

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: P640363

Luminaire Tested: GWS-SA5D-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26674.3 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204.6
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

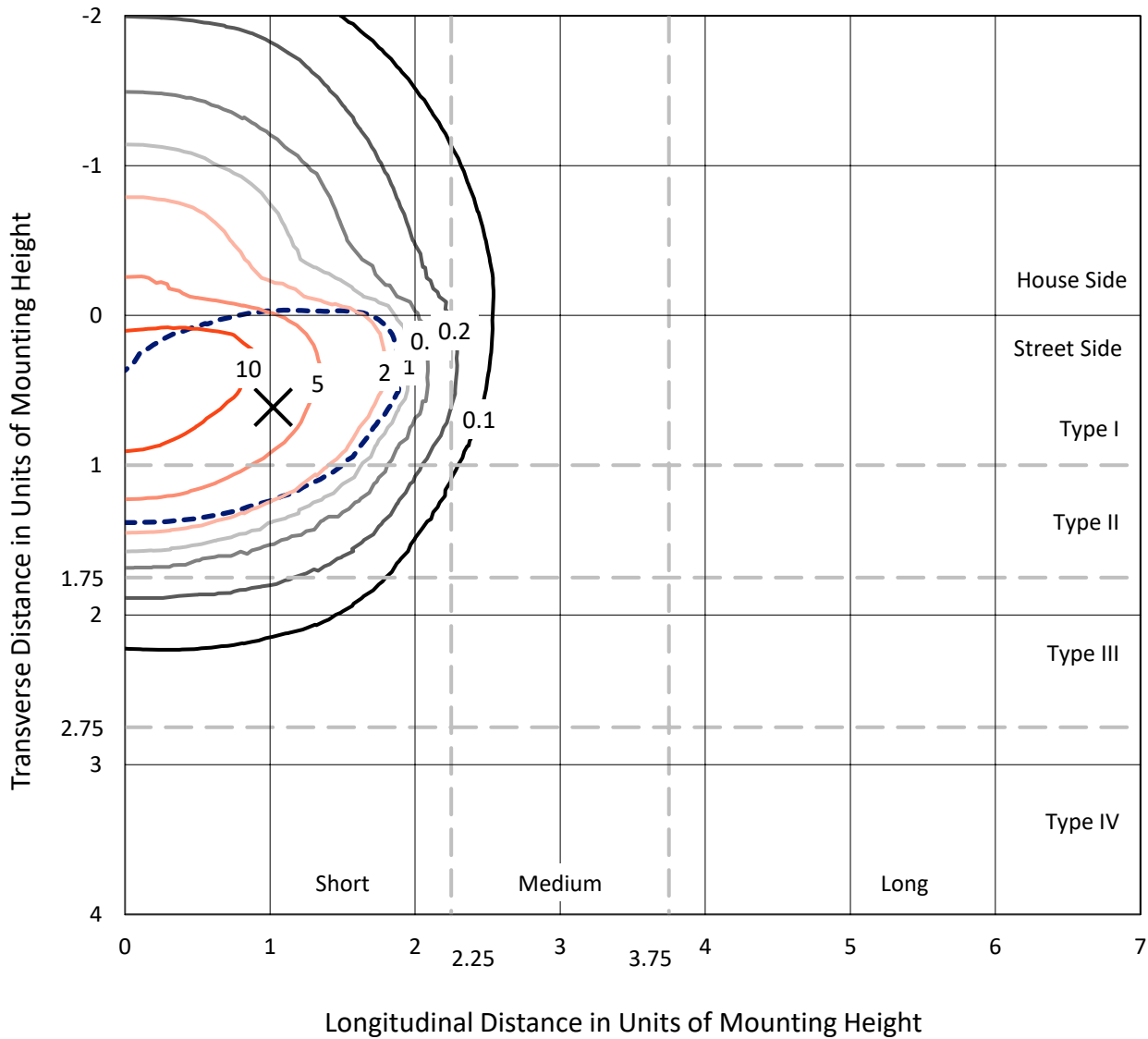


REPORT NUMBER: P640363

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

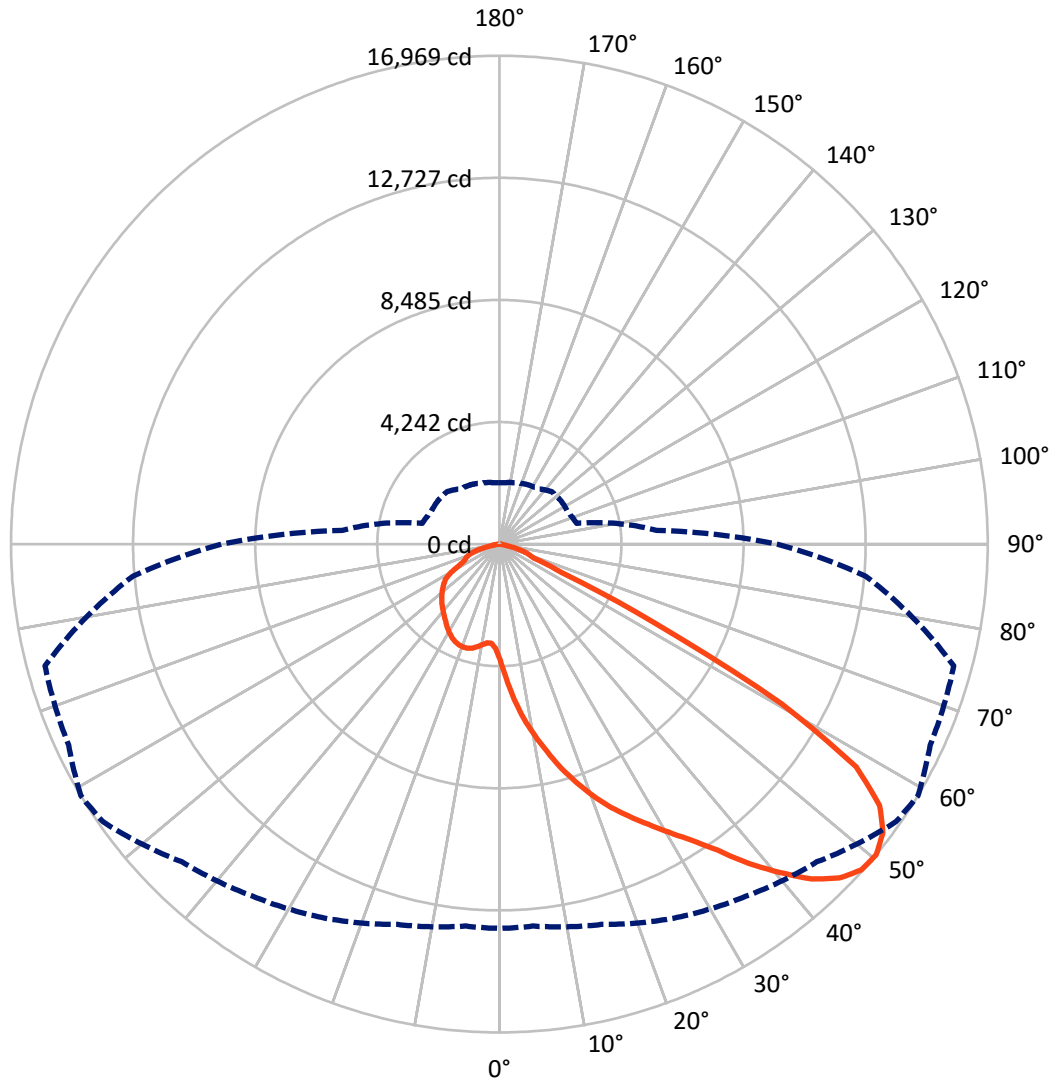
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

REPORT NUMBER: P640363
CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P640363

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6135.6	0.0	6135.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	20538.7	0.0	20538.7
	% Fixture	77.0	0.0	77.0
Total	Lumens	26674.3	0.0	26674.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.4	1.7
10°-20°	1645.8	6.2
20°-30°	3116.5	11.7
30°-40°	5168.1	19.4
40°-50°	7059.9	26.5
50°-60°	6408.6	24.0
60°-70°	2134.1	8.0
70°-80°	622.4	2.3
80°-90°	65.4	0.2
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°	26674.3	100.0
0°-180°	26674.3	100.0

Coefficient of Utilization



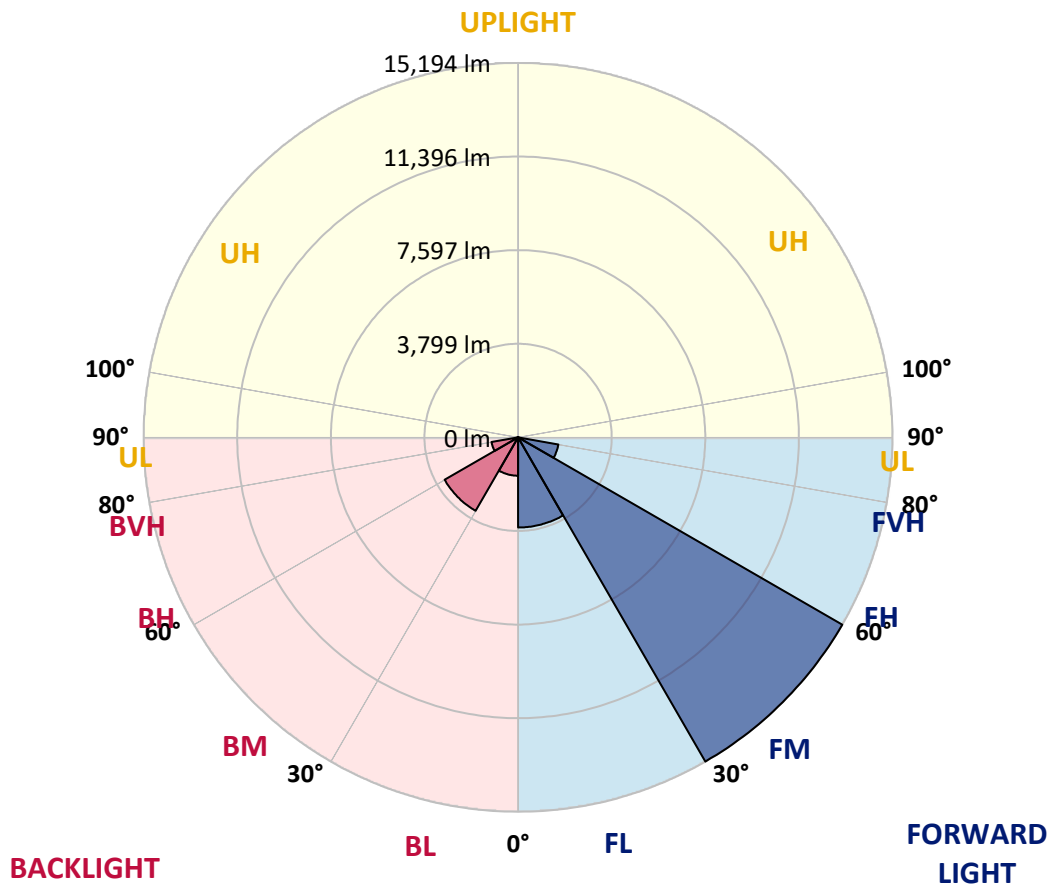
REPORT NUMBER: P640363

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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°)	3657.7	13.7			
FM (30°-60°)	15194.0	57.0			
FH (60°-80°)	1661.4	6.2			G1/1800
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	1558.0	5.8	B3/2500		
BM (30°-60°)	3442.7	12.9	B3/5000		
BH (60°-80°)	1095.1	4.1	B3/2500		G3/2500
BVH (80°-90°)	39.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





REPORT NUMBER: P640363

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3
2.5°	5236.4	5275.5	5214.6	5219.0	5066.9	4997.4	4801.8	4686.7	4610.6	4397.7	4204.3
5°	6292.3	6246.7	6198.9	6170.7	6038.1	5851.3	5607.9	5414.5	5236.4	4819.2	4417.2
7.5°	6939.8	6915.9	6883.3	6865.9	6735.6	6540.0	6296.7	6131.5	5873.0	5308.1	4675.8
10°	7489.5	7461.3	7441.7	7454.8	7348.3	7222.3	6957.2	6768.2	6477.0	5825.2	4988.7
12.5°	7915.4	7930.6	7937.1	8006.6	7961.0	7885.0	7611.2	7411.3	7087.6	6370.6	5355.9
15°	8252.2	8247.8	8323.9	8456.4	8530.3	8482.5	8263.0	8095.7	7700.3	6907.2	5751.3
17.5°	8330.4	8334.7	8454.2	8686.7	8927.9	9045.2	8921.4	8721.5	8330.4	7437.4	6162.0
20°	8393.4	8402.1	8525.9	8791.0	9143.0	9471.1	9490.6	9347.2	9010.5	8011.0	6579.1
22.5°	8791.0	8810.6	8843.2	9010.5	9327.7	9742.7	9970.8	9940.4	9657.9	8612.8	7028.9
25°	9836.1	9777.4	9618.8	9571.0	9692.7	10029.5	10418.4	10477.1	10338.0	9275.5	7513.4
27.5°	11126.7	11063.7	10829.1	10581.4	10318.5	10435.8	10850.8	11026.8	11029.0	10005.6	8000.1
30°	12297.9	12247.9	12056.7	11702.5	11248.4	11078.9	11385.3	11622.1	11763.4	10848.6	8554.2
32.5°	13299.5	13253.9	12995.3	12706.3	12263.1	11922.0	12032.8	12260.9	12591.2	11939.4	9242.9
35°	14142.5	14096.9	13849.2	13558.1	13147.4	12943.2	12904.1	13060.5	13488.5	13077.9	10033.8
37.5°	14827.0	14781.3	14522.8	14249.0	13936.1	13949.2	14007.8	14083.9	14329.4	14296.8	10879.0
40°	15270.2	15222.4	15037.7	14842.2	14644.4	14800.9	15092.0	15000.8	15131.1	15281.1	11656.9
42.5°	15467.9	15407.1	15300.6	15257.2	15196.3	15439.7	16000.3	15909.0	15752.6	15937.2	12234.8
45°	15270.2	15218.1	15215.9	15348.4	15489.7	15802.5	16628.2	16554.3	16158.9	16254.5	12580.3
47.5°	14664.0	14618.4	14742.2	15089.9	15437.5	15893.8	16908.5	16921.5	16447.8	16387.0	12804.1
50°	13353.8	13323.4	13681.9	14340.3	14939.9	15609.2	16819.4	16969.3	16517.4	16345.7	12775.9
52.5°	10690.0	10831.2	11611.3	12710.7	13875.3	15109.4	16489.1	16684.7	16182.8	16074.1	12623.8
55°	7317.9	7383.1	8163.1	9768.8	11615.6	14027.4	15730.8	16032.8	15787.3	16028.5	12782.4
57.5°	3789.3	3841.5	4456.3	5881.7	7878.5	11085.5	13625.4	14616.2	14989.9	16258.8	13275.6
60°	1555.7	1599.2	1853.4	2542.1	3974.0	6455.3	9805.7	11274.5	12152.3	14848.7	11789.4
62.5°	1129.8	1151.6	1273.2	1516.6	2081.5	3163.5	5549.2	6090.3	6707.3	9306.0	7485.2
65°	951.7	975.6	1073.3	1221.1	1518.8	1940.3	2370.5	2383.5	2626.9	3791.5	2774.6
67.5°	797.4	819.1	906.0	1032.1	1227.6	1377.5	1273.2	1275.4	1271.1	1375.4	1329.7
70°	621.4	638.8	725.7	860.4	962.5	884.3	995.1	1101.6	1056.0	1097.2	1160.3
72.5°	454.1	473.7	549.7	651.8	625.8	630.1	806.1	914.7	888.7	934.3	993.0
75°	328.1	341.1	380.2	325.9	343.3	415.0	567.1	625.8	651.8	690.9	743.1
77.5°	106.5	106.5	119.5	149.9	186.9	230.3	289.0	312.9	352.0	395.4	432.4
80°	54.3	56.5	67.4	82.6	104.3	132.5	169.5	180.3	199.9	223.8	239.0
82.5°	26.1	28.2	32.6	41.3	54.3	69.5	93.4	104.3	117.3	132.5	143.4
85°	6.5	6.5	8.7	13.0	17.4	26.1	34.8	41.3	52.1	63.0	69.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.5	8.7	10.9	13.0	17.4
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: P640363

CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3	4041.3
2.5°	4117.4	3995.7	3839.3	3706.7	3585.1	3491.6	3411.2	3372.1	3335.2	3309.1	3317.8
5°	4230.4	4021.8	3730.6	3528.6	3404.7	3341.7	3298.3	3276.5	3272.2	3254.8	3248.3
7.5°	4395.5	4097.8	3708.9	3504.7	3422.1	3389.5	3365.6	3352.6	3359.1	3341.7	3335.2
10°	4599.7	4223.9	3763.2	3582.9	3511.2	3487.3	3461.2	3443.8	3435.1	3409.1	3404.7
12.5°	4854.0	4380.3	3861.0	3682.8	3611.1	3569.9	3535.1	3504.7	3485.1	3452.5	3443.8
15°	5127.7	4554.1	3976.2	3780.6	3695.9	3635.0	3578.5	3532.9	3498.2	3454.7	3448.2
17.5°	5425.4	4736.6	4071.8	3848.0	3739.3	3658.9	3576.4	3509.0	3461.2	3404.7	3398.2
20°	5736.1	4921.3	4143.5	3880.6	3741.5	3632.9	3522.1	3433.0	3372.1	3315.6	3311.3
22.5°	6057.7	5090.8	4186.9	3871.9	3706.7	3572.0	3439.5	3339.5	3267.8	3200.5	3196.1
25°	6381.4	5253.7	4197.8	3837.1	3637.2	3480.8	3348.2	3230.9	3150.5	3074.5	3065.8
27.5°	6709.5	5390.6	4171.7	3767.6	3543.8	3374.3	3241.8	3126.6	3044.0	2968.0	2955.0
30°	7059.3	5508.0	4115.2	3676.3	3435.1	3261.3	3131.0	3044.0	2965.8	2889.8	2876.7
32.5°	7433.0	5610.1	4034.8	3565.5	3309.1	3148.3	3052.7	2974.5	2896.3	2828.9	2815.9
35°	7878.5	5677.4	3915.3	3422.1	3191.8	3065.8	3000.6	2909.3	2813.7	2739.9	2733.3
37.5°	8339.1	5729.6	3771.9	3285.2	3089.7	3018.0	2963.7	2839.8	2720.3	2631.2	2620.4
40°	8784.5	5773.0	3593.8	3157.0	2996.2	2983.2	2909.3	2755.1	2548.7	2448.7	2440.0
42.5°	9199.5	5786.1	3406.9	3020.1	2911.5	2905.0	2822.4	2583.4	2424.8	2361.8	2353.1
45°	9484.1	5775.2	3213.5	2892.0	2826.8	2792.0	2705.1	2459.6	2361.8	2305.3	2294.4
47.5°	9694.9	5718.7	2996.2	2757.2	2731.2	2683.4	2496.5	2381.4	2290.1	2233.6	2222.7
50°	9657.9	5484.1	2776.8	2626.9	2616.0	2574.7	2344.4	2283.6	2203.2	2142.3	2133.7
52.5°	9466.7	5038.6	2553.0	2483.5	2505.2	2424.8	2235.8	2166.2	2096.7	2027.2	2012.0
55°	9514.5	4717.1	2383.5	2344.4	2383.5	2201.0	2114.1	2040.2	1975.0	1907.7	1894.7
57.5°	9723.1	4399.9	2203.2	2194.5	2235.8	2029.4	1957.7	1864.2	1770.8	1716.5	1716.5
60°	8165.3	3207.0	1886.0	1907.7	2001.1	1890.3	1827.3	1731.7	1629.6	1581.8	1581.8
62.5°	4827.9	2012.0	1564.4	1540.5	1599.2	1668.7	1703.4	1625.2	1503.6	1440.5	1442.7
65°	2127.1	1464.4	1379.7	1360.2	1342.8	1390.6	1486.2	1492.7	1364.5	1290.6	1292.8
67.5°	1310.2	1325.4	1290.6	1275.4	1260.2	1251.5	1242.8	1247.2	1212.4	1145.0	1142.9
70°	1182.0	1223.3	1199.4	1186.3	1166.8	1151.6	1099.4	1014.7	956.0	938.6	958.2
72.5°	1016.9	1073.3	1060.3	1053.8	1029.9	993.0	923.4	840.9	771.3	727.9	736.6
75°	767.0	812.6	819.1	821.3	795.2	760.5	688.8	619.2	558.4	512.8	523.6
77.5°	441.1	467.1	473.7	480.2	460.6	447.6	399.8	349.8	317.2	269.4	282.5
80°	245.5	256.4	256.4	258.6	247.7	232.5	199.9	171.6	156.4	134.7	136.9
82.5°	147.7	152.1	154.3	156.4	149.9	134.7	110.8	91.3	82.6	71.7	69.5
85°	71.7	76.0	76.0	78.2	67.4	58.7	45.6	34.8	30.4	21.7	23.9
87.5°	17.4	19.6	19.6	17.4	15.2	10.9	6.5	2.2	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)