

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: P193331

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10264 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - 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

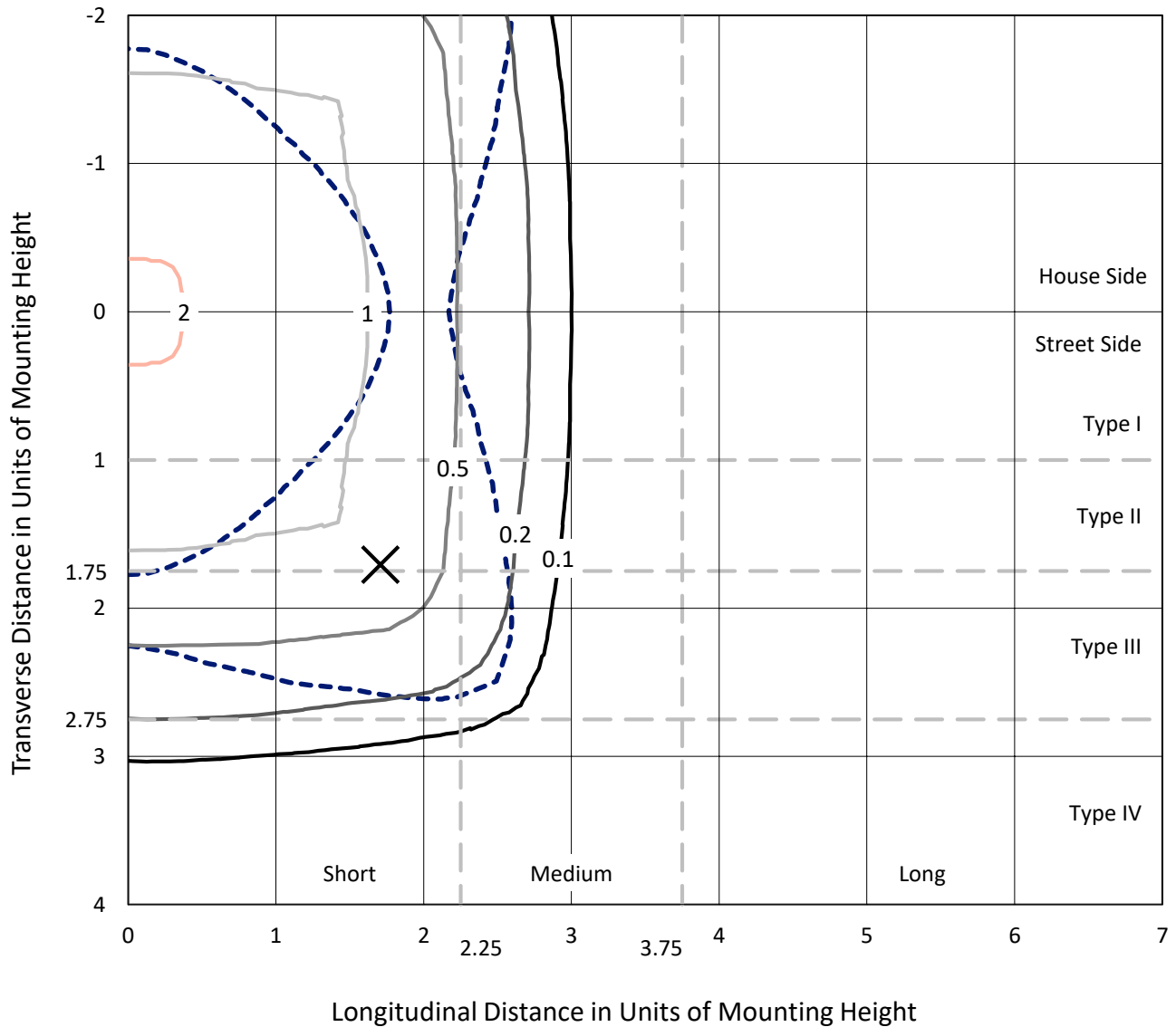


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Iso-Footcandle Lines of Horizontal Illumination

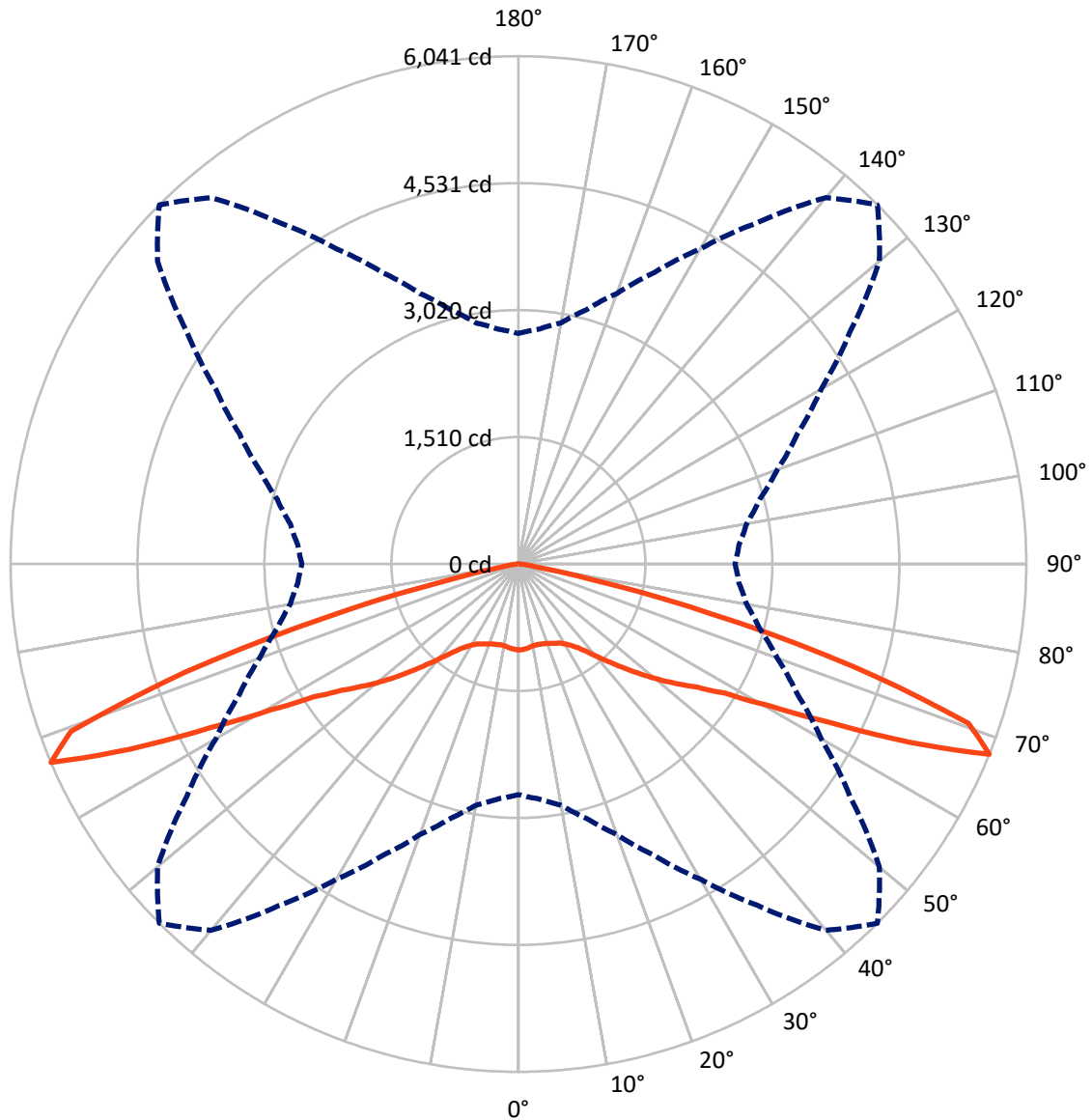
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5132.0	0.0	5132.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5132.0	0.0	5132.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10264.0	0.0	10264.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	0.9
10°-20°	277.8	2.7
20°-30°	472.3	4.6
30°-40°	772.0	7.5
40°-50°	1378.2	13.4
50°-60°	2323.6	22.6
60°-70°	3605.9	35.1
70°-80°	1266.9	12.3
80°-90°	71.6	0.7
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°	10264.0	100.0
0°-180°	10264.0	100.0



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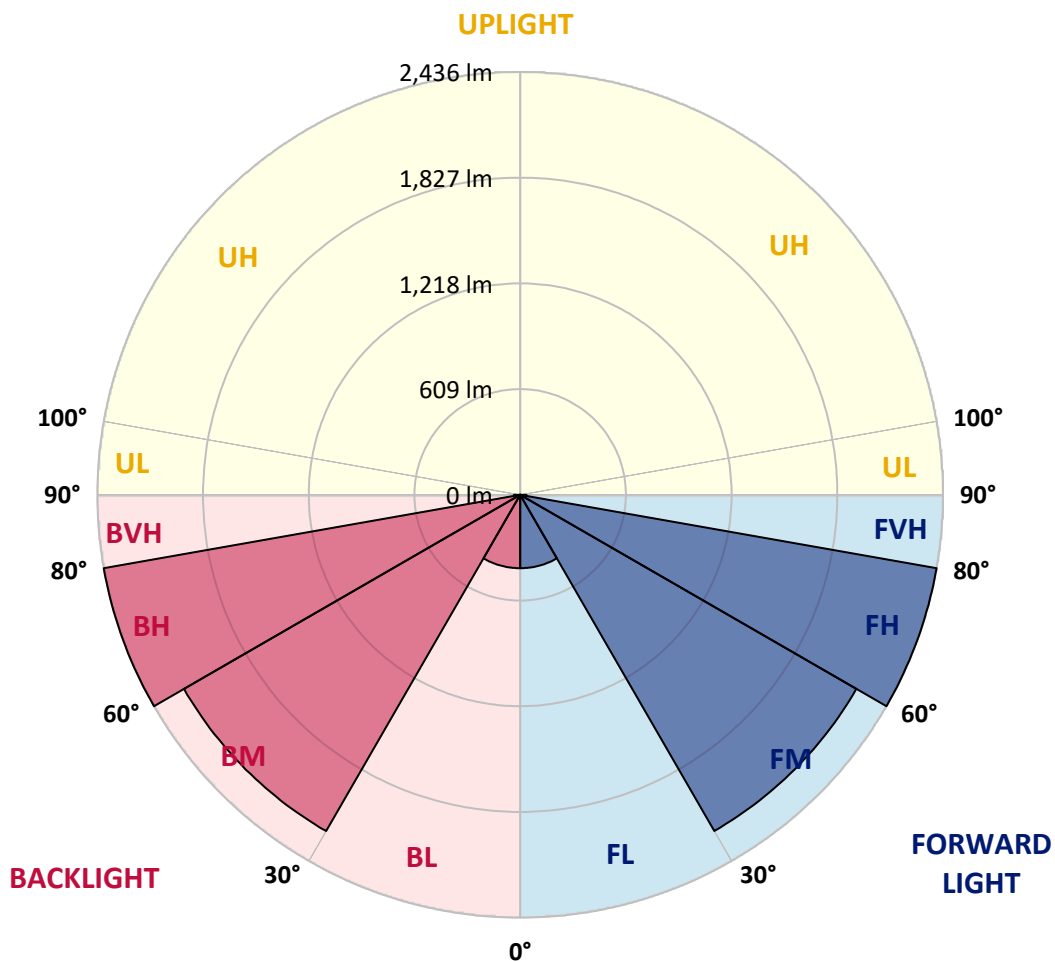
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.9	4.1			
FM (30°-60°)	2236.9	21.8			
FH (60°-80°)	2436.4	23.7			G2/5000
FVH (80°-90°)	35.8	0.3			G1/100
BL (0°-30°)	422.9	4.1	B1/500		
BM (30°-60°)	2236.9	21.8	B2/2500		
BH (60°-80°)	2436.4	23.7	B3/2500		G2/5000
BVH (80°-90°)	35.8	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9
2.5°	1019.1	1020.0	1020.0	1020.0	1019.5	1019.5	1018.6	1019.5	1019.1	1017.7	1018.1
5°	1010.6	1011.5	1011.5	1011.1	1012.5	1012.0	1010.6	1011.5	1011.1	1010.1	1010.6
7.5°	998.3	999.7	999.7	999.3	1000.7	1000.2	999.3	999.7	999.7	998.3	998.3
10°	984.6	985.6	985.6	985.1	987.4	987.4	987.0	988.4	988.9	987.4	986.5
12.5°	971.9	973.3	973.3	975.2	977.5	978.5	980.8	982.7	984.6	984.1	982.3
15°	964.3	965.3	967.2	969.5	973.3	976.6	980.4	984.6	988.4	989.3	986.5
17.5°	959.6	961.0	963.8	967.2	972.3	978.0	983.7	989.3	994.5	996.4	993.1
20°	958.2	959.1	962.0	967.6	974.7	983.2	991.2	997.8	1004.9	1007.3	1004.9
22.5°	961.0	962.9	966.2	972.8	982.3	993.1	1002.6	1011.5	1020.5	1024.7	1021.4
25°	973.8	975.6	979.9	988.4	998.8	1010.1	1021.0	1031.3	1039.4	1043.6	1041.3
27.5°	997.4	999.7	1004.9	1013.4	1024.7	1037.0	1048.8	1057.3	1063.9	1065.3	1062.5
30°	1032.8	1038.0	1044.1	1053.5	1066.7	1077.1	1088.9	1096.5	1104.5	1104.5	1102.1
32.5°	1088.0	1093.2	1099.8	1108.8	1119.1	1130.5	1140.9	1147.5	1156.0	1156.4	1150.8
35°	1170.6	1173.0	1178.6	1184.3	1193.7	1203.6	1212.6	1216.8	1223.9	1224.4	1219.2
37.5°	1279.6	1280.1	1283.9	1285.8	1294.3	1305.1	1313.6	1316.4	1323.1	1322.1	1316.9
40°	1406.6	1409.0	1410.4	1413.2	1422.2	1432.6	1441.5	1442.9	1450.0	1448.6	1442.0
42.5°	1553.4	1554.3	1562.4	1566.6	1575.1	1580.3	1591.6	1593.0	1601.5	1597.8	1590.2
45°	1718.1	1726.6	1734.2	1742.7	1751.6	1757.8	1766.7	1764.9	1770.5	1764.9	1760.6
47.5°	1891.4	1897.5	1914.5	1927.7	1942.3	1947.5	1960.3	1954.6	1960.3	1952.2	1950.8
50°	2082.0	2092.9	2107.5	2122.6	2138.2	2146.7	2163.2	2156.2	2163.7	2156.2	2151.9
52.5°	2269.9	2272.7	2304.8	2327.0	2348.7	2358.6	2368.6	2365.3	2365.7	2365.3	2361.0
55°	2448.3	2454.9	2487.0	2517.2	2555.0	2582.9	2599.8	2598.0	2593.7	2589.5	2582.4
57.5°	2649.4	2656.0	2692.8	2730.1	2773.1	2812.7	2847.2	2882.6	2896.3	2900.0	2884.5
60°	2921.3	2920.8	2969.9	3015.2	3076.6	3135.6	3211.1	3288.0	3376.3	3417.4	3363.1
62.5°	3197.9	3209.2	3280.0	3360.3	3486.8	3610.0	3749.2	3886.1	4025.8	4139.5	4018.7
65°	3164.8	3208.3	3313.5	3495.3	3728.9	4006.4	4306.6	4624.3	4911.3	5108.6	4887.2
67.5°	2742.9	2804.7	2911.8	3132.7	3424.9	3825.2	4329.3	4957.5	5687.7	6040.8	5603.3
70°	1988.1	2058.0	2170.3	2386.0	2675.4	3055.8	3603.3	4357.6	5324.3	5680.2	5198.3
72.5°	989.3	1027.1	1096.5	1233.8	1452.9	1761.6	2258.1	2983.1	3838.4	4165.0	3724.6
75°	336.1	353.5	365.3	410.2	479.6	600.9	847.7	1304.2	1989.5	2385.1	1961.2
77.5°	194.0	194.5	202.5	210.5	222.3	235.5	268.6	352.6	609.8	866.1	631.1
80°	125.6	125.1	131.7	137.8	145.9	152.5	154.3	163.3	188.3	223.3	199.7
82.5°	65.1	73.2	87.8	95.8	110.9	113.8	110.0	106.7	112.8	117.1	119.9
85°	35.9	31.2	46.7	60.4	67.0	68.0	68.0	64.2	66.6	65.1	70.8
87.5°	16.5	15.1	18.4	29.7	31.6	26.9	28.3	25.0	17.9	17.5	19.8
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°	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9	1022.9
2.5°	1018.1	1018.6	1018.6	1020.0	1020.5	1021.4	1022.4	1022.9
5°	1010.1	1011.5	1010.6	1012.0	1012.0	1012.9	1012.9	1013.4
7.5°	998.3	999.7	999.7	999.7	999.3	1000.7	1000.7	1000.7
10°	986.0	987.0	986.5	985.6	984.6	986.0	985.6	985.1
12.5°	982.3	979.9	978.0	977.1	975.2	975.6	974.2	974.2
15°	984.6	980.4	977.1	975.6	973.8	972.8	971.9	972.3
17.5°	990.8	985.6	981.3	979.0	976.6	975.2	973.3	973.8
20°	1001.6	995.5	989.3	984.6	980.4	978.0	976.6	976.1
22.5°	1017.7	1008.7	999.7	992.6	987.0	983.7	982.3	981.3
25°	1036.1	1026.2	1015.8	1007.7	1002.1	997.8	995.0	995.0
27.5°	1059.2	1051.2	1041.7	1032.3	1027.1	1022.9	1021.0	1020.0
30°	1097.9	1090.3	1082.8	1073.8	1067.2	1063.0	1059.7	1056.8
32.5°	1147.5	1141.3	1135.2	1128.6	1122.4	1116.8	1111.6	1109.2
35°	1217.3	1212.6	1208.4	1200.8	1198.4	1195.1	1192.3	1189.9
37.5°	1313.6	1311.7	1311.7	1303.7	1301.8	1300.4	1297.6	1298.0
40°	1440.1	1442.0	1439.6	1436.8	1435.4	1431.6	1431.6	1434.9
42.5°	1589.7	1591.2	1596.3	1591.6	1596.8	1592.1	1589.3	1591.6
45°	1763.4	1768.6	1779.0	1774.3	1777.6	1769.6	1759.7	1760.1
47.5°	1958.4	1963.1	1967.3	1964.0	1964.5	1951.3	1938.1	1934.8
50°	2160.9	2162.8	2165.1	2160.4	2161.3	2146.7	2131.6	2132.1
52.5°	2361.0	2370.0	2379.4	2366.7	2363.8	2347.3	2326.1	2317.6
55°	2589.9	2602.7	2591.8	2569.6	2547.5	2525.3	2497.4	2492.7
57.5°	2872.2	2850.5	2816.5	2774.5	2743.8	2712.7	2684.3	2672.5
60°	3264.9	3183.3	3121.9	3059.6	3020.4	2982.2	2944.9	2939.2
62.5°	3820.0	3678.9	3556.6	3427.8	3322.5	3240.4	3174.8	3156.3
65°	4515.7	4182.0	3892.7	3622.7	3388.1	3211.1	3099.7	3050.6
67.5°	4815.0	4156.1	3660.0	3276.7	2969.9	2755.6	2635.2	2575.3
70°	4231.1	3446.6	2907.1	2523.4	2243.9	2015.5	1906.5	1842.3
72.5°	2910.9	2192.5	1733.7	1415.1	1191.8	1000.7	925.1	919.5
75°	1307.0	865.7	596.6	459.7	387.1	336.5	321.0	309.2
77.5°	365.8	270.5	241.2	225.6	210.5	193.1	186.4	187.9
80°	177.9	168.0	161.4	151.5	137.8	123.2	116.6	119.4
82.5°	118.0	116.6	120.8	113.8	93.9	79.8	67.0	61.4
85°	71.7	72.7	74.1	74.6	63.2	44.4	30.2	34.0
87.5°	28.3	32.6	35.4	36.8	34.5	21.2	17.0	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)