

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: P190890

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190890
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-02-LED-E1-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13122.4 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 113
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

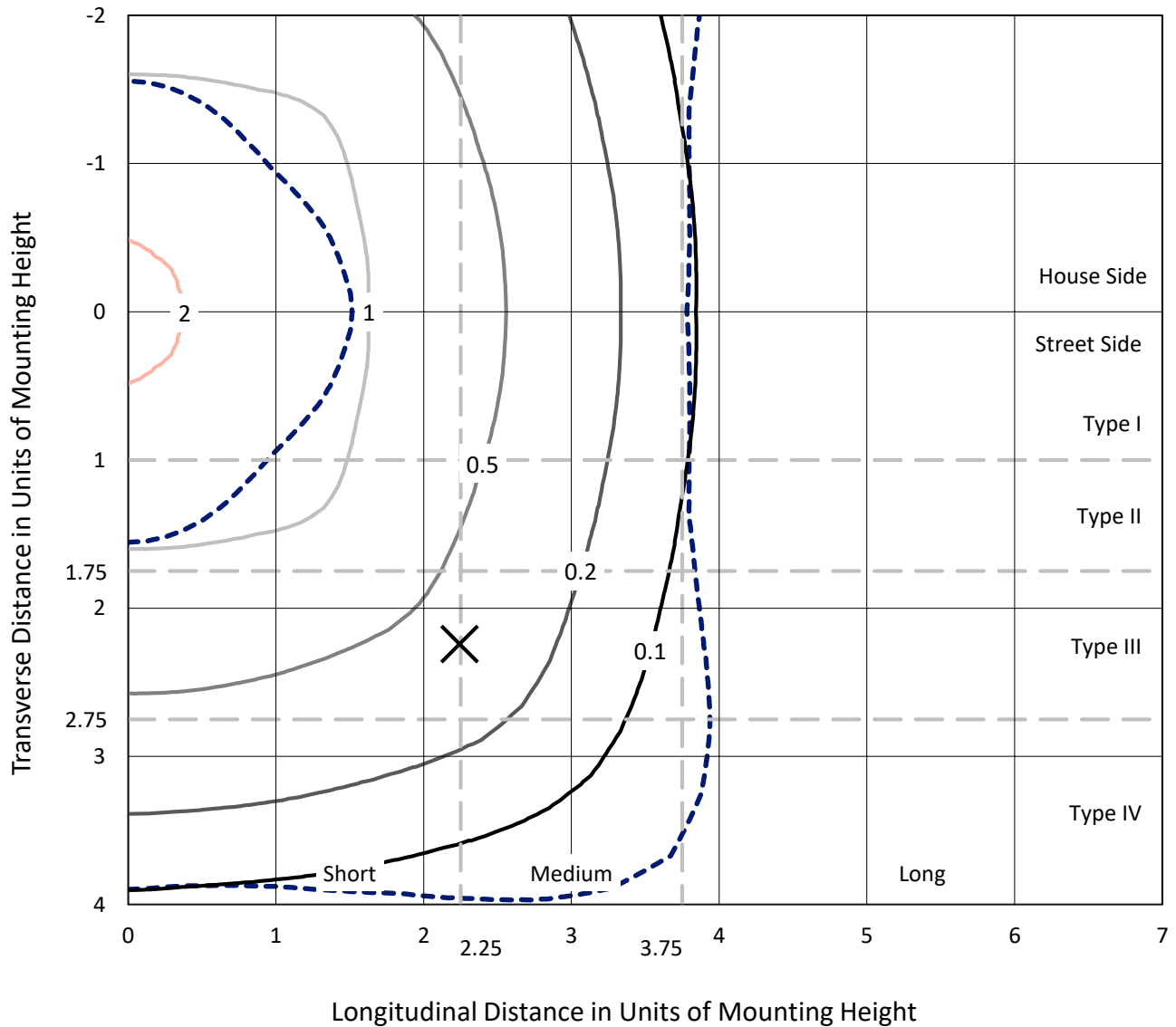


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

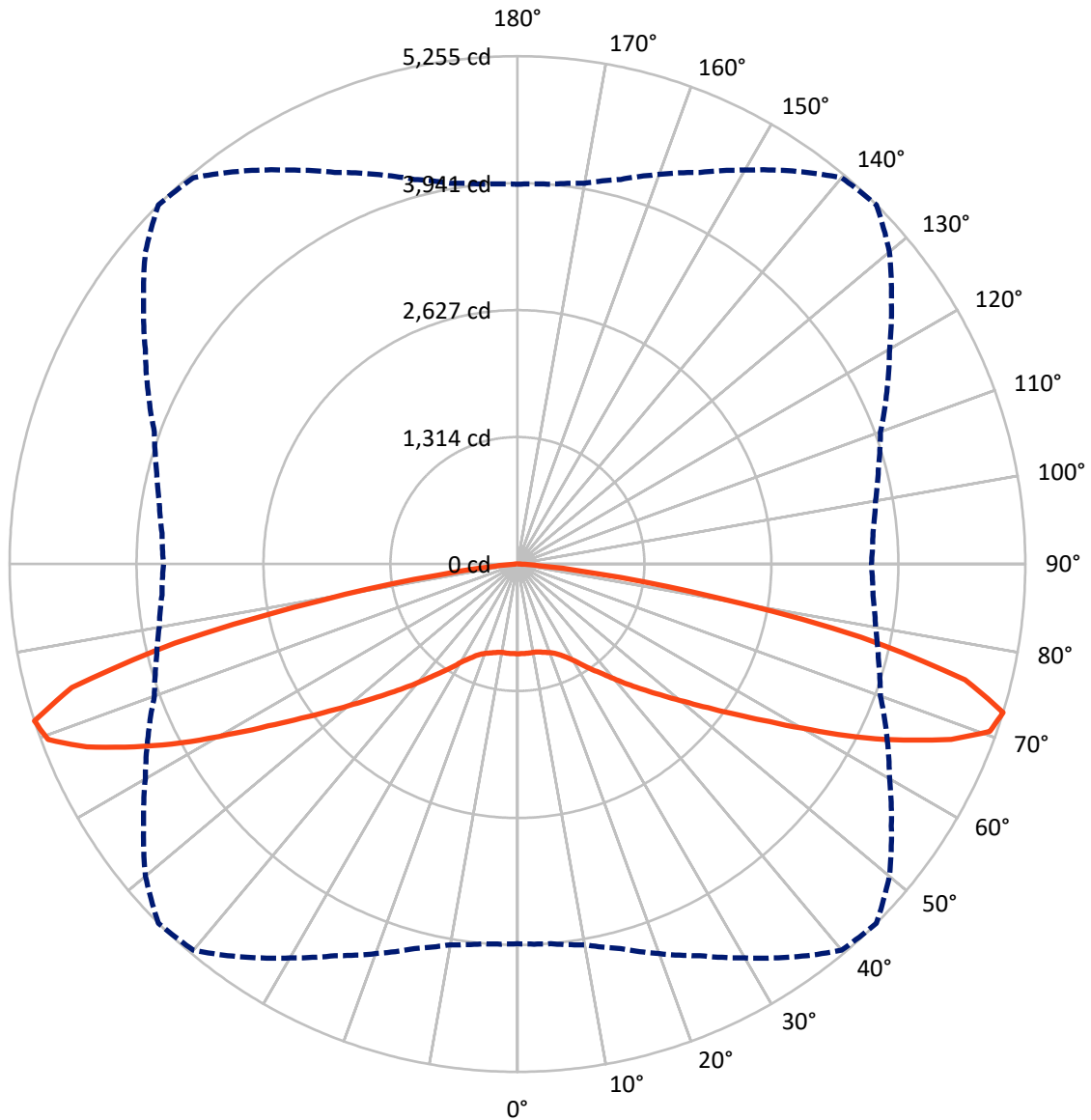


Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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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	6561.2	0.0	6561.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6561.2	0.0	6561.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13122.4	0.0	13122.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	0.7
10°-20°	269.5	2.1
20°-30°	492.5	3.8
30°-40°	849.1	6.5
40°-50°	1451.6	11.1
50°-60°	2352.8	17.9
60°-70°	3903.2	29.7
70°-80°	3437.8	26.2
80°-90°	277.2	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°	13122.4	100.0
0°-180°	13122.4	100.0



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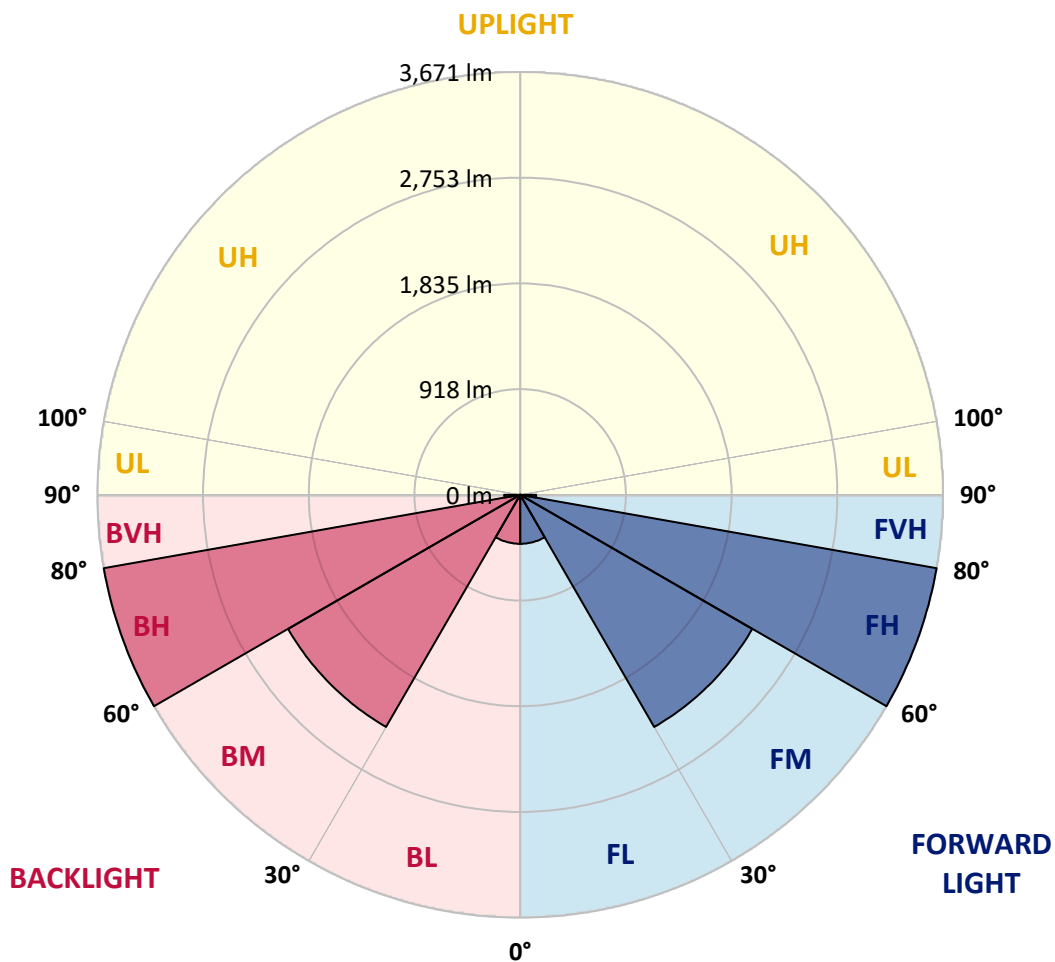
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.4	3.2			
FM (30°-60°)	2326.7	17.7			
FH (60°-80°)	3670.5	28.0			G2/5000
FVH (80°-90°)	138.6	1.1			G2/225
BL (0°-30°)	425.4	3.2	B1/500		
BM (30°-60°)	2326.7	17.7	B2/2500		
BH (60°-80°)	3670.5	28.0	B4/5000		G2/5000
BVH (80°-90°)	138.6	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°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	929.2	929.9	930.5	929.9	929.9	929.2	928.6	929.2	928.6	927.5	928.0
5°	932.3	933.4	933.4	932.3	932.9	932.3	931.1	931.7	930.5	928.6	928.6
7.5°	935.9	936.5	936.5	935.3	935.9	934.7	933.4	932.9	931.7	929.2	927.5
10°	941.3	941.9	941.3	940.1	940.1	938.3	935.3	934.1	931.7	928.0	926.3
12.5°	947.4	948.0	947.4	946.1	945.5	942.5	940.1	938.3	936.5	933.4	930.5
15°	955.7	957.0	955.7	953.4	951.5	949.1	948.0	948.5	949.1	946.7	943.7
17.5°	971.4	972.0	970.2	964.7	962.4	959.9	959.9	961.2	963.0	961.8	958.8
20°	1000.2	998.5	994.3	987.7	984.7	980.4	979.8	980.4	980.4	979.8	977.4
22.5°	1036.4	1035.2	1029.8	1021.3	1017.1	1014.8	1011.1	1008.1	1007.5	1005.7	1003.3
25°	1079.7	1079.1	1072.6	1065.3	1062.2	1059.3	1056.3	1052.0	1048.4	1044.2	1041.8
27.5°	1135.1	1132.7	1123.1	1119.4	1115.2	1113.5	1109.2	1104.4	1101.4	1096.0	1093.0
30°	1195.9	1195.9	1188.1	1186.8	1186.8	1182.6	1177.8	1169.4	1164.0	1158.6	1156.8
32.5°	1256.7	1257.3	1249.4	1251.9	1253.6	1256.7	1257.9	1254.9	1251.3	1250.7	1247.1
35°	1344.6	1342.1	1334.3	1336.2	1335.6	1335.0	1335.0	1341.5	1342.7	1344.0	1336.7
37.5°	1453.5	1453.5	1445.6	1445.6	1442.1	1438.5	1433.7	1437.9	1444.5	1446.2	1441.4
40°	1578.1	1582.3	1572.7	1572.1	1573.3	1561.8	1556.4	1563.1	1567.3	1574.4	1569.0
42.5°	1724.9	1721.9	1712.3	1711.1	1704.4	1700.9	1696.1	1701.5	1708.1	1712.9	1714.7
45°	1865.8	1863.4	1852.6	1852.6	1845.9	1842.8	1845.3	1854.3	1857.4	1863.9	1870.6
47.5°	2004.8	2001.8	1994.5	1997.6	1998.1	2003.6	2011.4	2019.8	2028.3	2037.3	2040.3
50°	2146.9	2147.5	2139.6	2146.9	2155.9	2170.9	2192.0	2205.8	2223.3	2234.7	2238.3
52.5°	2276.3	2278.6	2287.1	2303.9	2322.0	2351.5	2387.6	2421.3	2450.2	2469.4	2468.2
55°	2431.6	2435.1	2455.6	2484.4	2514.0	2558.5	2612.1	2671.6	2719.8	2747.4	2730.1
57.5°	2630.1	2638.0	2660.8	2700.0	2743.9	2801.7	2875.1	2964.7	3039.4	3076.7	3048.4
60°	2902.7	2907.5	2935.3	2978.6	3031.5	3103.2	3201.3	3321.6	3427.0	3476.3	3443.9
62.5°	3262.1	3271.1	3293.4	3337.3	3391.5	3472.7	3592.5	3743.0	3874.1	3942.8	3869.3
65°	3691.2	3720.1	3738.8	3783.3	3833.8	3919.9	4045.1	4206.4	4347.2	4392.3	4307.5
67.5°	4116.1	4141.4	4173.8	4225.1	4276.2	4373.1	4489.2	4645.7	4800.4	4841.3	4709.6
70°	4302.1	4316.5	4367.1	4436.9	4535.0	4649.4	4783.6	4959.4	5150.8	5184.4	5017.1
72.5°	3929.6	3944.0	4000.6	4119.1	4290.1	4471.8	4706.0	4964.2	5216.9	5254.8	5024.3
75°	2972.0	2948.6	3032.1	3189.3	3419.7	3673.1	4000.6	4370.7	4736.1	4783.6	4508.6
77.5°	1536.0	1532.9	1596.1	1791.1	2066.2	2354.4	2715.0	3133.3	3490.8	3635.3	3411.3
80°	432.7	437.5	467.7	564.6	725.3	933.4	1215.2	1607.0	1899.5	2048.8	1923.6
82.5°	169.7	183.0	194.4	212.5	233.5	264.2	352.7	524.8	704.2	841.4	689.2
85°	60.8	65.0	92.1	108.9	110.8	116.7	133.0	155.3	187.2	223.3	183.5
87.5°	22.9	25.3	29.5	48.8	48.2	43.9	53.6	56.0	42.1	38.6	47.6
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°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	926.9	927.5	927.5	928.0	928.6	928.6	929.9	929.9
5°	927.5	927.5	926.3	926.9	926.3	926.3	926.9	926.9
7.5°	926.3	925.7	924.4	923.8	922.6	922.6	922.6	922.6
10°	924.4	923.8	922.6	922.1	921.5	921.5	921.5	921.5
12.5°	929.2	927.5	926.3	925.7	925.7	925.7	925.7	925.7
15°	941.9	937.7	934.7	934.7	935.3	936.5	936.5	937.7
17.5°	957.6	952.8	949.7	947.4	948.5	950.3	951.5	952.8
20°	976.2	973.8	969.6	967.2	967.2	969.6	970.8	971.4
22.5°	1002.1	1000.2	998.5	995.4	995.4	996.7	999.1	999.1
25°	1040.6	1039.4	1038.2	1035.8	1035.2	1035.2	1036.4	1037.6
27.5°	1088.7	1089.3	1088.1	1087.6	1085.8	1085.1	1087.0	1086.4
30°	1153.2	1156.1	1159.2	1156.8	1153.8	1151.9	1150.1	1147.8
32.5°	1240.4	1236.8	1234.4	1230.2	1224.8	1220.0	1216.4	1212.1
35°	1322.9	1316.8	1314.5	1318.1	1317.5	1314.5	1310.3	1306.6
37.5°	1424.0	1422.8	1424.0	1430.6	1429.4	1432.4	1424.0	1423.4
40°	1551.6	1552.8	1561.2	1569.0	1573.3	1577.5	1572.7	1567.9
42.5°	1699.6	1699.0	1702.1	1712.9	1720.1	1724.9	1714.7	1713.4
45°	1856.1	1852.0	1854.3	1863.4	1870.6	1876.0	1864.5	1864.5
47.5°	2028.3	2021.0	2013.3	2023.5	2027.7	2031.3	2022.3	2019.2
50°	2220.2	2205.2	2188.4	2192.6	2192.6	2191.4	2179.9	2179.3
52.5°	2440.6	2412.8	2382.1	2370.7	2364.1	2356.9	2337.0	2327.4
55°	2693.9	2652.4	2604.2	2574.8	2559.1	2539.3	2506.1	2497.1
57.5°	2990.1	2925.0	2842.0	2805.9	2771.0	2738.4	2701.7	2691.5
60°	3341.0	3245.2	3135.0	3068.2	3030.4	2999.1	2961.1	2959.3
62.5°	3732.1	3581.0	3456.4	3396.3	3368.6	3341.0	3304.8	3309.7
65°	4130.0	3972.2	3855.5	3806.8	3780.9	3758.0	3721.9	3727.3
67.5°	4522.4	4377.3	4249.1	4199.2	4170.3	4141.4	4108.9	4114.3
70°	4804.1	4624.0	4479.6	4368.9	4299.7	4221.4	4170.9	4158.3
72.5°	4723.4	4445.9	4216.6	3997.0	3868.2	3763.4	3692.4	3661.8
75°	4087.8	3708.6	3413.8	3144.1	2992.4	2869.1	2779.4	2723.4
77.5°	3035.8	2609.6	2261.2	1950.7	1705.1	1540.2	1424.0	1348.8
80°	1661.8	1263.9	923.8	649.4	477.3	396.6	350.3	328.1
82.5°	517.6	334.0	246.1	212.5	197.4	188.9	175.1	152.8
85°	164.9	144.4	134.2	128.2	122.1	106.5	73.4	66.8
87.5°	63.8	65.6	65.0	61.4	62.6	45.1	36.1	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)