

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: P190871

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190871
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 12900.4 lumens
Efficiency: N/A
Efficacy: 134.4 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

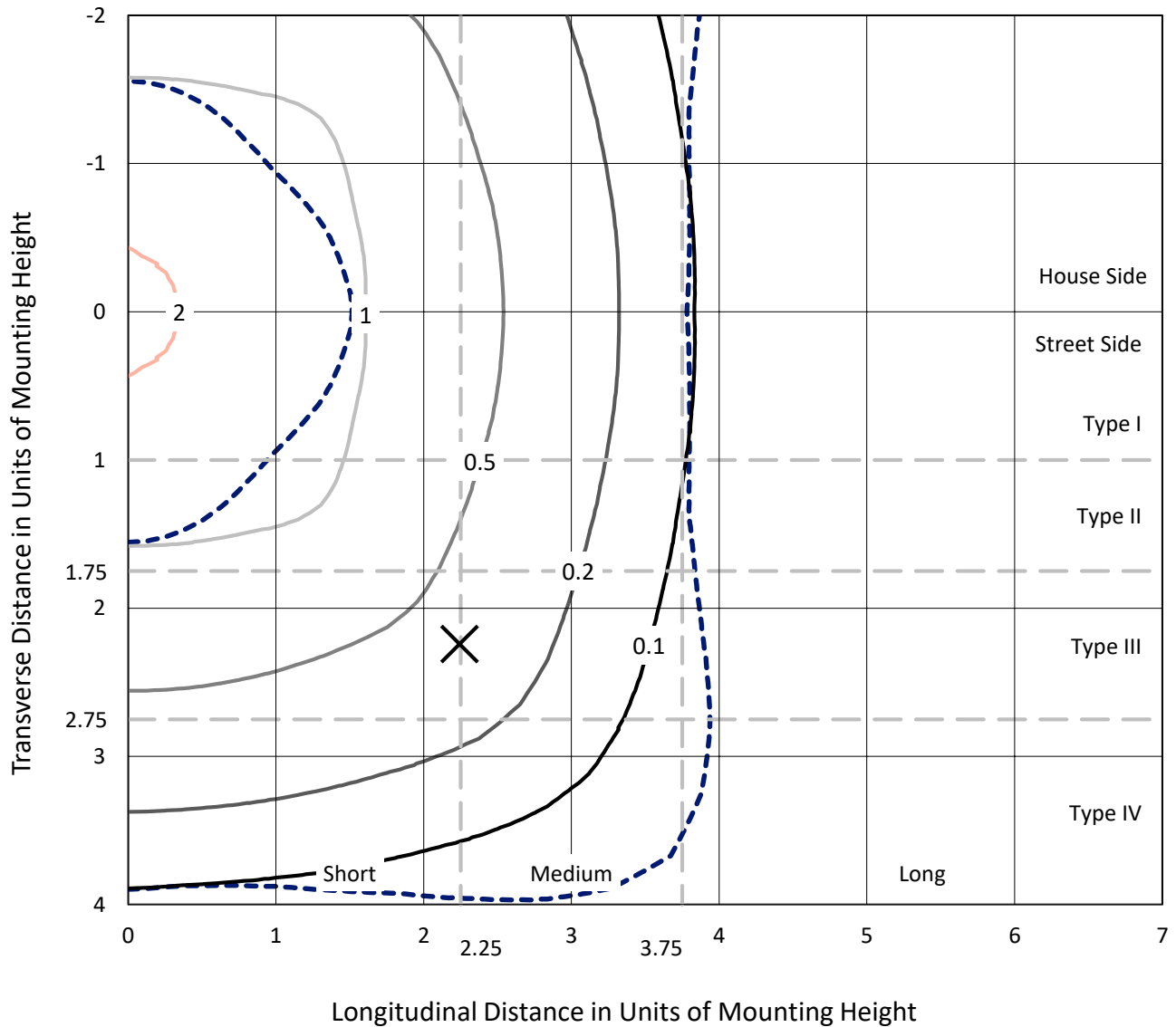
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

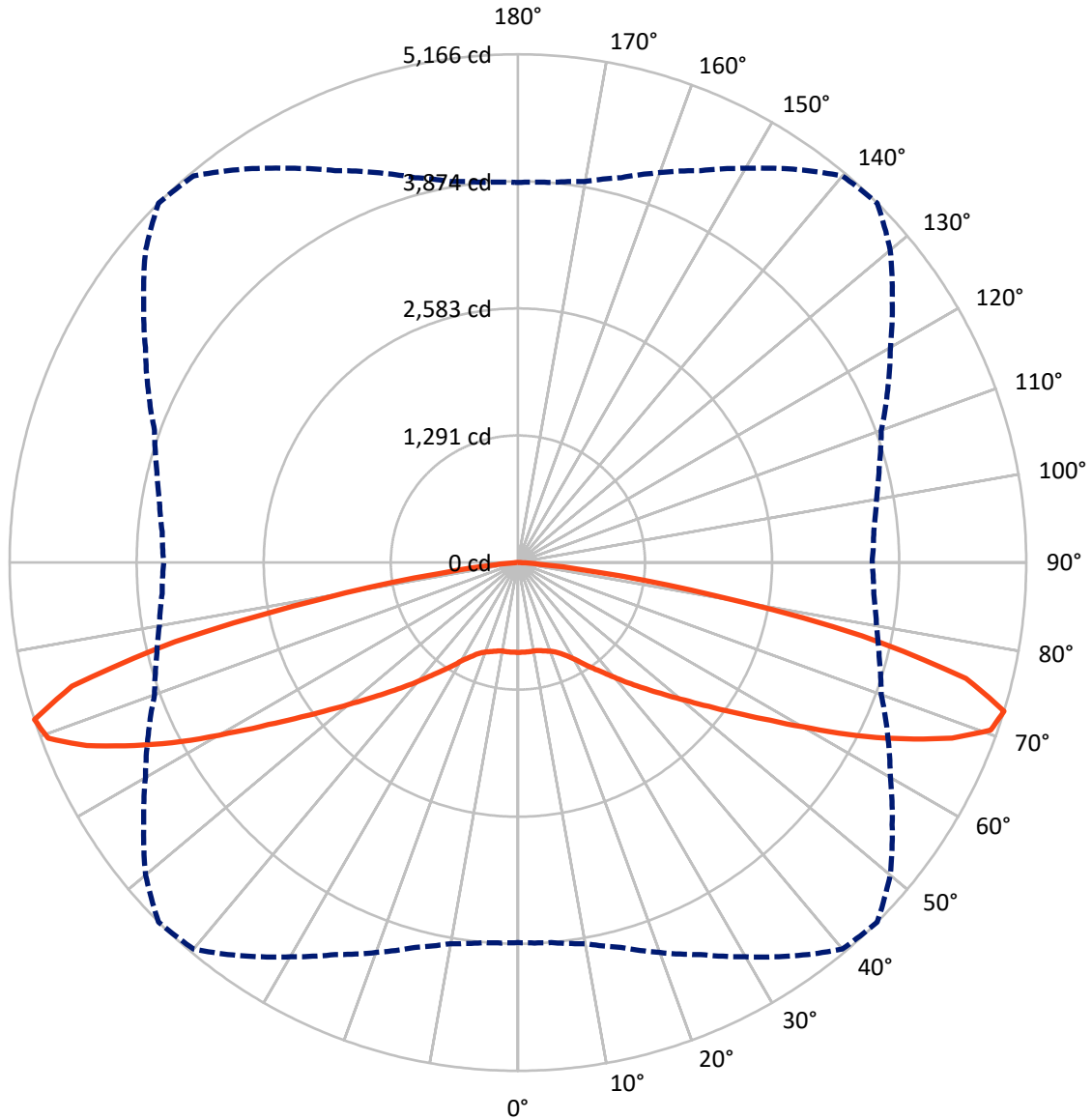
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	6450.2	0.0	6450.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6450.2	0.0	6450.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	12900.4	0.0	12900.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	0.7
10°-20°	264.9	2.1
20°-30°	484.1	3.8
30°-40°	834.8	6.5
40°-50°	1427.0	11.1
50°-60°	2313.0	17.9
60°-70°	3837.2	29.7
70°-80°	3379.7	26.2
80°-90°	272.5	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°	12900.4	100.0
0°-180°	12900.4	100.0



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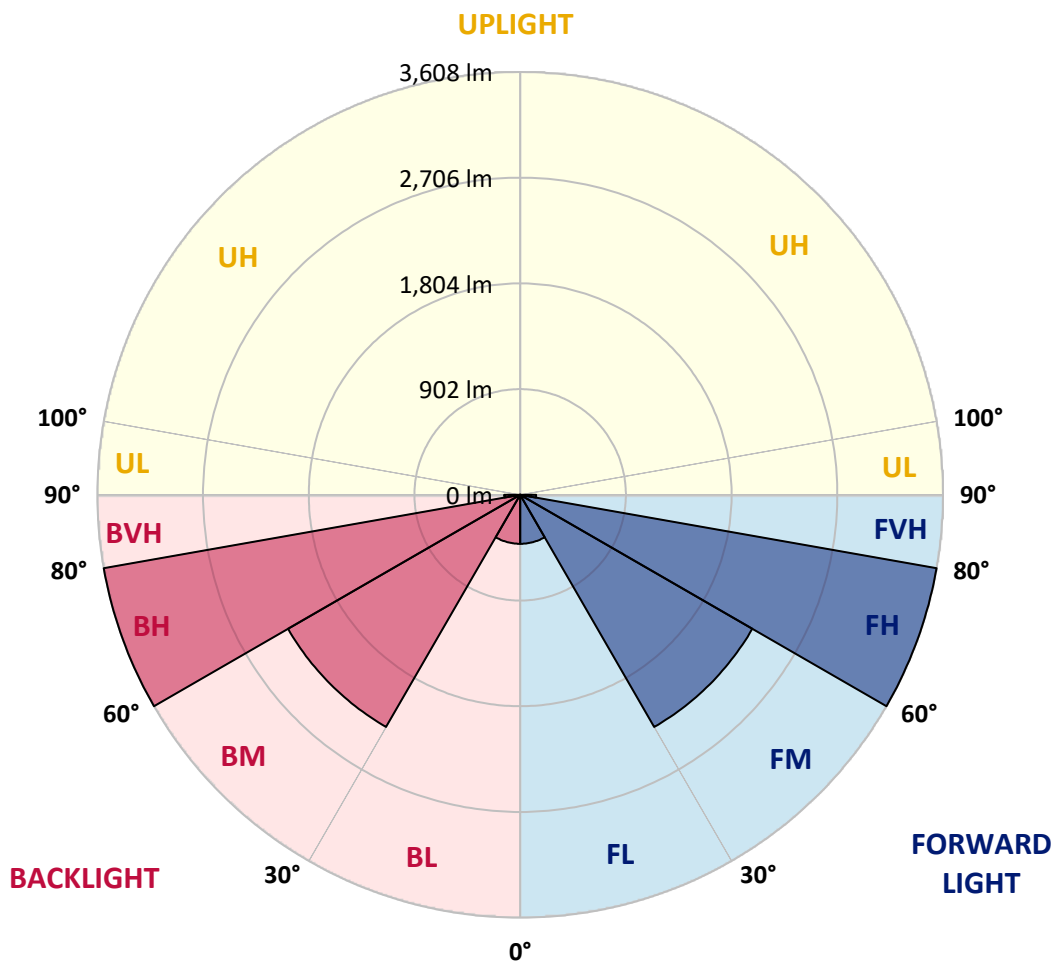
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	418.2	3.2			
FM	(30°-60°)	2287.4	17.7			
FH	(60°-80°)	3608.4	28.0			G2/5000
FVH	(80°-90°)	136.2	1.1			G2/225
BL	(0°-30°)	418.2	3.2	B1/500		
BM	(30°-60°)	2287.4	17.7	B2/2500		
BH	(60°-80°)	3608.4	28.0	B4/5000		G2/5000
BVH	(80°-90°)	136.2	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°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	913.6	914.1	914.7	914.1	914.1	913.6	913.0	913.6	913.0	911.8	912.4
5°	916.5	917.7	917.7	916.5	917.1	916.5	915.3	916.0	914.7	913.0	913.0
7.5°	920.0	920.7	920.7	919.4	920.0	918.9	917.7	917.1	916.0	913.6	911.8
10°	925.4	926.0	925.4	924.2	924.2	922.4	919.4	918.3	916.0	912.4	910.6
12.5°	931.3	931.9	931.3	930.1	929.6	926.6	924.2	922.4	920.7	917.7	914.7
15°	939.6	940.8	939.6	937.2	935.5	933.0	931.9	932.5	933.0	930.7	927.7
17.5°	954.9	955.5	953.8	948.5	946.1	943.8	943.8	944.9	946.6	945.5	942.5
20°	983.4	981.6	977.4	971.0	968.0	963.8	963.2	963.8	963.8	963.2	960.9
22.5°	1018.9	1017.7	1012.3	1004.1	999.9	997.6	994.0	991.0	990.4	988.7	986.3
25°	1061.5	1060.9	1054.4	1047.3	1044.3	1041.4	1038.4	1034.2	1030.7	1026.5	1024.2
27.5°	1115.9	1113.6	1104.1	1100.5	1096.4	1094.6	1090.5	1085.8	1082.8	1077.5	1074.5
30°	1175.7	1175.7	1168.0	1166.8	1166.8	1162.7	1157.9	1149.6	1144.3	1139.0	1137.2
32.5°	1235.4	1236.0	1228.4	1230.7	1232.5	1235.4	1236.6	1233.7	1230.1	1229.5	1226.0
35°	1321.9	1319.4	1311.7	1313.6	1313.0	1312.3	1312.3	1318.9	1320.0	1321.2	1314.1
37.5°	1428.9	1428.9	1421.2	1421.2	1417.7	1414.1	1409.4	1413.5	1420.1	1421.8	1417.1
40°	1551.4	1555.5	1546.1	1545.5	1546.6	1535.4	1530.1	1536.6	1540.8	1547.8	1542.5
42.5°	1695.7	1692.8	1683.4	1682.1	1675.6	1672.1	1667.3	1672.6	1679.2	1683.9	1685.7
45°	1834.3	1831.8	1821.2	1821.2	1814.7	1811.7	1814.1	1823.0	1826.0	1832.4	1839.0
47.5°	1970.9	1968.0	1960.8	1963.8	1964.4	1969.7	1977.4	1985.6	1993.9	2002.8	2005.8
50°	2110.6	2111.1	2103.4	2110.6	2119.3	2134.2	2154.8	2168.5	2185.6	2196.9	2200.5
52.5°	2237.7	2240.1	2248.3	2264.9	2282.7	2311.7	2347.2	2380.3	2408.7	2427.7	2426.4
55°	2390.3	2393.9	2414.1	2442.4	2471.4	2515.2	2567.9	2626.4	2673.8	2701.0	2683.8
57.5°	2585.6	2593.3	2615.8	2654.3	2697.4	2754.3	2826.4	2914.6	2987.9	3024.7	2996.8
60°	2853.6	2858.4	2885.6	2928.2	2980.3	3050.6	3147.1	3265.5	3369.0	3417.6	3385.6
62.5°	3206.8	3215.7	3237.6	3280.8	3334.1	3414.0	3531.7	3679.7	3808.7	3876.1	3803.9
65°	3628.7	3657.2	3675.5	3719.2	3769.0	3853.6	3976.6	4135.3	4273.7	4318.1	4234.6
67.5°	4046.5	4071.3	4103.3	4153.6	4203.9	4299.2	4413.3	4567.2	4719.2	4759.5	4629.9
70°	4229.3	4243.5	4293.2	4361.9	4458.3	4570.7	4702.6	4875.4	5063.6	5096.8	4932.3
72.5°	3863.1	3877.3	3932.8	4049.5	4217.5	4396.1	4626.3	4880.2	5128.7	5165.9	4939.3
75°	2921.8	2898.6	2980.9	3135.3	3361.9	3611.0	3932.8	4296.8	4656.0	4702.6	4432.2
77.5°	1510.0	1507.0	1569.1	1760.8	2031.3	2314.6	2669.1	3080.3	3431.7	3573.8	3353.6
80°	425.4	430.2	459.7	555.0	713.0	917.7	1194.6	1579.7	1867.3	2014.1	1891.0
82.5°	166.8	179.8	191.1	208.9	229.6	259.7	346.7	516.0	692.2	827.2	677.5
85°	59.7	63.9	90.5	107.1	108.8	114.8	130.7	152.6	184.0	219.5	180.4
87.5°	22.5	24.9	28.9	48.0	47.4	43.2	52.7	55.0	41.4	37.8	46.7
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°	913.6	913.6	913.6	913.6	913.6	913.6	913.6	913.6
2.5°	911.1	911.8	911.8	912.4	913.0	913.0	914.1	914.1
5°	911.8	911.8	910.6	911.1	910.6	910.6	911.1	911.1
7.5°	910.6	910.0	908.8	908.2	907.1	907.1	907.1	907.1
10°	908.8	908.2	907.1	906.4	905.8	905.8	905.8	905.8
12.5°	913.6	911.8	910.6	910.0	910.0	910.0	910.0	910.0
15°	926.0	921.9	918.9	918.9	919.4	920.7	920.7	921.9
17.5°	941.3	936.6	933.6	931.3	932.5	934.3	935.5	936.6
20°	959.7	957.4	953.2	950.8	950.8	953.2	954.4	954.9
22.5°	985.1	983.4	981.6	978.7	978.7	979.8	982.1	982.1
25°	1023.1	1021.8	1020.6	1018.2	1017.7	1017.7	1018.9	1020.1
27.5°	1070.3	1070.9	1069.8	1069.2	1067.3	1066.8	1068.6	1068.0
30°	1133.6	1136.6	1139.6	1137.2	1134.2	1132.5	1130.7	1128.3
32.5°	1219.5	1215.9	1213.5	1209.4	1204.1	1199.3	1195.8	1191.6
35°	1300.5	1294.5	1292.2	1295.8	1295.2	1292.2	1288.1	1284.5
37.5°	1399.9	1398.7	1399.9	1406.5	1405.2	1408.2	1399.9	1399.3
40°	1525.3	1526.5	1534.8	1542.5	1546.6	1550.8	1546.1	1541.3
42.5°	1670.9	1670.3	1673.2	1683.9	1691.0	1695.7	1685.7	1684.5
45°	1824.7	1820.5	1823.0	1831.8	1839.0	1844.3	1833.0	1833.0
47.5°	1993.9	1986.9	1979.2	1989.2	1993.3	1996.9	1988.0	1985.0
50°	2182.7	2167.9	2151.4	2155.5	2155.5	2154.3	2143.1	2142.5
52.5°	2399.2	2372.0	2341.8	2330.6	2324.1	2317.0	2297.4	2288.0
55°	2648.3	2607.5	2560.2	2531.2	2515.8	2496.3	2463.8	2454.9
57.5°	2939.4	2875.5	2793.9	2758.4	2724.1	2692.1	2656.1	2646.0
60°	3284.4	3190.4	3082.0	3016.4	2979.1	2948.3	2911.0	2909.3
62.5°	3669.0	3520.5	3398.0	3338.8	3311.6	3284.4	3248.9	3253.6
65°	4060.1	3905.1	3790.3	3742.4	3716.9	3694.5	3658.9	3664.3
67.5°	4445.8	4303.2	4177.2	4128.1	4099.8	4071.3	4039.4	4044.7
70°	4722.8	4545.9	4403.9	4295.0	4226.9	4150.0	4100.3	4087.9
72.5°	4643.5	4370.8	4145.3	3929.4	3802.7	3699.8	3629.9	3599.8
75°	4018.7	3645.9	3356.0	3090.9	2941.8	2820.5	2732.4	2677.4
77.5°	2984.5	2565.6	2223.0	1917.6	1676.2	1514.1	1399.9	1325.9
80°	1633.7	1242.5	908.2	638.4	469.2	389.9	344.3	322.4
82.5°	508.8	328.4	242.0	208.9	194.1	185.8	172.2	150.3
85°	162.1	142.0	132.0	126.0	120.1	104.8	72.2	65.7
87.5°	62.7	64.4	63.9	60.4	61.6	44.4	35.5	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)