

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: P269130

Luminaire Tested: **GLEON-AF-03-LED-E1-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10956.3 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 96
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: 25 FT

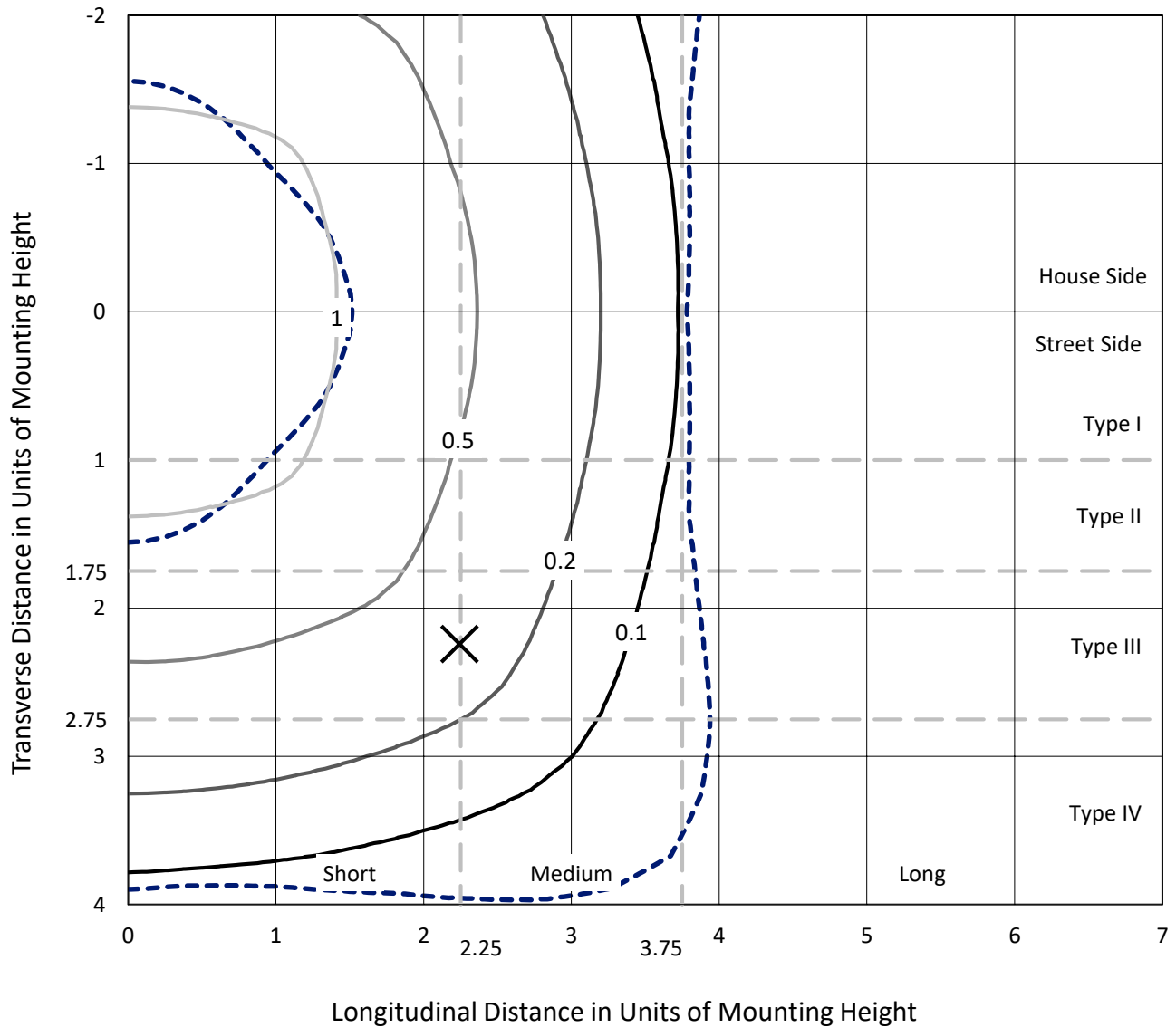


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

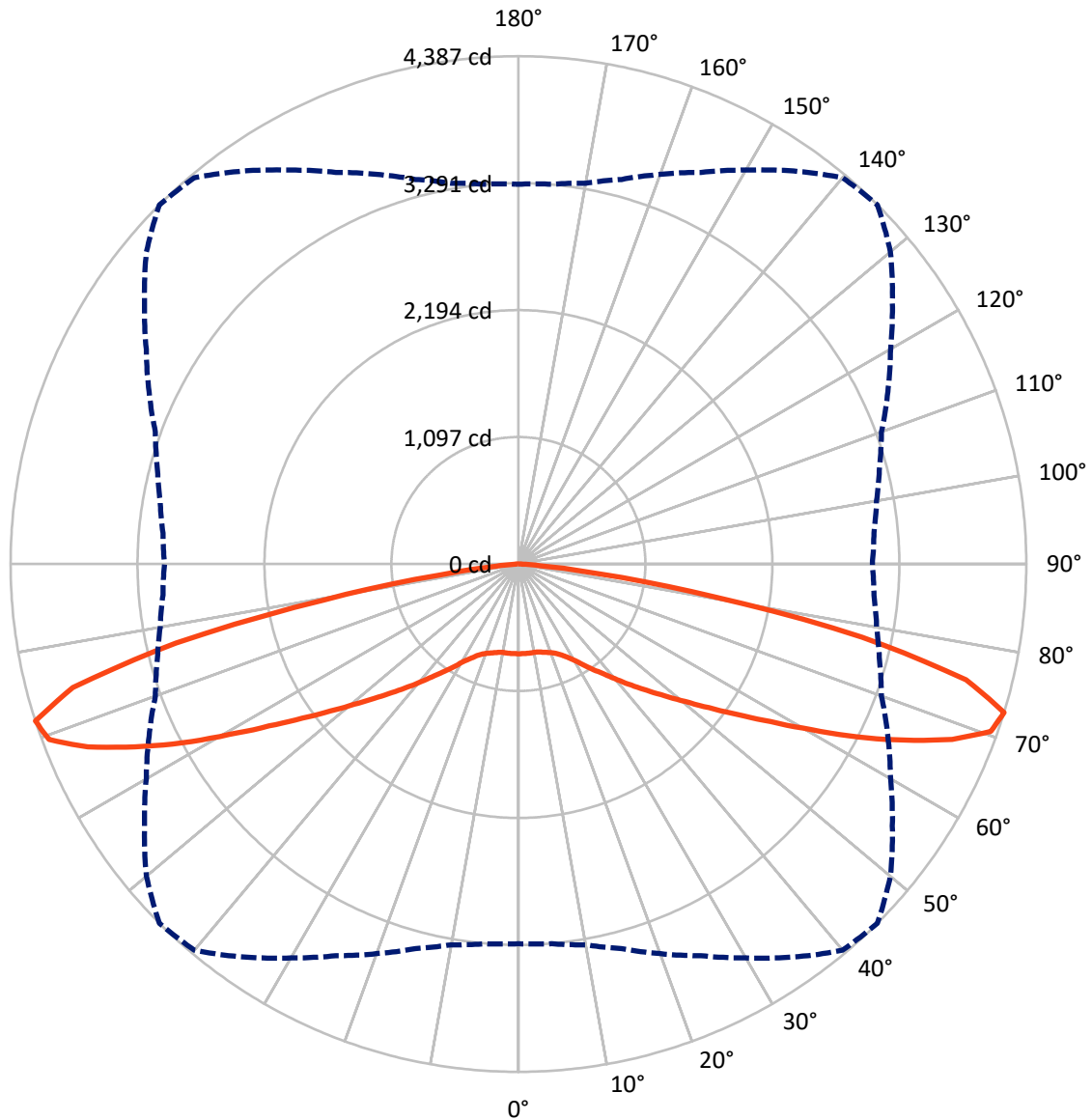


Based on 20 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5478.1	0.0	5478.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5478.1	0.0	5478.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	10956.3	0.0	10956.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	0.7
10°-20°	225.0	2.1
20°-30°	411.2	3.8
30°-40°	709.0	6.5
40°-50°	1212.0	11.1
50°-60°	1964.4	17.9
60°-70°	3258.9	29.7
70°-80°	2870.3	26.2
80°-90°	231.4	2.1
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°	10956.3	100.0
0°-180°	10956.3	100.0



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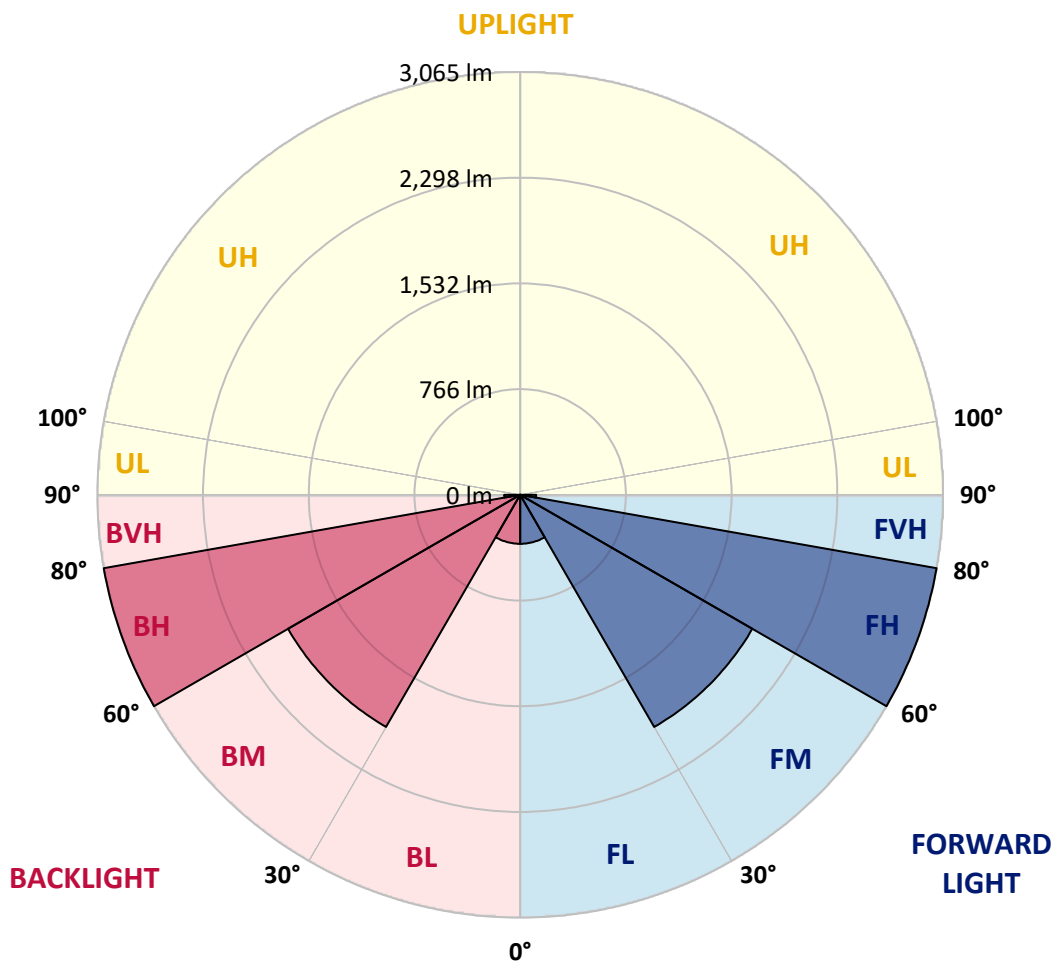
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.1	3.2			
FM	(30°-60°)	1942.7	17.7			
FH	(60°-80°)	3064.6	28.0			G2/5000
FVH	(80°-90°)	115.7	1.1			G2/225
BL	(0°-30°)	355.1	3.2	B1/500		
BM	(30°-60°)	1942.7	17.7	B2/2500		
BH	(60°-80°)	3064.6	28.0	B4/5000		G2/5000
BVH	(80°-90°)	115.7	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9
2.5°	775.9	776.3	776.9	776.3	776.3	775.9	775.3	775.9	775.3	774.3	774.9
5°	778.4	779.4	779.4	778.4	778.9	778.4	777.4	777.9	776.9	775.3	775.3
7.5°	781.3	782.0	782.0	780.8	781.3	780.4	779.4	778.9	777.9	775.9	774.3
10°	785.9	786.5	785.9	784.8	784.8	783.4	780.8	779.9	777.9	774.9	773.4
12.5°	791.0	791.4	791.0	789.9	789.4	786.9	784.8	783.4	782.0	779.4	776.9
15°	798.0	799.0	798.0	796.0	794.6	792.5	791.4	791.9	792.5	790.5	788.0
17.5°	811.1	811.6	810.0	805.5	803.5	801.5	801.5	802.5	804.1	803.1	800.5
20°	835.2	833.6	830.2	824.6	822.0	818.5	818.0	818.5	818.5	818.0	816.1
22.5°	865.2	864.3	859.8	852.8	849.3	847.2	844.1	841.7	841.3	839.6	837.7
25°	901.4	901.0	895.5	889.4	886.9	884.4	881.9	878.5	875.4	871.9	869.9
27.5°	947.7	945.7	937.7	934.6	931.2	929.7	926.2	922.1	919.5	915.1	912.6
30°	998.5	998.5	992.0	990.9	990.9	987.4	983.5	976.4	971.8	967.4	965.8
32.5°	1049.2	1049.7	1043.2	1045.2	1046.7	1049.2	1050.3	1047.8	1044.6	1044.2	1041.1
35°	1122.6	1120.5	1114.1	1115.5	1115.1	1114.5	1114.5	1120.0	1121.2	1122.2	1116.1
37.5°	1213.6	1213.6	1207.1	1207.1	1204.0	1201.0	1197.0	1200.5	1206.1	1207.5	1203.5
40°	1317.5	1321.0	1313.1	1312.6	1313.5	1304.0	1299.5	1305.0	1308.6	1314.6	1310.1
42.5°	1440.3	1437.6	1429.7	1428.7	1423.2	1420.1	1416.1	1420.6	1426.1	1430.1	1431.7
45°	1557.8	1555.8	1546.7	1546.7	1541.2	1538.6	1540.8	1548.1	1550.7	1556.3	1561.9
47.5°	1673.8	1671.3	1665.3	1667.9	1668.3	1672.9	1679.4	1686.4	1693.5	1701.0	1703.5
50°	1792.5	1792.9	1786.4	1792.5	1800.1	1812.6	1830.1	1841.6	1856.3	1865.8	1868.8
52.5°	1900.5	1902.5	1909.5	1923.6	1938.7	1963.2	1993.5	2021.5	2045.7	2061.8	2060.8
55°	2030.1	2033.1	2050.2	2074.4	2099.0	2136.2	2180.8	2230.6	2270.8	2293.9	2279.4
57.5°	2195.9	2202.6	2221.6	2254.2	2290.9	2339.1	2400.5	2475.4	2537.7	2568.9	2545.2
60°	2423.5	2427.6	2450.8	2486.9	2531.2	2590.9	2672.8	2773.3	2861.3	2902.6	2875.4
62.5°	2723.7	2731.1	2749.7	2786.5	2831.6	2899.5	2999.5	3125.2	3234.6	3292.0	3230.7
65°	3081.8	3106.0	3121.6	3158.8	3201.0	3272.9	3377.4	3512.1	3629.6	3667.3	3596.5
67.5°	3436.6	3457.8	3485.0	3527.6	3570.4	3651.3	3748.2	3878.9	4008.0	4042.3	3932.2
70°	3592.0	3604.0	3646.2	3704.5	3786.4	3881.8	3994.0	4140.6	4300.5	4328.7	4188.9
72.5°	3280.9	3292.9	3340.2	3439.3	3581.9	3733.6	3929.1	4144.7	4355.7	4387.4	4194.9
75°	2481.4	2461.7	2531.7	2662.8	2855.3	3066.9	3340.2	3649.3	3954.2	3994.0	3764.3
77.5°	1282.4	1279.8	1332.6	1495.5	1725.1	1965.9	2266.9	2616.0	2914.6	3035.2	2848.3
80°	361.3	365.3	390.5	471.3	605.5	779.4	1014.5	1341.7	1585.9	1710.6	1606.0
82.5°	141.8	152.7	162.4	177.3	195.0	220.7	294.5	438.3	587.9	702.6	575.4
85°	50.8	54.3	76.8	91.0	92.4	97.5	111.0	129.6	156.2	186.4	153.3
87.5°	19.1	21.1	24.7	40.8	40.2	36.7	44.7	46.7	35.2	32.2	39.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	775.9	775.9	775.9	775.9	775.9	775.9	775.9	775.9
2.5°	773.9	774.3	774.3	774.9	775.3	775.3	776.3	776.3
5°	774.3	774.3	773.4	773.9	773.4	773.4	773.9	773.9
7.5°	773.4	772.8	771.9	771.4	770.3	770.3	770.3	770.3
10°	771.9	771.4	770.3	769.8	769.4	769.4	769.4	769.4
12.5°	775.9	774.3	773.4	772.8	772.8	772.8	772.8	772.8
15°	786.5	783.0	780.4	780.4	780.8	782.0	782.0	783.0
17.5°	799.5	795.4	792.9	791.0	791.9	793.5	794.6	795.4
20°	815.0	813.1	809.6	807.5	807.5	809.6	810.5	811.1
22.5°	836.7	835.2	833.6	831.1	831.1	832.2	834.2	834.2
25°	868.8	867.9	866.9	864.8	864.3	864.3	865.2	866.3
27.5°	909.1	909.5	908.5	908.0	906.5	906.0	907.6	907.0
30°	962.9	965.3	967.8	965.8	963.3	961.8	960.3	958.3
32.5°	1035.7	1032.6	1030.6	1027.1	1022.6	1018.6	1015.5	1012.0
35°	1104.6	1099.4	1097.5	1100.6	1100.0	1097.5	1094.0	1090.9
37.5°	1188.9	1187.9	1188.9	1194.4	1193.5	1196.0	1188.9	1188.5
40°	1295.4	1296.4	1303.5	1310.1	1313.5	1317.0	1313.1	1309.0
42.5°	1419.1	1418.7	1421.1	1430.1	1436.2	1440.3	1431.7	1430.6
45°	1549.8	1546.3	1548.1	1555.8	1561.9	1566.4	1556.8	1556.8
47.5°	1693.5	1687.5	1680.9	1689.4	1692.9	1696.0	1688.5	1685.8
50°	1853.7	1841.2	1827.2	1830.7	1830.7	1829.7	1820.1	1819.5
52.5°	2037.6	2014.5	1988.9	1979.3	1973.8	1967.8	1951.3	1943.3
55°	2249.3	2214.5	2174.3	2149.7	2136.7	2120.1	2092.4	2084.8
57.5°	2496.5	2442.2	2372.9	2342.7	2313.6	2286.5	2255.7	2247.2
60°	2789.4	2709.6	2617.7	2561.7	2530.2	2504.0	2472.3	2470.9
62.5°	3116.1	2989.9	2886.0	2835.7	2812.6	2789.4	2759.2	2763.2
65°	3448.2	3316.5	3219.0	3178.4	3156.7	3137.7	3107.5	3112.1
67.5°	3775.8	3654.8	3547.8	3506.1	3481.9	3457.8	3430.6	3435.2
70°	4011.0	3860.7	3740.2	3647.7	3589.9	3524.6	3482.4	3471.8
72.5°	3943.6	3712.1	3520.5	3337.2	3229.6	3142.2	3083.0	3057.3
75°	3413.0	3096.5	2850.2	2625.0	2498.5	2395.5	2320.6	2273.9
77.5°	2534.7	2178.8	1887.9	1628.6	1423.6	1286.0	1188.9	1126.1
80°	1387.4	1055.2	771.4	542.1	398.5	331.1	292.5	273.9
82.5°	432.2	279.0	205.5	177.3	164.7	157.8	146.2	127.6
85°	137.7	120.6	112.1	107.1	102.0	88.9	61.4	55.8
87.5°	53.3	54.7	54.3	51.3	52.2	37.6	30.2	26.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)