

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: P636786

Luminaire Tested: GWS-SA4B-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636786
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-SA4B-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14360.7 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

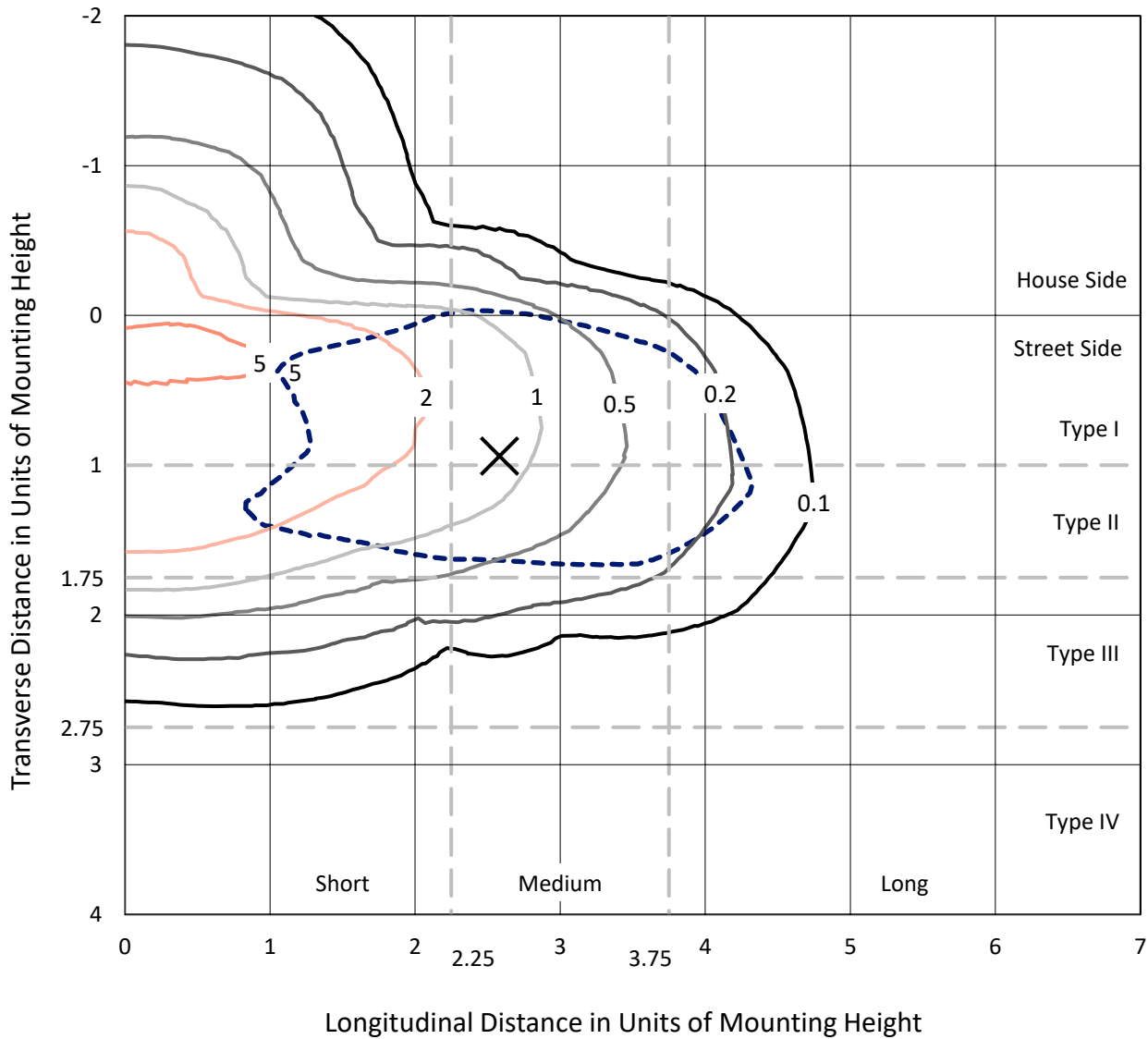
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636786
 CATALOG NUMBER: GWS-SA4B-740-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

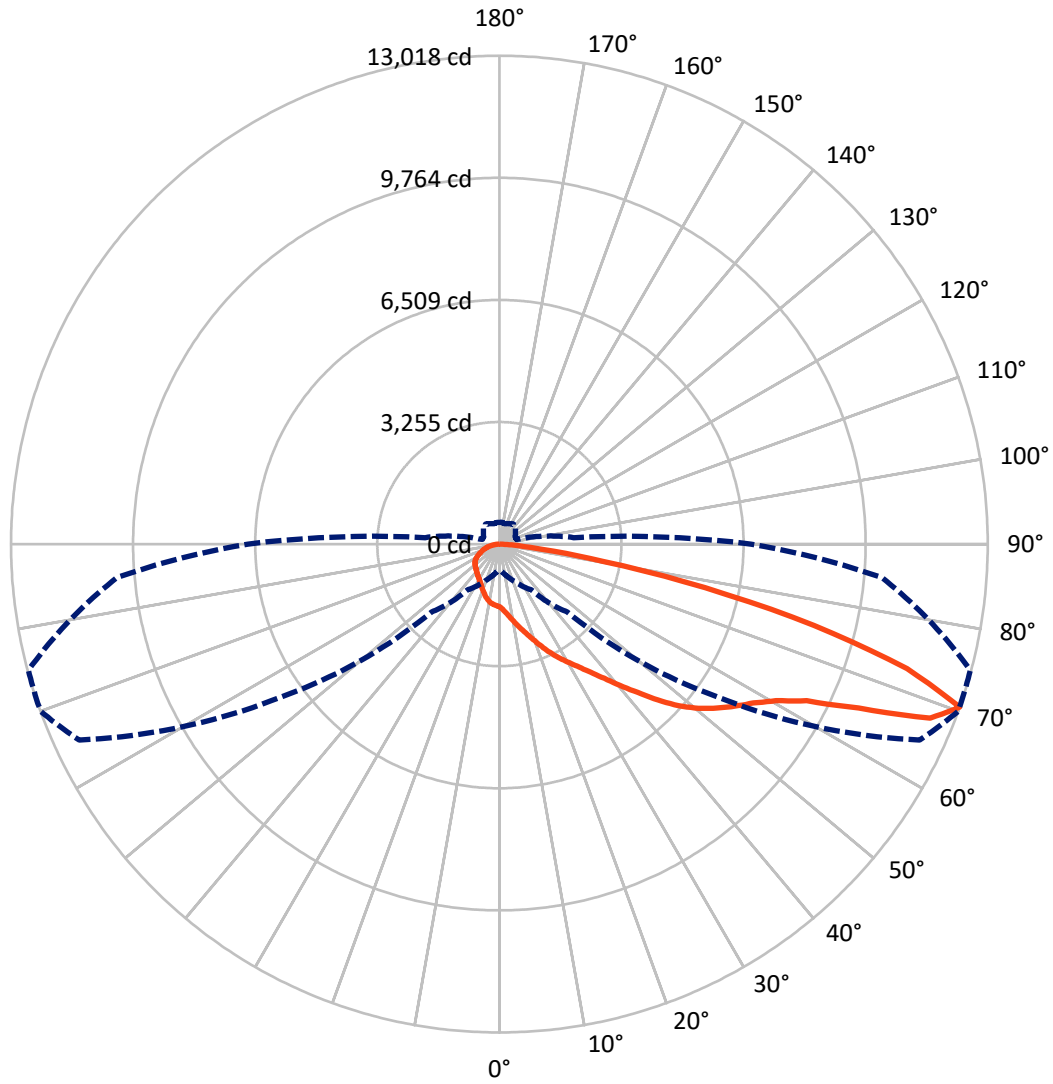
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

REPORT NUMBER: P636786
CATALOG NUMBER: GWS-SA4B-740-U-T2-W

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	2573.5	0.0	2573.5
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	11787.2	0.0	11787.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	14360.7	0.0	14360.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.2
10°-20°	553.7	3.9
20°-30°	980.9	6.8
30°-40°	1476.3	10.3
40°-50°	2233.5	15.6
50°-60°	3199.6	22.3
60°-70°	3536.9	24.6
70°-80°	1995.9	13.9
80°-90°	213.5	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°	14360.7	100.0
0°-180°	14360.7	100.0

Coefficient of Utilization



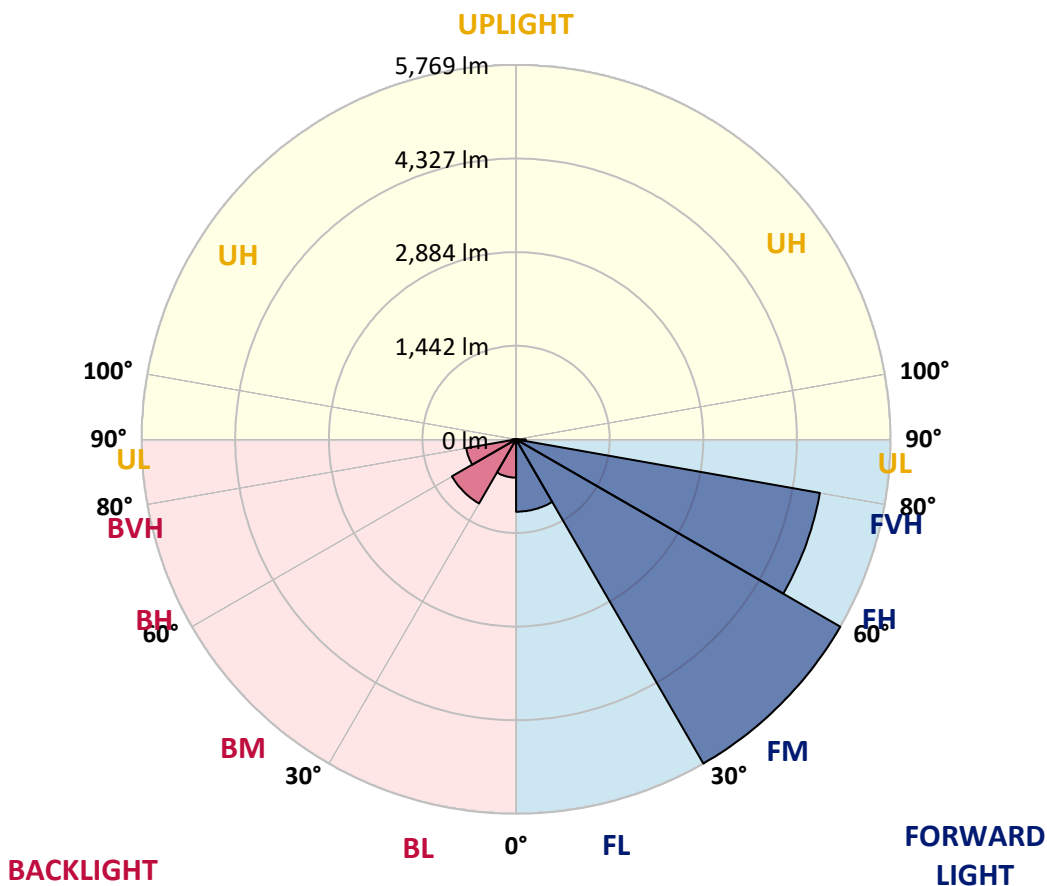
REPORT NUMBER: P636786

CATALOG NUMBER: GWS-SA4B-740-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.8	7.8			
FM (30°-60°)	5768.7	40.2			
FH (60°-80°)	4752.8	33.1			G2/5000
FVH (80°-90°)	150.9	1.1			G2/225
BL (0°-30°)	590.1	4.1	B2/1000		
BM (30°-60°)	1140.8	7.9	B2/2500		
BH (60°-80°)	780.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	62.6	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





REPORT NUMBER: P636786
 CATALOG NUMBER: GWS-SA4B-740-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8
2.5°	1855.3	1852.2	1854.3	1852.2	1840.8	1812.8	1789.9	1760.9	1741.2	1729.8	1702.8
5°	2073.2	2070.1	2062.8	2052.5	2031.7	1993.3	1936.2	1872.9	1834.6	1805.5	1748.4
7.5°	2229.9	2229.9	2228.9	2216.4	2201.9	2161.4	2094.0	2011.0	1954.9	1905.1	1811.7
10°	2309.8	2315.0	2322.2	2339.9	2336.8	2315.0	2251.7	2162.4	2091.9	2033.8	1894.7
12.5°	2353.4	2356.5	2368.9	2405.3	2442.6	2447.8	2410.4	2317.1	2240.3	2162.4	1987.1
15°	2409.4	2410.4	2427.0	2470.6	2525.6	2580.6	2571.3	2477.9	2399.0	2312.9	2089.8
17.5°	2453.0	2460.3	2490.3	2541.2	2609.7	2685.4	2731.1	2673.0	2575.4	2476.9	2201.9
20°	2468.6	2473.7	2513.2	2591.0	2684.4	2791.3	2892.9	2877.4	2778.8	2662.6	2328.5
22.5°	2524.6	2524.6	2553.6	2619.0	2729.0	2884.6	3049.6	3090.1	3002.9	2867.0	2464.4
25°	2648.1	2643.9	2657.4	2684.4	2767.4	2959.4	3204.2	3325.6	3228.1	3075.6	2600.3
27.5°	2817.2	2815.1	2814.1	2818.2	2846.3	3024.7	3335.0	3545.6	3448.1	3275.8	2721.7
30°	3000.9	2994.6	3008.1	2995.7	2989.4	3102.6	3446.0	3742.8	3667.0	3474.0	2822.4
32.5°	3250.9	3239.5	3236.4	3195.9	3171.0	3224.0	3535.2	3966.9	3906.7	3687.8	2935.5
35°	3580.9	3570.5	3517.6	3453.3	3379.6	3404.5	3646.3	4185.8	4190.0	3955.5	3083.9
37.5°	3914.0	3916.1	3874.6	3723.1	3647.3	3632.8	3815.4	4452.5	4541.8	4275.1	3275.8
40°	4191.0	4203.5	4203.5	4043.7	3930.6	3917.1	4053.0	4769.0	4946.4	4667.3	3518.6
42.5°	4401.7	4413.1	4449.4	4334.2	4214.9	4261.6	4341.5	5086.5	5405.1	5151.9	3825.8
45°	4633.1	4642.4	4662.1	4595.7	4526.2	4650.7	4668.4	5466.3	5930.1	5695.6	4182.7
47.5°	4940.2	4931.9	4934.0	4885.2	4831.3	5032.6	5028.4	5785.9	6437.5	6291.2	4569.8
50°	5322.1	5337.6	5323.1	5226.6	5163.3	5347.0	5370.8	6139.7	6883.7	6880.6	4959.9
52.5°	5689.4	5695.6	5772.4	5776.6	5646.9	5608.5	5670.7	6496.7	7260.4	7420.2	5334.5
55°	5708.1	5731.9	5962.3	6128.3	6337.9	6029.7	5973.7	6837.0	7624.6	7948.3	5723.6
57.5°	5310.7	5349.0	5740.2	6098.2	6681.4	6753.0	6492.5	7277.0	7988.8	8468.2	6174.0
60°	4461.9	4541.8	5073.0	5620.9	6526.8	7272.8	7554.0	7874.7	8467.2	8999.5	6720.8
62.5°	2849.4	2880.5	3625.5	4542.8	5830.5	7222.0	8710.0	8927.9	9195.6	9691.6	7563.4
65°	1426.8	1526.4	1963.2	2711.4	4204.5	6363.9	9294.2	10856.9	10529.0	10876.6	8928.9
67.5°	968.1	1000.3	1221.3	1629.1	2465.4	4508.6	8932.0	12481.8	12385.3	12442.4	10384.7
70°	713.9	734.7	909.0	1153.9	1491.1	2559.9	7111.0	12359.4	13018.3	12997.5	10232.2
72.5°	520.9	531.3	663.1	881.0	1105.1	1324.0	4342.5	9984.2	11364.3	11963.0	8948.6
75°	378.7	391.2	460.7	658.9	859.2	826.0	2143.8	7211.6	8666.4	9818.2	7290.5
77.5°	282.2	297.8	330.0	413.0	601.8	591.5	926.6	4682.9	5605.3	6412.6	4428.7
80°	203.4	206.5	225.2	264.6	381.9	346.6	441.0	2441.6	2799.6	3067.3	1736.0
82.5°	123.5	126.6	150.5	162.9	236.6	217.9	229.3	790.7	1133.1	1202.6	648.5
85°	36.3	38.4	68.5	74.7	98.6	93.4	92.4	321.7	383.9	490.8	255.3
87.5°	0.0	0.0	0.0	0.0	1.0	6.2	11.4	57.1	86.1	119.3	62.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636786
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8	1674.8
2.5°	1692.4	1668.5	1656.1	1634.3	1618.7	1603.2	1587.6	1573.1	1566.8	1557.5	1559.6
5°	1722.5	1685.1	1647.8	1605.2	1568.9	1538.8	1511.8	1488.0	1477.6	1468.3	1472.4
7.5°	1768.1	1712.1	1640.5	1562.7	1505.6	1464.1	1436.1	1419.5	1414.3	1407.0	1407.0
10°	1826.3	1742.2	1616.6	1505.6	1437.1	1403.9	1391.5	1390.4	1395.6	1396.7	1394.6
12.5°	1890.6	1771.3	1581.4	1438.2	1380.1	1369.7	1379.0	1396.7	1414.3	1423.6	1421.6
15°	1957.0	1789.9	1521.2	1373.8	1338.6	1352.0	1382.1	1417.4	1451.7	1469.3	1468.3
17.5°	2019.3	1794.1	1443.4	1311.6	1302.2	1336.5	1388.4	1443.4	1490.1	1515.0	1516.0
20°	2088.8	1786.8	1363.5	1255.5	1265.9	1322.0	1390.4	1456.9	1511.8	1536.7	1543.0
22.5°	2152.1	1761.9	1285.6	1202.6	1234.8	1304.3	1373.8	1436.1	1484.9	1508.7	1517.0
25°	2209.1	1714.2	1200.6	1158.0	1210.9	1279.4	1332.3	1375.9	1410.2	1424.7	1436.1
27.5°	2240.3	1642.6	1136.2	1122.7	1188.1	1244.1	1273.2	1286.7	1298.1	1293.9	1302.2
30°	2246.5	1553.4	1080.2	1094.7	1153.9	1195.4	1201.6	1188.1	1168.4	1136.2	1143.5
32.5°	2240.3	1450.6	1033.5	1064.6	1115.5	1140.4	1132.1	1096.8	1049.1	999.2	1002.4
35°	2242.3	1346.9	995.1	1031.4	1070.8	1084.3	1063.6	1014.8	964.0	918.3	916.2
37.5°	2265.2	1259.7	962.9	999.2	1027.3	1029.3	1006.5	955.7	929.7	895.5	891.3
40°	2328.5	1195.4	933.9	967.1	984.7	983.7	957.7	921.4	939.1	927.7	924.5
42.5°	2432.2	1155.9	910.0	932.8	945.3	947.4	926.6	903.8	942.2	927.7	922.5
45°	2599.3	1153.9	893.4	898.6	918.3	932.8	918.3	892.4	906.9	836.3	822.9
47.5°	2797.5	1189.1	881.0	868.5	902.7	928.7	905.9	864.4	834.3	769.9	760.6
50°	3036.1	1260.7	869.5	836.3	879.9	913.1	890.3	833.2	787.6	753.3	748.1
52.5°	3319.4	1355.2	855.0	800.0	845.7	904.8	890.3	830.1	769.9	738.8	733.6
55°	3616.2	1464.1	838.4	756.4	807.3	906.9	897.6	808.3	756.4	739.8	735.7
57.5°	3984.5	1594.9	808.3	705.6	773.0	888.2	868.5	795.9	747.1	733.6	729.5
60°	4462.9	1788.9	751.3	653.7	733.6	855.0	842.6	775.1	722.2	710.8	707.7
62.5°	5220.4	2117.8	681.7	603.9	686.9	785.5	804.2	735.7	691.1	690.0	689.0
65°	6455.2	2513.2	599.8	559.3	638.2	728.4	753.3	695.2	658.9	670.3	669.3
67.5°	7320.6	2547.4	532.3	512.6	581.1	666.2	702.5	653.7	614.3	636.1	635.0
70°	6705.2	1987.1	474.2	463.8	519.9	598.7	647.5	601.8	562.4	583.2	579.0
72.5°	5655.2	1523.3	419.2	413.0	457.6	528.2	576.9	550.0	508.4	508.4	499.1
75°	4544.9	1256.6	361.1	358.0	388.1	456.6	511.6	465.9	427.5	425.4	419.2
77.5°	2606.6	823.9	303.0	300.9	310.3	381.9	397.4	388.1	359.0	345.5	341.4
80°	1038.7	428.5	238.7	225.2	234.5	280.2	313.4	297.8	272.9	256.3	247.0
82.5°	402.6	214.8	168.1	147.3	160.8	202.3	227.2	222.1	205.5	168.1	157.7
85°	163.9	104.8	100.7	85.1	93.4	109.0	130.7	113.1	93.4	66.4	63.3
87.5°	43.6	38.4	37.4	22.8	17.6	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)