

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: P637778

Luminaire Tested: GWS-SA4D-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637778
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-SA4D-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21552.8 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 162.1
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

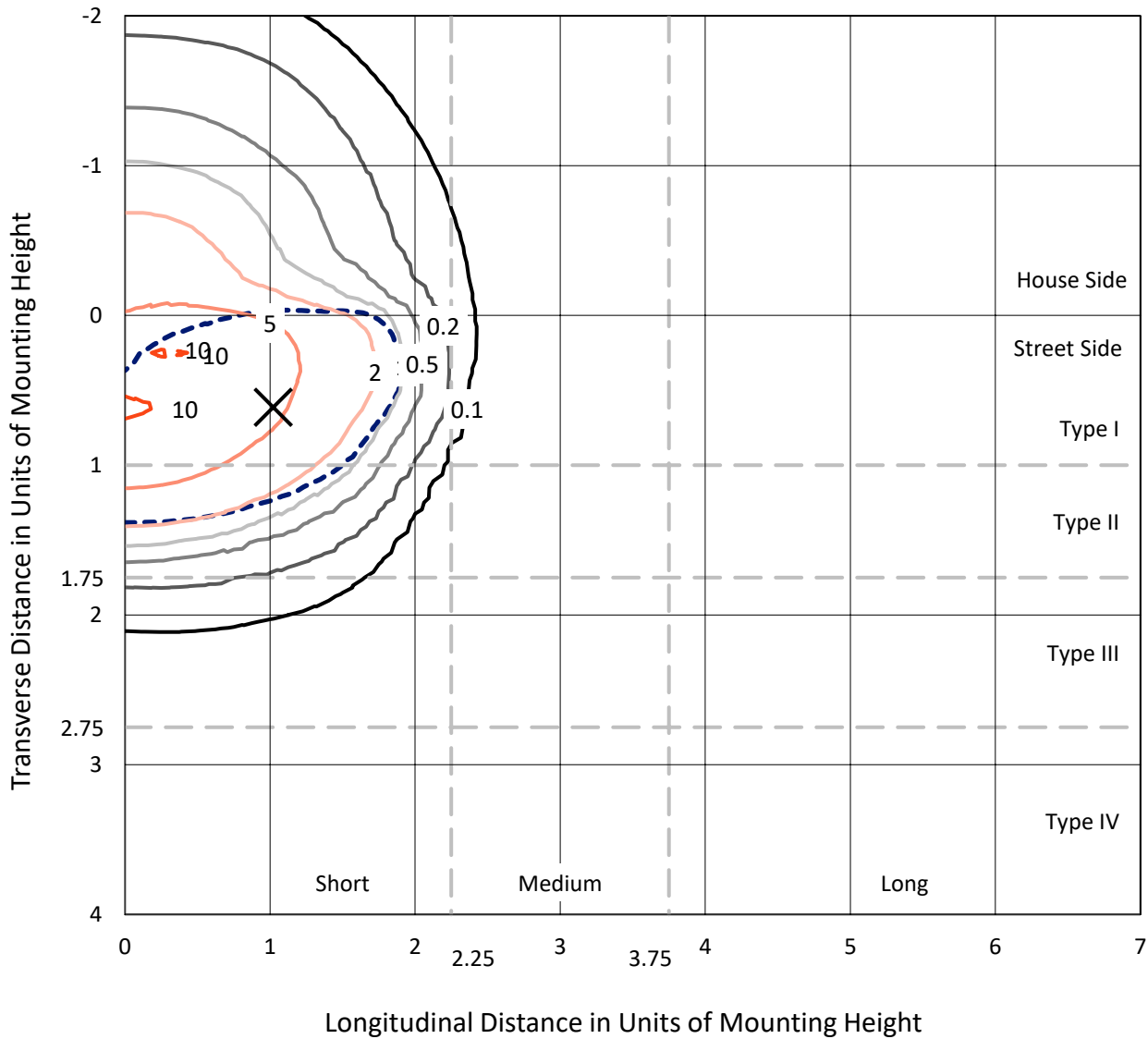


REPORT NUMBER: P637778

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

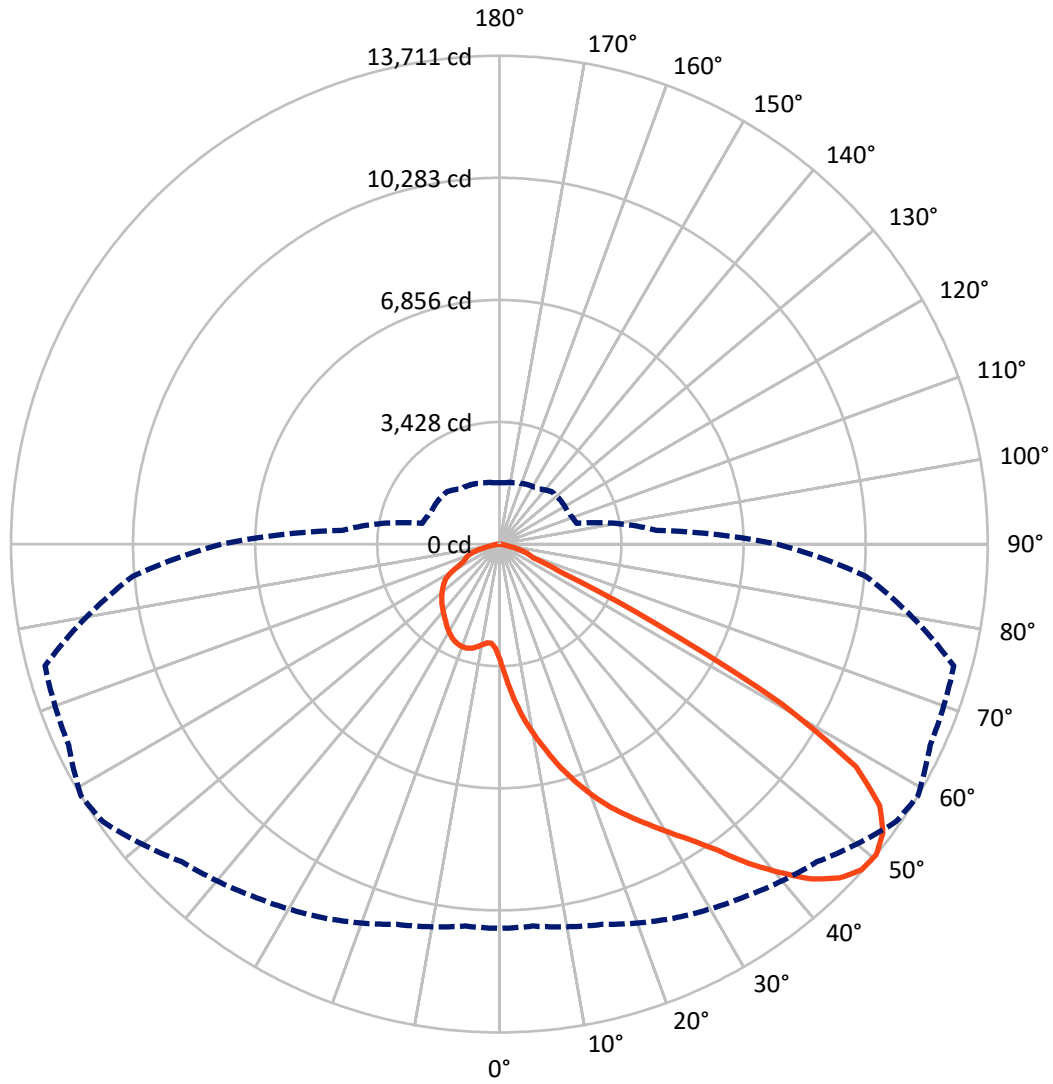
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

REPORT NUMBER: P637778
CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637778

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4957.5	0.0	4957.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	16595.2	0.0	16595.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	21552.8	0.0	21552.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.3	1.7
10°-20°	1329.8	6.2
20°-30°	2518.1	11.7
30°-40°	4175.8	19.4
40°-50°	5704.4	26.5
50°-60°	5178.1	24.0
60°-70°	1724.4	8.0
70°-80°	502.9	2.3
80°-90°	52.8	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°	21552.8	100.0
0°-180°	21552.8	100.0

Coefficient of Utilization



REPORT NUMBER: P637778

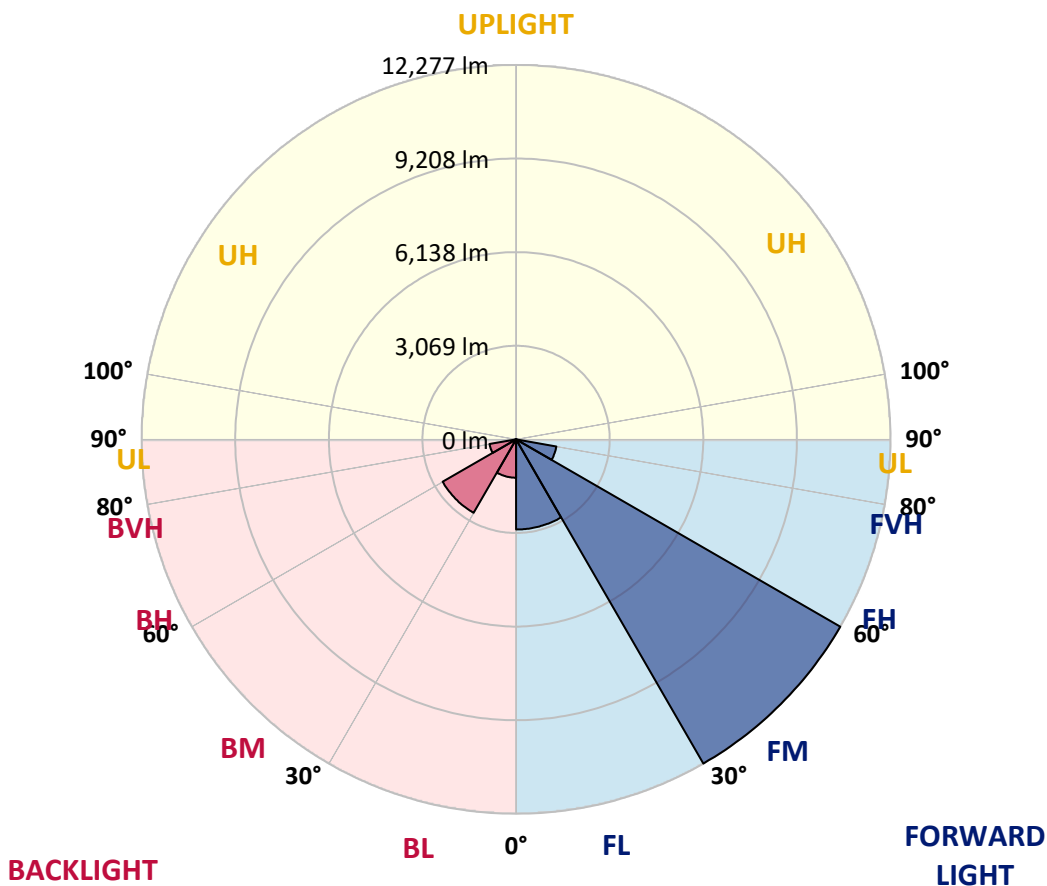
CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.4	13.7			
FM (30°-60°)	12276.7	57.0			
FH (60°-80°)	1342.4	6.2			G1/1800
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1258.8	5.8	B3/2500		
BM (30°-60°)	2781.7	12.9	B3/5000		
BH (60°-80°)	884.9	4.1	B2/1000		G2/1000
BVH (80°-90°)	32.2	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-G2

Type II Short





REPORT NUMBER: P637778

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4
2.5°	4231.0	4262.6	4213.4	4216.9	4094.0	4037.9	3879.9	3786.8	3725.4	3553.3	3397.1
5°	5084.2	5047.3	5008.7	4985.9	4878.8	4727.8	4531.2	4374.9	4231.0	3893.9	3569.1
7.5°	5607.4	5588.1	5561.7	5547.7	5442.3	5284.3	5087.7	4954.3	4745.4	4288.9	3778.0
10°	6051.5	6028.7	6012.9	6023.4	5937.4	5835.6	5621.4	5468.7	5233.4	4706.7	4030.8
12.5°	6395.6	6407.9	6413.2	6469.4	6432.5	6371.0	6149.8	5988.3	5726.7	5147.4	4327.5
15°	6667.7	6664.2	6725.7	6832.8	6892.5	6853.8	6676.5	6541.3	6221.8	5581.0	4647.1
17.5°	6730.9	6734.5	6831.0	7018.9	7213.7	7308.5	7208.5	7046.9	6730.9	6009.4	4978.9
20°	6781.9	6788.9	6888.9	7103.1	7387.5	7652.6	7668.4	7552.6	7280.4	6472.9	5315.9
22.5°	7103.1	7118.9	7145.3	7280.4	7536.8	7872.1	8056.4	8031.8	7803.6	6959.2	5679.3
25°	7947.6	7900.2	7772.0	7733.4	7831.7	8103.8	8418.1	8465.5	8353.1	7494.6	6070.8
27.5°	8990.4	8939.5	8749.9	8549.7	8337.3	8432.1	8767.4	8909.6	8911.4	8084.5	6464.1
30°	9936.7	9896.3	9741.8	9455.6	9088.7	8951.8	9199.3	9390.7	9504.8	8765.7	6911.8
32.5°	10746.0	10709.1	10500.2	10266.7	9908.6	9632.9	9722.5	9906.8	10173.7	9647.0	7468.3
35°	11427.2	11390.3	11190.1	10954.9	10623.1	10458.1	10426.5	10552.9	10898.7	10566.9	8107.3
37.5°	11980.2	11943.3	11734.4	11513.2	11260.4	11270.9	11318.3	11379.7	11578.1	11551.8	8790.3
40°	12338.3	12299.7	12150.5	11992.5	11832.7	11959.1	12194.3	12120.6	12225.9	12347.1	9418.8
42.5°	12498.1	12448.9	12362.9	12327.8	12278.6	12475.2	12928.2	12854.4	12728.0	12877.3	9885.7
45°	12338.3	12296.2	12294.4	12401.5	12515.6	12768.4	13435.5	13375.9	13056.3	13133.6	10164.9
47.5°	11848.5	11811.6	11911.7	12192.6	12473.5	12842.2	13662.0	13672.6	13289.8	13240.7	10345.7
50°	10789.9	10765.3	11055.0	11586.9	12071.5	12612.2	13590.0	13711.2	13346.0	13207.3	10322.9
52.5°	8637.5	8751.6	9381.9	10270.2	11211.2	12208.4	13323.2	13481.2	13075.7	12987.9	10200.0
55°	5912.8	5965.5	6595.8	7893.1	9385.4	11334.1	12710.5	12954.5	12756.1	12951.0	10328.1
57.5°	3061.8	3103.9	3600.7	4752.4	6365.8	8957.0	11009.3	11809.9	12111.8	13137.1	10726.7
60°	1257.0	1292.1	1497.5	2054.0	3211.0	5215.9	7923.0	9109.8	9819.0	11997.7	9525.8
62.5°	912.9	930.5	1028.8	1225.4	1681.9	2556.1	4483.8	4920.9	5419.5	7519.2	6048.0
65°	768.9	788.3	867.3	986.6	1227.2	1567.7	1915.4	1925.9	2122.5	3063.5	2241.9
67.5°	644.3	661.9	732.1	833.9	991.9	1113.0	1028.8	1030.5	1027.0	1111.3	1074.4
70°	502.1	516.1	586.4	695.2	777.7	714.5	804.1	890.1	853.2	886.6	937.5
72.5°	366.9	382.7	444.2	526.7	505.6	509.1	651.3	739.1	718.0	754.9	802.3
75°	265.1	275.6	307.2	263.3	277.4	335.3	458.2	505.6	526.7	558.3	600.4
77.5°	86.0	86.0	96.6	121.1	151.0	186.1	233.5	252.8	284.4	319.5	349.4
80°	43.9	45.6	54.4	66.7	84.3	107.1	136.9	145.7	161.5	180.8	193.1
82.5°	21.1	22.8	26.3	33.4	43.9	56.2	75.5	84.3	94.8	107.1	115.9
85°	5.3	5.3	7.0	10.5	14.0	21.1	28.1	33.4	42.1	50.9	56.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	5.3	7.0	8.8	10.5	14.0
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: P637778

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4	3265.4
2.5°	3326.8	3228.5	3102.1	2995.0	2896.7	2821.2	2756.3	2724.7	2694.8	2673.8	2680.8
5°	3418.1	3249.6	3014.4	2851.1	2751.0	2700.1	2665.0	2647.4	2643.9	2629.9	2624.6
7.5°	3551.6	3311.0	2996.8	2831.8	2765.1	2738.7	2719.4	2708.9	2714.1	2700.1	2694.8
10°	3716.6	3412.9	3040.7	2895.0	2837.0	2817.7	2796.7	2782.6	2775.6	2754.5	2751.0
12.5°	3922.0	3539.3	3119.7	2975.7	2917.8	2884.4	2856.3	2831.8	2816.0	2789.6	2782.6
15°	4143.2	3679.7	3212.7	3054.7	2986.3	2937.1	2891.5	2854.6	2826.5	2791.4	2786.1
17.5°	4383.7	3827.2	3290.0	3109.2	3021.4	2956.4	2889.7	2835.3	2796.7	2751.0	2745.7
20°	4634.8	3976.4	3347.9	3135.5	3023.1	2935.4	2845.8	2773.8	2724.7	2679.0	2675.5
22.5°	4894.6	4113.4	3383.0	3128.5	2995.0	2886.2	2779.1	2698.3	2640.4	2586.0	2582.5
25°	5156.2	4245.0	3391.8	3100.4	2938.9	2812.5	2705.4	2610.6	2545.6	2484.2	2477.1
27.5°	5421.3	4355.6	3370.7	3044.2	2863.4	2726.4	2619.3	2526.3	2459.6	2398.1	2387.6
30°	5703.9	4450.4	3325.1	2970.5	2775.6	2635.1	2529.8	2459.6	2396.4	2334.9	2324.4
32.5°	6005.9	4532.9	3260.1	2880.9	2673.8	2543.9	2466.6	2403.4	2340.2	2285.8	2275.2
35°	6365.8	4587.4	3163.6	2765.1	2579.0	2477.1	2424.5	2350.7	2273.5	2213.8	2208.5
37.5°	6738.0	4629.5	3047.7	2654.5	2496.5	2438.5	2394.6	2294.6	2198.0	2126.0	2117.2
40°	7097.9	4664.6	2903.7	2550.9	2421.0	2410.4	2350.7	2226.1	2059.3	1978.6	1971.5
42.5°	7433.2	4675.1	2752.8	2440.3	2352.5	2347.2	2280.5	2087.4	1959.2	1908.3	1901.3
45°	7663.2	4666.4	2596.5	2336.7	2284.0	2255.9	2185.7	1987.3	1908.3	1862.7	1853.9
47.5°	7833.5	4620.7	2421.0	2227.8	2206.8	2168.2	2017.2	1924.1	1850.4	1804.7	1796.0
50°	7803.6	4431.1	2243.6	2122.5	2113.7	2080.4	1894.3	1845.1	1780.2	1731.0	1724.0
52.5°	7649.1	4071.2	2062.8	2006.6	2024.2	1959.2	1806.5	1750.3	1694.1	1638.0	1625.7
55°	7687.7	3811.4	1925.9	1894.3	1925.9	1778.4	1708.2	1648.5	1595.8	1541.4	1530.9
57.5°	7856.3	3555.1	1780.2	1773.1	1806.5	1639.7	1581.8	1506.3	1430.8	1386.9	1386.9
60°	6597.5	2591.3	1523.9	1541.4	1616.9	1527.4	1476.5	1399.2	1316.7	1278.1	1278.1
62.5°	3900.9	1625.7	1264.0	1244.7	1292.1	1348.3	1376.4	1313.2	1214.9	1164.0	1165.7
65°	1718.7	1183.3	1114.8	1099.0	1085.0	1123.6	1200.8	1206.1	1102.5	1042.8	1044.6
67.5°	1058.6	1070.9	1042.8	1030.5	1018.2	1011.2	1004.2	1007.7	979.6	925.2	923.4
70°	955.0	988.4	969.1	958.6	942.8	930.5	888.3	819.9	772.5	758.4	774.2
72.5°	821.6	867.3	856.7	851.5	832.2	802.3	746.1	679.4	623.2	588.1	595.1
75°	619.7	656.6	661.9	663.6	642.5	614.5	556.5	500.3	451.2	414.3	423.1
77.5°	356.4	377.5	382.7	388.0	372.2	361.7	323.0	282.7	256.3	217.7	228.2
80°	198.4	207.2	207.2	208.9	200.1	187.8	161.5	138.7	126.4	108.8	110.6
82.5°	119.4	122.9	124.6	126.4	121.1	108.8	89.5	73.7	66.7	57.9	56.2
85°	57.9	61.4	61.4	63.2	54.4	47.4	36.9	28.1	24.6	17.6	19.3
87.5°	14.0	15.8	15.8	14.0	12.3	8.8	5.3	1.8	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)