.3	6993.0	2869.8	1633.0	1487.1	1465.6	1465.6	1465.6	1465.6	1475.6	1477.2
40°	9229.5	6845.5	2362.5	1497.1	1419.1	1395.9	1377.7	1361.2	1347.9	1354.5	1351.2
42.5°	9624.1	6832.2	1991.1	1410.8	1364.4	1326.3	1289.8	1266.6	1250.0	1256.7	1260.0
45°	10293.9	6998.0	1740.8	1349.5	1313.0	1255.0	1208.6	1183.7	1172.2	1193.7	1197.0
47.5°	11161.0	7359.4	1588.3	1304.7	1264.9	1188.7	1139.0	1115.8	1119.1	1150.6	1158.8
50°	12278.4	7946.3	1515.3	1276.6	1231.8	1132.3	1081.0	1061.0	1071.0	1115.8	1125.7
52.5°	13505.2	8791.9	1523.6	1268.3	1210.3	1090.9	1036.2	1013.0	1029.5	1071.0	1079.3
55°	14921.1	9808.1	1661.2	1279.9	1178.8	1064.4	999.7	960.0	973.2	1011.3	1017.9
57.5°	16494.4	10972.0	1938.1	1276.6	1139.0	1039.5	961.5	901.9	911.8	935.1	941.7
60°	18132.4	12377.8	2367.4	1286.6	1120.7	1009.6	910.2	835.6	832.2	852.2	855.4
62.5°	20098.7	14004.2	2858.2	1293.2	1132.3	971.5	842.2	769.3	759.3	764.3	767.6
65°	22124.6	15181.3	2674.2	1266.6	1168.8	940.0	782.5	704.6	686.4	683.0	684.7
67.5°	22187.6	13919.7	1875.1	1213.6	1183.7	923.4	737.8	649.9	620.0	608.5	606.8
70°	19898.0	11308.5	1460.6	1157.2	1124.1	896.9	696.3	605.1	560.3	542.2	540.5
71°	18780.7	10410.0	1384.4	1129.0	1079.3	870.4	678.1	585.2	538.8	519.0	515.6
72.5°	17028.2	9332.2	1291.5	1084.2	993.1	802.4	643.2	557.1	509.0	485.8	480.8
75°	12220.3	6102.8	1109.1	966.6	822.3	640.0	563.7	500.7	459.3	431.0	427.8
77.5°	4708.4	2428.8	838.9	804.1	630.0	500.7	464.2	432.7	402.9	374.7	373.0
80°	1455.6	1085.9	611.7	605.1	455.9	373.0	361.4	353.1	341.5	311.7	305.1
82.5°	777.6	623.4	421.1	391.2	298.4	248.7	262.0	265.3	266.9	235.4	232.1
85°	371.4	330.0	237.1	222.2	174.1	139.3	160.8	174.1	175.8	144.2	134.3
87.5°	177.4	172.4	111.0	84.6	64.6	46.4	56.4	69.6	76.3	54.7	48.1
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)