

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633321

Luminaire Tested: GWS-SA2E-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14476.5 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

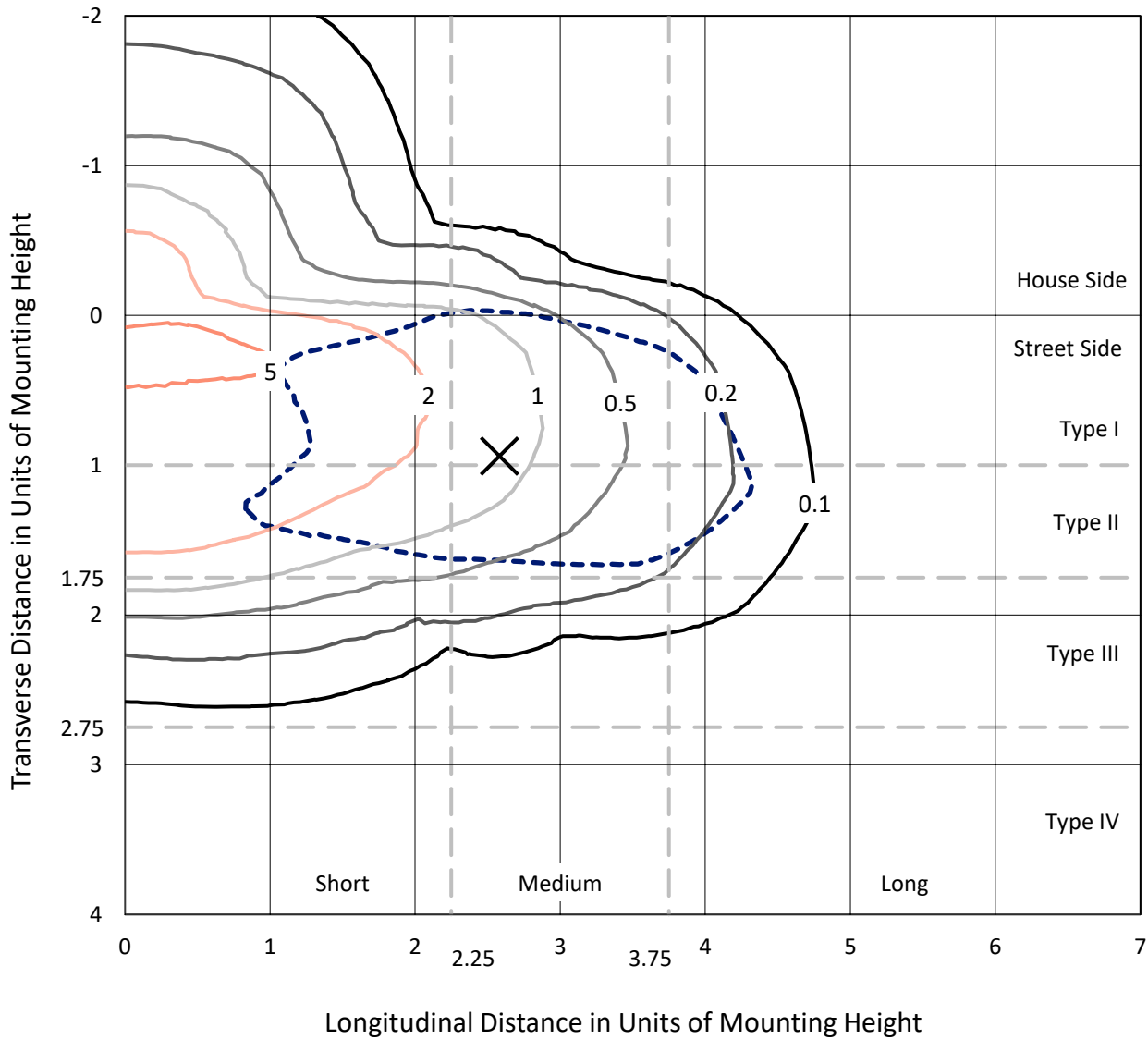
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

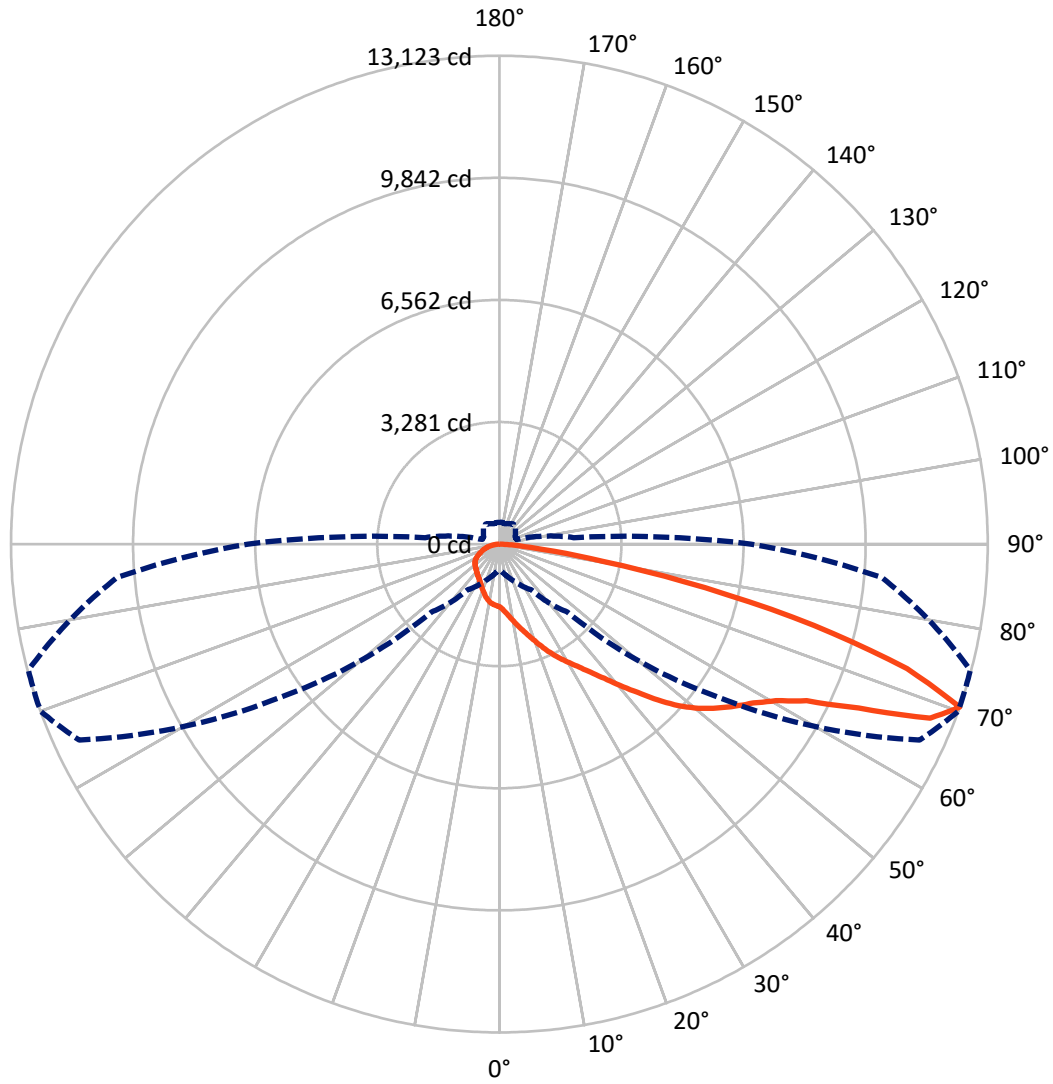
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2594.2	0.0	2594.2
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11882.3	0.0	11882.3
	% Fixture	82.1	0.0	82.1
Total	Lumens	14476.5	0.0	14476.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	1.2
10°-20°	558.2	3.9
20°-30°	988.9	6.8
30°-40°	1488.2	10.3
40°-50°	2251.5	15.6
50°-60°	3225.4	22.3
60°-70°	3565.4	24.6
70°-80°	2012.0	13.9
80°-90°	215.2	1.5
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°	14476.5	100.0
0°-180°	14476.5	100.0

Coefficient of Utilization



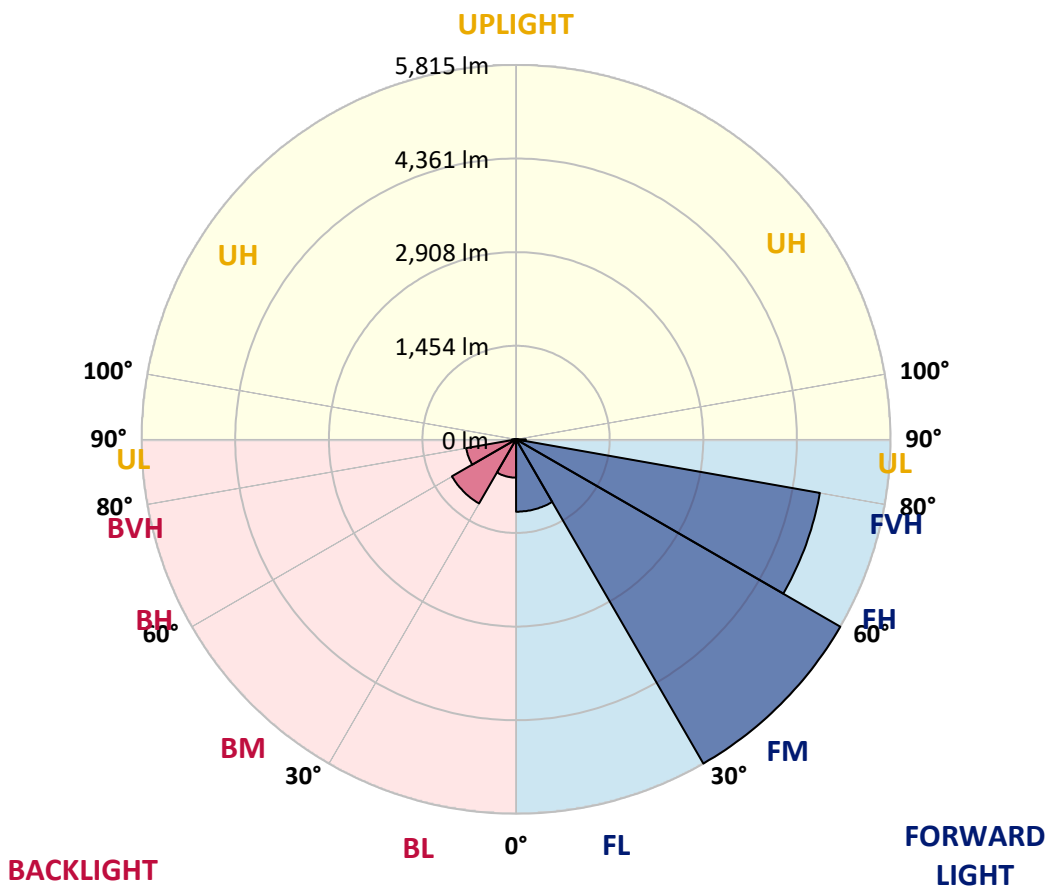
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.8	7.8			
FM (30°-60°)	5815.2	40.2			
FH (60°-80°)	4791.1	33.1			G2/5000
FVH (80°-90°)	152.1	1.1			G2/225
BL (0°-30°)	594.8	4.1	B2/1000		
BM (30°-60°)	1150.0	7.9	B2/2500		
BH (60°-80°)	786.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	63.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3
2.5°	1870.3	1867.1	1869.2	1867.1	1855.6	1827.4	1804.4	1775.1	1755.2	1743.7	1716.5
5°	2089.9	2086.8	2079.5	2069.0	2048.1	2009.4	1951.9	1888.0	1849.3	1820.1	1762.5
7.5°	2247.9	2247.9	2246.8	2234.3	2219.6	2178.8	2110.8	2027.2	1970.7	1920.5	1826.3
10°	2328.4	2333.6	2341.0	2358.8	2355.6	2333.6	2269.8	2179.9	2108.8	2050.2	1910.0
12.5°	2372.4	2375.5	2388.0	2424.7	2462.3	2467.5	2429.9	2335.7	2258.3	2179.9	2003.1
15°	2428.8	2429.9	2446.6	2490.5	2546.0	2601.4	2592.0	2497.9	2418.4	2331.6	2106.7
17.5°	2472.8	2480.1	2510.4	2561.7	2630.7	2707.1	2753.1	2694.5	2596.2	2496.8	2219.6
20°	2488.5	2493.7	2533.4	2611.9	2706.0	2813.8	2916.3	2900.6	2801.2	2684.1	2347.2
22.5°	2544.9	2544.9	2574.2	2640.1	2751.0	2907.9	3074.2	3115.0	3027.2	2890.1	2484.3
25°	2669.4	2665.2	2678.8	2706.0	2789.7	2983.2	3230.1	3352.5	3254.1	3100.4	2621.3
27.5°	2839.9	2837.8	2836.8	2841.0	2869.2	3049.1	3361.9	3574.2	3475.9	3302.3	2743.7
30°	3025.1	3018.8	3032.4	3019.8	3013.6	3127.6	3473.8	3773.0	3696.6	3502.0	2845.1
32.5°	3277.1	3265.6	3262.5	3221.7	3196.6	3250.0	3563.8	3998.9	3938.2	3717.5	2959.2
35°	3609.8	3599.3	3546.0	3481.1	3406.9	3432.0	3675.7	4219.6	4223.8	3987.4	3108.7
37.5°	3945.5	3947.6	3905.8	3753.1	3676.7	3662.1	3846.2	4488.4	4578.4	4309.6	3302.3
40°	4224.8	4237.4	4237.4	4076.3	3962.3	3948.7	4085.7	4807.5	4986.3	4705.0	3547.0
42.5°	4437.2	4448.7	4485.3	4369.2	4248.9	4296.0	4376.5	5127.5	5448.7	5193.4	3856.6
45°	4670.4	4679.8	4699.7	4632.8	4562.7	4688.2	4706.0	5510.4	5977.9	5741.5	4216.5
47.5°	4980.1	4971.7	4973.8	4924.6	4870.2	5073.1	5069.0	5832.6	6489.4	6342.0	4606.6
50°	5365.0	5380.7	5366.0	5268.8	5204.9	5390.1	5414.1	6189.2	6939.2	6936.1	4999.9
52.5°	5735.3	5741.5	5819.0	5823.1	5692.4	5653.7	5716.4	6549.1	7318.9	7480.0	5377.5
55°	5754.1	5778.2	6010.4	6177.7	6389.0	6078.4	6021.9	6892.2	7686.1	8012.4	5769.8
57.5°	5353.5	5392.2	5786.5	6147.4	6735.3	6807.4	6544.9	7335.7	8053.2	8536.5	6223.8
60°	4497.8	4578.4	5113.9	5666.2	6579.4	7331.5	7615.0	7938.2	8535.4	9072.0	6775.0
62.5°	2872.3	2903.7	3654.8	4579.4	5877.5	7280.2	8780.2	8999.9	9269.7	9769.7	7624.4
65°	1438.3	1538.7	1979.1	2733.2	4238.4	6415.2	9369.1	10944.4	10613.9	10964.3	9000.9
67.5°	975.9	1008.4	1231.2	1642.2	2485.3	4544.9	9004.1	12582.5	12485.2	12542.7	10468.5
70°	719.7	740.6	916.3	1163.2	1503.1	2580.5	7168.3	12459.0	13123.2	13102.3	10314.7
72.5°	525.1	535.6	668.4	888.1	1114.0	1334.7	4377.6	10064.7	11455.9	12059.4	9020.8
75°	381.8	394.3	464.4	664.2	866.1	832.6	2161.1	7269.8	8736.3	9897.3	7349.3
77.5°	284.5	300.2	332.6	416.3	606.7	596.2	934.1	4720.6	5650.5	6464.3	4464.4
80°	205.0	208.2	227.0	266.7	384.9	349.4	444.6	2461.3	2822.1	3092.0	1750.0
82.5°	124.5	127.6	151.7	164.2	238.5	219.7	231.2	797.1	1142.2	1212.3	653.8
85°	36.6	38.7	69.0	75.3	99.4	94.1	93.1	324.3	387.0	494.8	257.3
87.5°	0.0	0.0	0.0	0.0	1.0	6.3	11.5	57.5	86.8	120.3	62.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3	1688.3
2.5°	1706.0	1682.0	1669.4	1647.5	1631.8	1616.1	1600.4	1585.8	1579.5	1570.1	1572.2
5°	1736.4	1698.7	1661.1	1618.2	1581.6	1551.2	1524.0	1500.0	1489.5	1480.1	1484.3
7.5°	1782.4	1725.9	1653.7	1575.3	1517.8	1475.9	1447.7	1430.9	1425.7	1418.4	1418.4
10°	1841.0	1756.3	1629.7	1517.8	1448.7	1415.3	1402.7	1401.7	1406.9	1407.9	1405.8
12.5°	1905.8	1785.5	1594.1	1449.8	1391.2	1380.7	1390.1	1407.9	1425.7	1435.1	1433.0
15°	1972.8	1804.4	1533.5	1384.9	1349.4	1363.0	1393.3	1428.8	1463.4	1481.1	1480.1
17.5°	2035.5	1808.6	1455.0	1322.2	1312.7	1347.3	1399.6	1455.0	1502.1	1527.2	1528.2
20°	2105.6	1801.2	1374.5	1265.7	1276.1	1332.6	1401.7	1468.6	1524.0	1549.1	1555.4
22.5°	2169.4	1776.1	1296.0	1212.3	1244.8	1314.8	1384.9	1447.7	1496.8	1520.9	1529.3
25°	2227.0	1728.0	1210.2	1167.3	1220.7	1289.7	1343.1	1387.0	1421.5	1436.2	1447.7
27.5°	2258.3	1655.8	1145.4	1131.8	1197.7	1254.2	1283.5	1297.1	1308.6	1304.4	1312.7
30°	2264.6	1565.9	1088.9	1103.5	1163.2	1205.0	1211.3	1197.7	1177.8	1145.4	1152.7
32.5°	2258.3	1462.3	1041.8	1073.2	1124.5	1149.6	1141.2	1105.6	1057.5	1007.3	1010.4
35°	2260.4	1357.7	1003.1	1039.7	1079.5	1093.1	1072.2	1023.0	971.7	925.7	923.6
37.5°	2283.4	1269.9	970.7	1007.3	1035.5	1037.6	1014.6	963.4	937.2	902.7	898.5
40°	2347.2	1205.0	941.4	974.9	992.7	991.6	965.5	928.9	946.6	935.1	932.0
42.5°	2451.8	1165.3	917.4	940.4	952.9	955.0	934.1	911.1	949.8	935.1	929.9
45°	2620.3	1163.2	900.6	905.8	925.7	940.4	925.7	899.6	914.2	843.1	829.5
47.5°	2820.0	1198.7	888.1	875.5	910.0	936.2	913.2	871.3	841.0	776.1	766.7
50°	3060.6	1270.9	876.6	843.1	887.0	920.5	897.5	839.9	793.9	759.4	754.2
52.5°	3346.2	1366.1	861.9	806.5	852.5	912.1	897.5	836.8	776.1	744.8	739.5
55°	3645.3	1475.9	845.2	762.5	813.8	914.2	904.8	814.8	762.5	745.8	741.6
57.5°	4016.7	1607.7	814.8	711.3	779.3	895.4	875.5	802.3	753.1	739.5	735.3
60°	4498.9	1803.3	757.3	659.0	739.5	861.9	849.4	781.4	728.0	716.5	713.4
62.5°	5262.5	2134.9	687.2	608.8	692.5	791.8	810.7	741.6	696.6	695.6	694.6
65°	6507.2	2533.4	604.6	563.8	643.3	734.3	759.4	700.8	664.2	675.7	674.7
67.5°	7379.6	2568.0	536.6	516.7	585.8	671.5	708.1	659.0	619.2	641.2	640.2
70°	6759.3	2003.1	478.0	467.6	524.1	603.5	652.7	606.7	566.9	587.9	583.7
72.5°	5700.8	1535.5	422.6	416.3	461.3	532.4	581.6	554.4	512.5	512.5	503.1
75°	4581.5	1266.7	364.0	360.9	391.2	460.2	515.7	469.7	431.0	428.9	422.6
77.5°	2627.6	830.5	305.4	303.3	312.8	384.9	400.6	391.2	361.9	348.3	344.1
80°	1047.1	432.0	240.6	227.0	236.4	282.4	315.9	300.2	275.1	258.4	249.0
82.5°	405.9	216.5	169.5	148.5	162.1	204.0	229.1	223.8	207.1	169.5	159.0
85°	165.3	105.6	101.5	85.8	94.1	109.8	131.8	114.0	94.1	66.9	63.8
87.5°	43.9	38.7	37.7	23.0	17.8	5.2	1.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)