

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: P191690

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191690
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 12828 lumens
Efficiency: N/A
Efficacy: 113.5 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

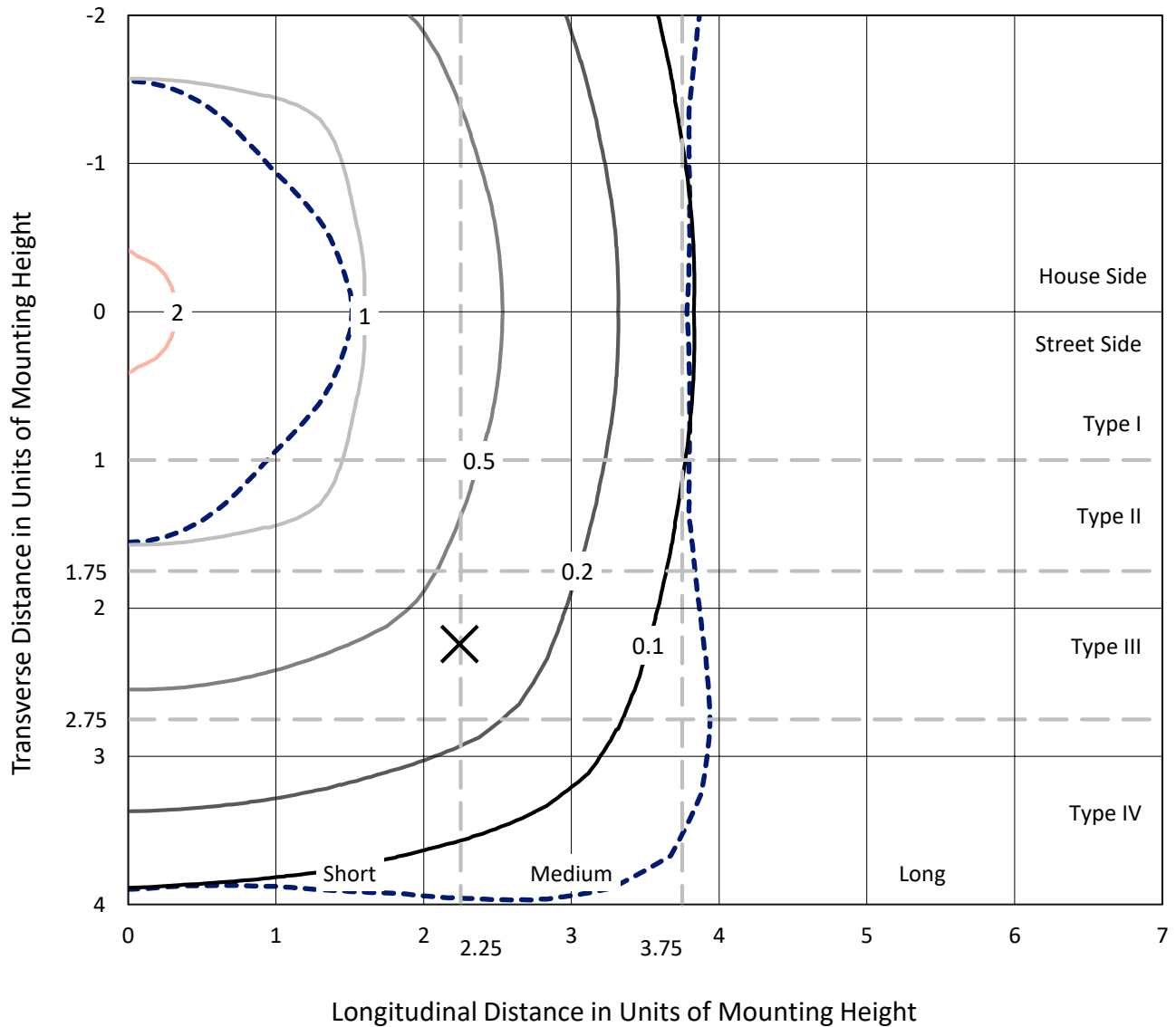
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

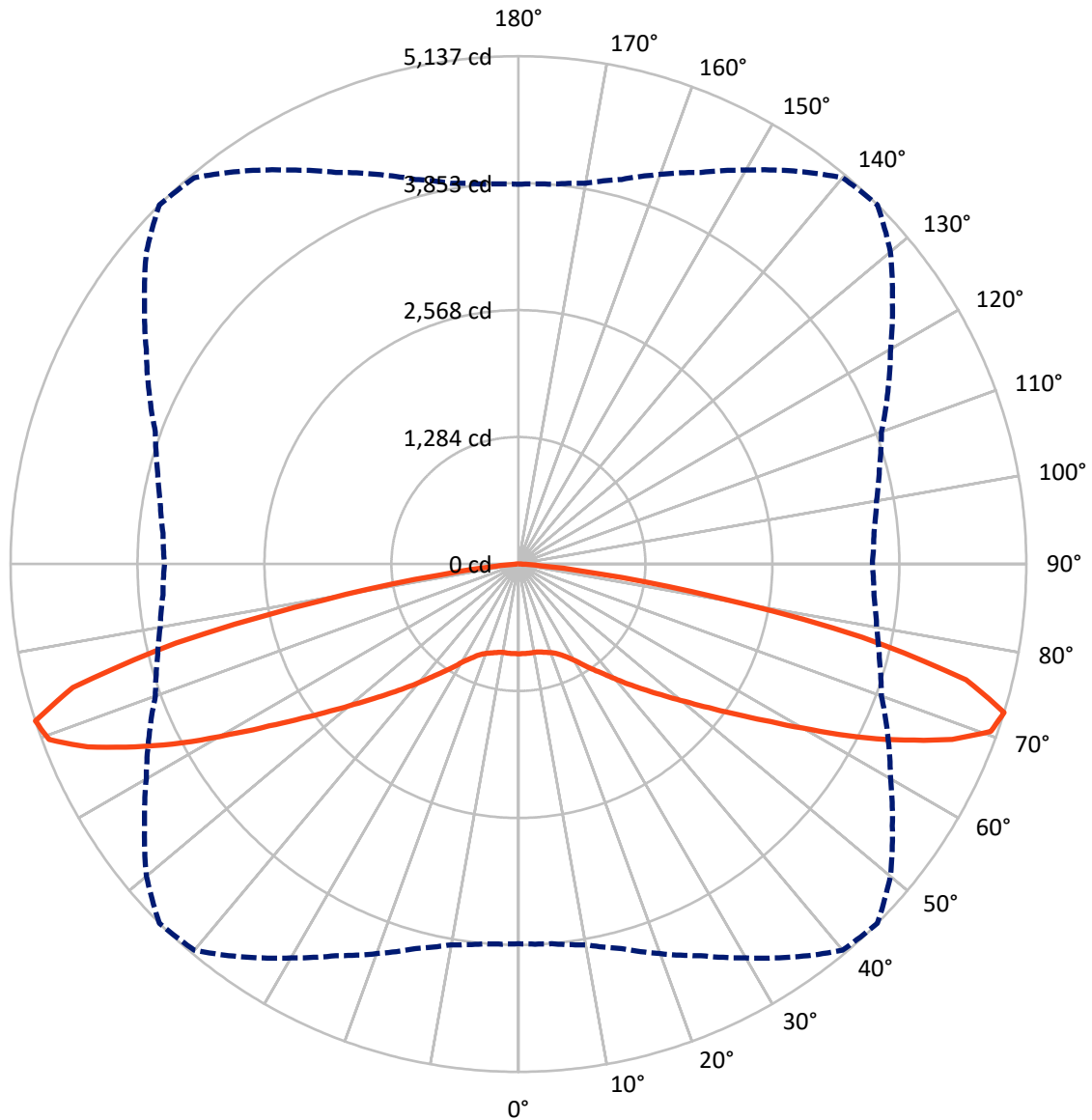
× Max cd
 - - - 1/2 Max cd



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	6414.0	0.0	6414.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6414.0	0.0	6414.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12828.0	0.0	12828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	0.7
10°-20°	263.5	2.1
20°-30°	481.4	3.8
30°-40°	830.1	6.5
40°-50°	1419.0	11.1
50°-60°	2300.0	17.9
60°-70°	3815.6	29.7
70°-80°	3360.7	26.2
80°-90°	271.0	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°	12828.0	100.0
0°-180°	12828.0	100.0

Coefficient of Utilization



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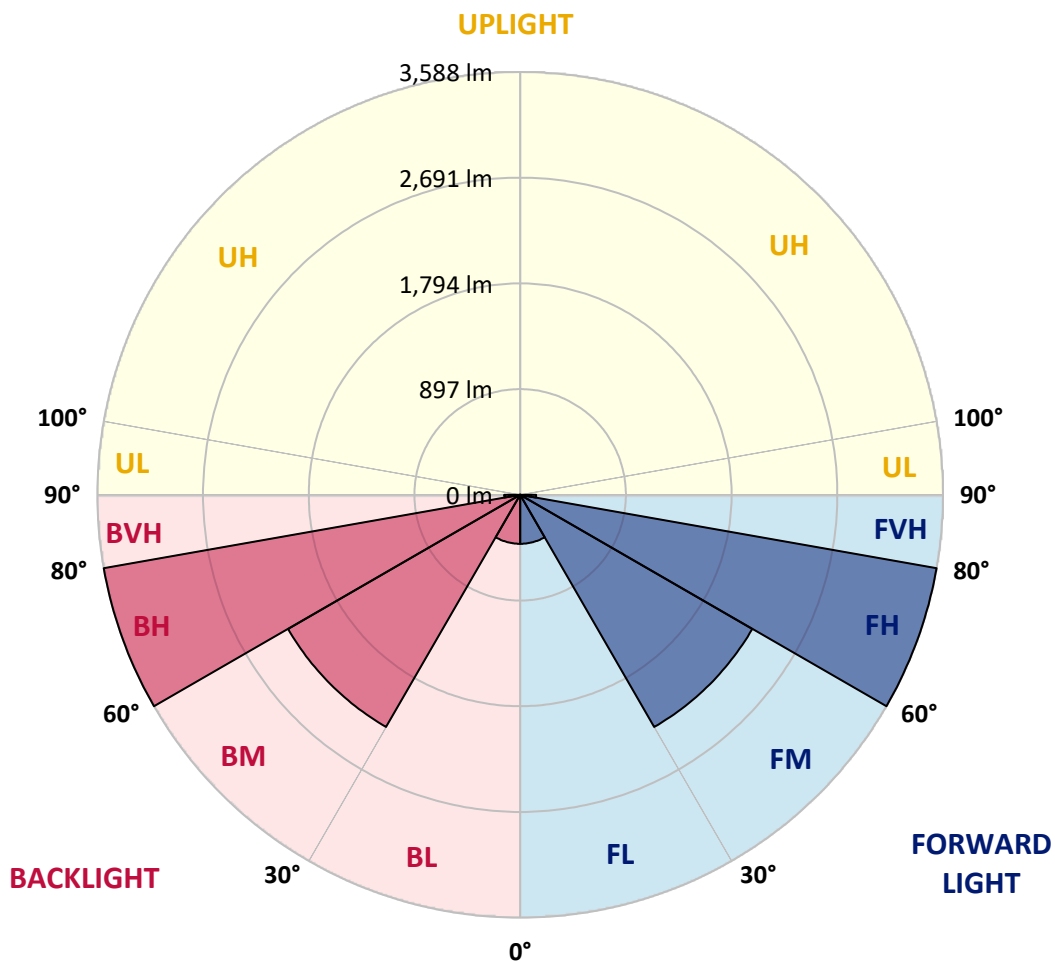
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.8	3.2			
FM	(30°-60°)	2274.5	17.7			
FH	(60°-80°)	3588.2	28.0			G2/5000
FVH	(80°-90°)	135.5	1.1			G2/225
BL	(0°-30°)	415.8	3.2	B1/500		
BM	(30°-60°)	2274.5	17.7	B2/2500		
BH	(60°-80°)	3588.2	28.0	B4/5000		G2/5000
BVH	(80°-90°)	135.5	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°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4
2.5°	908.4	909.0	909.6	909.0	909.0	908.4	907.8	908.4	907.8	906.7	907.2
5°	911.4	912.5	912.5	911.4	912.0	911.4	910.2	910.8	909.6	907.8	907.8
7.5°	914.9	915.5	915.5	914.3	914.9	913.7	912.5	912.0	910.8	908.4	906.7
10°	920.2	920.8	920.2	919.0	919.0	917.2	914.3	913.1	910.8	907.2	905.5
12.5°	926.1	926.7	926.1	924.9	924.3	921.4	919.0	917.2	915.5	912.5	909.6
15°	934.3	935.5	934.3	932.0	930.2	927.8	926.7	927.2	927.8	925.5	922.5
17.5°	949.6	950.2	948.4	943.1	940.8	938.4	938.4	939.6	941.4	940.2	937.3
20°	977.8	976.1	972.0	965.5	962.6	958.4	957.8	958.4	958.4	957.8	955.5
22.5°	1013.1	1012.0	1006.7	998.4	994.3	992.0	988.4	985.5	984.9	983.1	980.8
25°	1055.5	1054.9	1048.5	1041.4	1038.4	1035.5	1032.6	1028.4	1024.9	1020.8	1018.4
27.5°	1109.6	1107.3	1097.9	1094.3	1090.2	1088.5	1084.3	1079.6	1076.7	1071.4	1068.5
30°	1169.1	1169.1	1161.4	1160.2	1160.2	1156.1	1151.4	1143.2	1137.9	1132.6	1130.8
32.5°	1228.5	1229.1	1221.4	1223.8	1225.5	1228.5	1229.7	1226.7	1223.2	1222.6	1219.1
35°	1314.4	1312.0	1304.4	1306.2	1305.6	1305.0	1305.0	1311.4	1312.6	1313.8	1306.7
37.5°	1420.9	1420.9	1413.2	1413.2	1409.7	1406.2	1401.5	1405.6	1412.1	1413.8	1409.1
40°	1542.7	1546.8	1537.4	1536.8	1538.0	1526.8	1521.5	1528.0	1532.1	1539.1	1533.8
42.5°	1686.2	1683.3	1673.9	1672.7	1666.2	1662.7	1658.0	1663.3	1669.8	1674.5	1676.2
45°	1823.9	1821.6	1811.0	1811.0	1804.5	1801.5	1803.9	1812.7	1815.7	1822.1	1828.6
47.5°	1959.8	1956.9	1949.8	1952.8	1953.3	1958.6	1966.3	1974.5	1982.8	1991.6	1994.5
50°	2098.7	2099.3	2091.6	2098.7	2107.5	2122.2	2142.8	2156.3	2173.4	2184.6	2188.1
52.5°	2225.2	2227.5	2235.8	2252.2	2269.9	2298.7	2334.0	2367.0	2395.2	2414.0	2412.8
55°	2377.0	2380.5	2400.5	2428.7	2457.6	2501.1	2553.5	2611.7	2658.8	2685.8	2668.8
57.5°	2571.1	2578.8	2601.1	2639.4	2682.3	2738.8	2810.6	2898.2	2971.2	3007.7	2980.0
60°	2837.6	2842.3	2869.4	2911.8	2963.5	3033.6	3129.5	3247.1	3350.1	3398.3	3366.6
62.5°	3188.9	3197.7	3219.5	3262.4	3315.4	3394.8	3511.9	3659.0	3787.2	3854.3	3782.5
65°	3608.4	3636.6	3654.9	3698.4	3747.8	3832.0	3954.3	4112.0	4249.7	4293.8	4210.9
67.5°	4023.8	4048.5	4080.2	4130.3	4180.3	4275.0	4388.5	4541.5	4692.7	4732.7	4603.9
70°	4205.6	4219.7	4269.1	4337.4	4433.3	4545.1	4676.3	4848.1	5035.2	5068.1	4904.5
72.5°	3841.4	3855.5	3910.8	4026.7	4193.8	4371.5	4600.4	4852.8	5099.9	5136.9	4911.6
75°	2905.3	2882.4	2964.1	3117.7	3343.0	3590.7	3910.8	4272.6	4629.8	4676.3	4407.4
77.5°	1501.5	1498.5	1560.3	1750.9	2019.8	2301.6	2654.1	3063.0	3412.5	3553.7	3334.8
80°	423.0	427.7	457.2	551.9	709.0	912.5	1187.9	1570.9	1856.9	2002.8	1880.4
82.5°	165.9	178.9	190.0	207.7	228.3	258.3	344.8	513.0	688.4	822.5	673.7
85°	59.4	63.5	90.0	106.5	108.3	114.1	130.0	151.8	183.0	218.3	179.4
87.5°	22.4	24.7	28.8	47.7	47.1	42.9	52.4	54.7	41.2	37.7	46.5
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°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4
2.5°	906.1	906.7	906.7	907.2	907.8	907.8	909.0	909.0
5°	906.7	906.7	905.5	906.1	905.5	905.5	906.1	906.1
7.5°	905.5	904.9	903.7	903.1	901.9	901.9	901.9	901.9
10°	903.7	903.1	901.9	901.4	900.8	900.8	900.8	900.8
12.5°	908.4	906.7	905.5	904.9	904.9	904.9	904.9	904.9
15°	920.8	916.7	913.7	913.7	914.3	915.5	915.5	916.7
17.5°	936.1	931.4	928.4	926.1	927.2	929.0	930.2	931.4
20°	954.3	952.0	947.8	945.5	945.5	947.8	949.0	949.6
22.5°	979.6	977.8	976.1	973.1	973.1	974.3	976.7	976.7
25°	1017.3	1016.1	1014.9	1012.6	1012.0	1012.0	1013.1	1014.3
27.5°	1064.3	1064.9	1063.7	1063.2	1061.4	1060.8	1062.6	1062.0
30°	1127.3	1130.2	1133.2	1130.8	1127.9	1126.1	1124.3	1122.0
32.5°	1212.6	1209.1	1206.7	1202.6	1197.3	1192.6	1189.1	1184.9
35°	1293.2	1287.3	1285.0	1288.5	1287.9	1285.0	1280.9	1277.3
37.5°	1392.1	1390.9	1392.1	1398.5	1397.3	1400.3	1392.1	1391.5
40°	1516.8	1518.0	1526.2	1533.8	1538.0	1542.1	1537.4	1532.7
42.5°	1661.5	1660.9	1663.9	1674.5	1681.5	1686.2	1676.2	1675.0
45°	1814.5	1810.4	1812.7	1821.6	1828.6	1833.9	1822.7	1822.7
47.5°	1982.8	1975.7	1968.1	1978.1	1982.2	1985.7	1976.9	1973.9
50°	2170.4	2155.7	2139.3	2143.4	2143.4	2142.2	2131.0	2130.4
52.5°	2385.8	2358.7	2328.7	2317.5	2311.1	2304.0	2284.6	2275.2
55°	2633.5	2592.9	2545.8	2517.0	2501.7	2482.3	2449.9	2441.1
57.5°	2923.0	2859.4	2778.2	2742.9	2708.8	2677.0	2641.1	2631.1
60°	3266.0	3172.4	3064.7	2999.4	2962.4	2931.8	2894.7	2892.9
62.5°	3648.4	3500.7	3378.9	3320.1	3293.0	3266.0	3230.7	3235.4
65°	4037.3	3883.1	3769.0	3721.4	3696.1	3673.7	3638.4	3643.7
67.5°	4420.9	4279.1	4153.8	4105.0	4076.7	4048.5	4016.7	4022.0
70°	4696.3	4520.3	4379.1	4270.9	4203.2	4126.7	4077.3	4065.0
72.5°	4617.4	4346.2	4122.0	3907.3	3781.4	3679.0	3609.6	3579.6
75°	3996.1	3625.4	3337.2	3073.6	2925.3	2804.7	2717.0	2662.3
77.5°	2967.7	2551.1	2210.5	1906.9	1666.8	1505.6	1392.1	1318.5
80°	1624.5	1235.5	903.1	634.8	466.6	387.7	342.4	320.7
82.5°	506.0	326.5	240.6	207.7	193.0	184.7	171.2	149.4
85°	161.2	141.2	131.2	125.3	119.4	104.1	71.8	65.3
87.5°	62.4	64.1	63.5	60.0	61.2	44.1	35.3	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)