

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: P640748

Luminaire Tested: GWS-SA5E-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640748
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-SA5E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33039.6 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

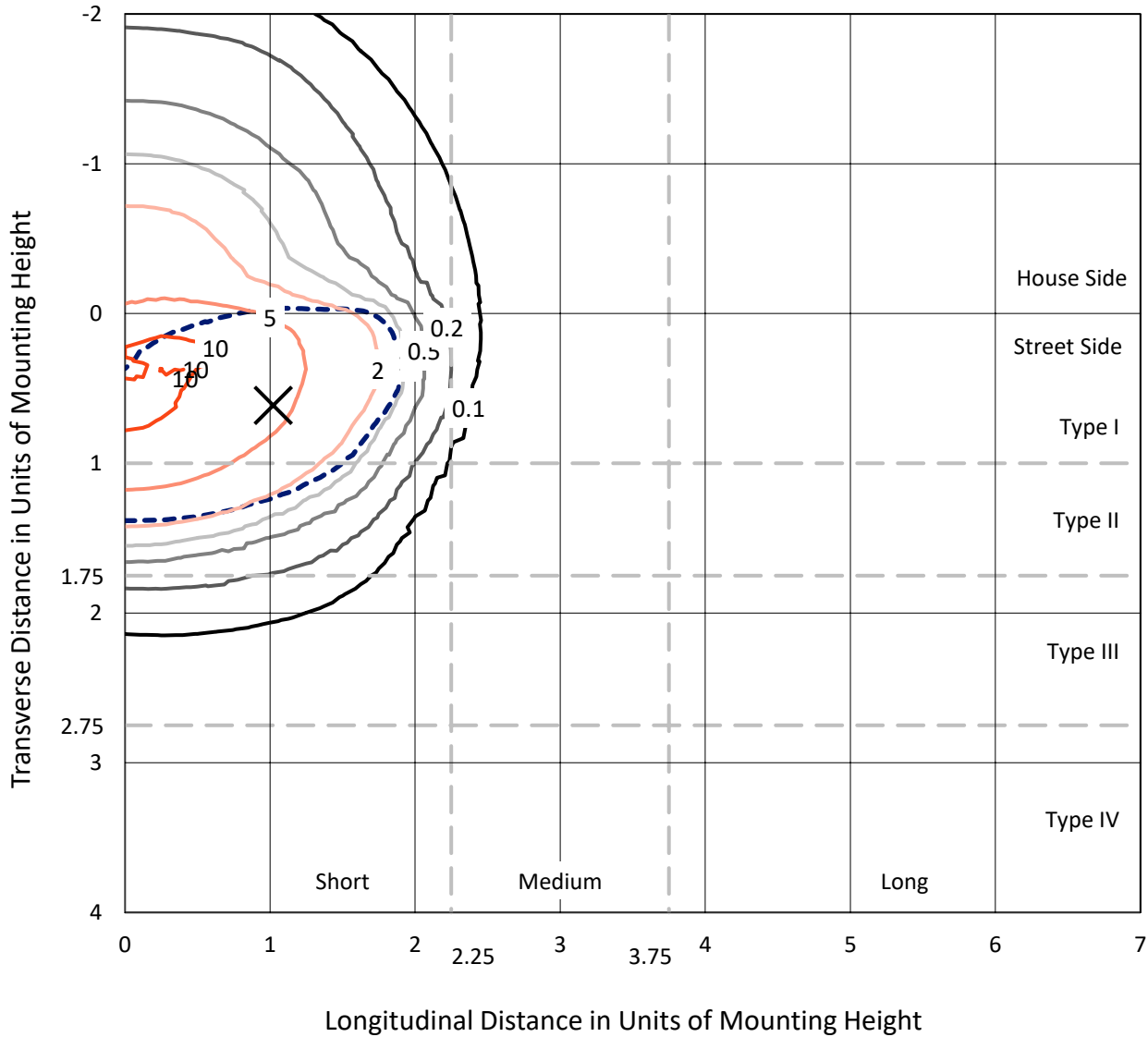
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640748
 CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

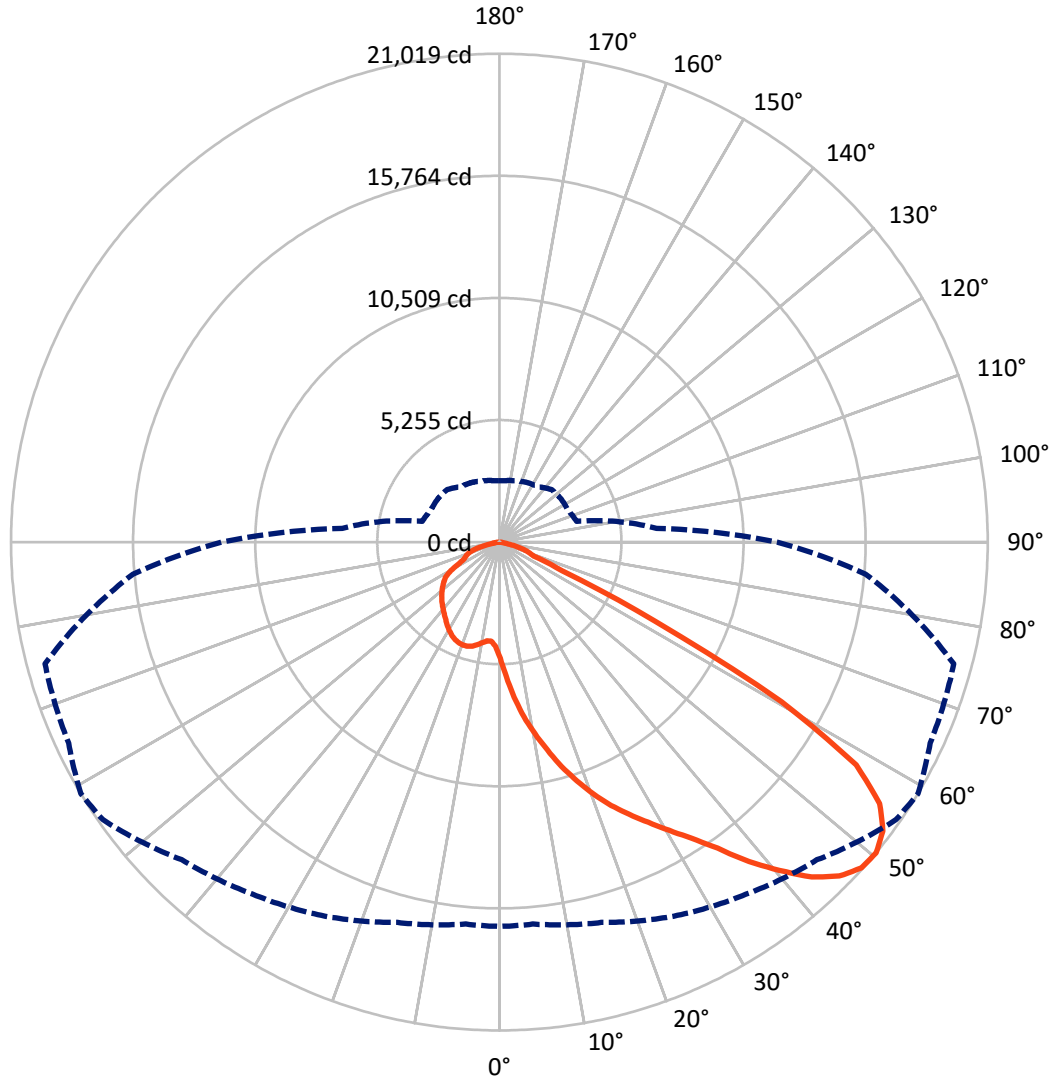
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P640748
CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640748

CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7599.7	0.0	7599.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	25439.9	0.0	25439.9
	% Fixture	77.0	0.0	77.0
Total	Lumens	33039.6	0.0	33039.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	1.7
10°-20°	2038.6	6.2
20°-30°	3860.2	11.7
30°-40°	6401.4	19.4
40°-50°	8744.7	26.5
50°-60°	7937.9	24.0
60°-70°	2643.4	8.0
70°-80°	771.0	2.3
80°-90°	81.0	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°	33039.6	100.0
0°-180°	33039.6	100.0

Coefficient of Utilization



REPORT NUMBER: P640748

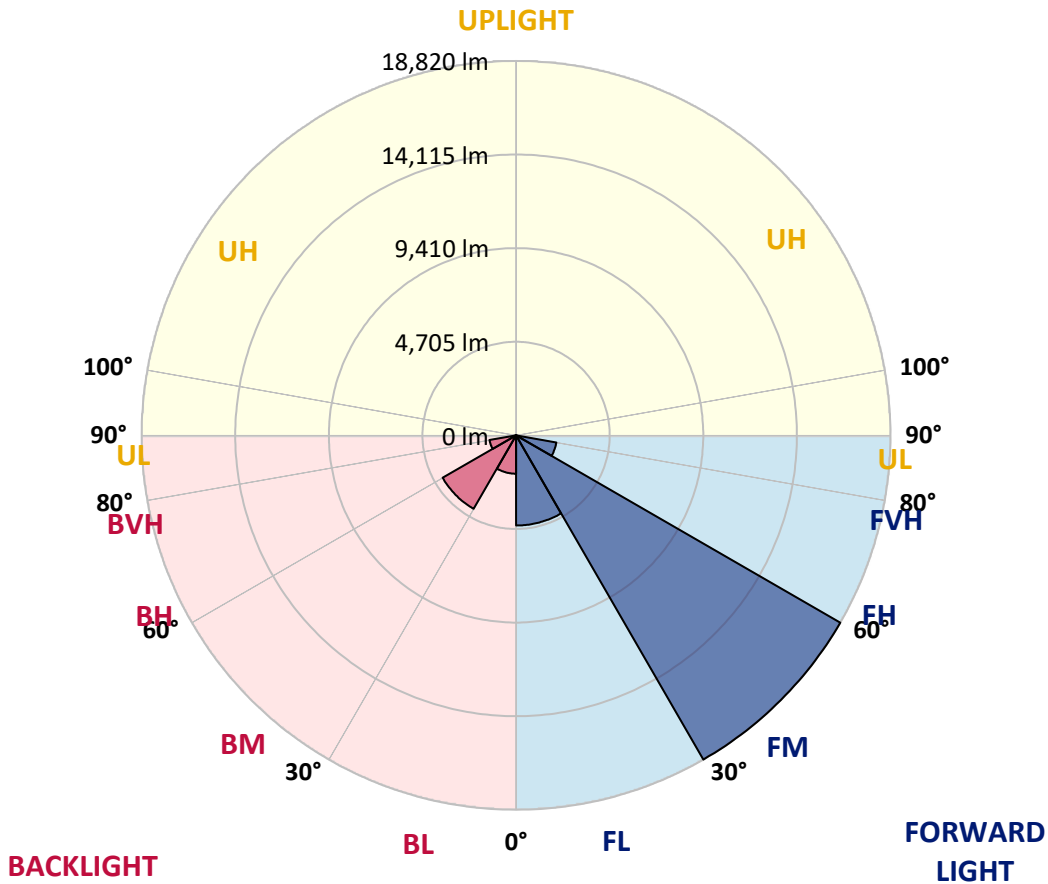
CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4530.5	13.7			
FM (30°-60°)	18819.8	57.0			
FH (60°-80°)	2057.9	6.2			G2/5000
FVH (80°-90°)	31.7	0.1			G1/100
BL (0°-30°)	1929.8	5.8	B3/2500		
BM (30°-60°)	4264.2	12.9	B3/5000		
BH (60°-80°)	1356.5	4.1	B3/2500		G3/2500
BVH (80°-90°)	49.3	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: P640748

CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7
2.5°	6485.9	6534.4	6459.0	6464.4	6276.0	6189.9	5947.7	5805.0	5710.8	5447.1	5207.6
5°	7793.9	7737.4	7678.1	7643.2	7479.0	7247.5	6946.1	6706.6	6485.9	5969.2	5471.3
7.5°	8595.9	8566.3	8525.9	8504.4	8342.9	8100.7	7799.3	7594.7	7274.5	6574.7	5791.6
10°	9276.8	9241.8	9217.5	9233.7	9101.8	8945.7	8617.4	8383.3	8022.6	7215.3	6179.1
12.5°	9804.2	9823.1	9831.2	9917.3	9860.8	9766.6	9427.5	9179.9	8778.9	7890.8	6633.9
15°	10221.4	10216.0	10310.2	10474.4	10565.9	10506.7	10234.8	10027.6	9537.8	8555.5	7123.8
17.5°	10318.3	10323.7	10471.7	10759.6	11058.4	11203.7	11050.3	10802.7	10318.3	9212.2	7632.4
20°	10396.3	10407.1	10560.5	10888.8	11324.8	11731.2	11755.4	11577.8	11160.6	9922.7	8149.1
22.5°	10888.8	10913.0	10953.4	11160.6	11553.6	12067.6	12350.2	12312.5	11962.6	10668.1	8706.2
25°	12183.3	12110.6	11914.2	11855.0	12005.7	12422.8	12904.6	12977.2	12805.0	11489.0	9306.4
27.5°	13781.9	13703.9	13413.2	13106.4	12780.8	12926.1	13440.1	13658.1	13660.8	12393.2	9909.2
30°	15232.5	15170.6	14933.8	14495.1	13932.6	13722.7	14102.2	14395.5	14570.5	13437.4	10595.5
32.5°	16473.2	16416.7	16096.4	15738.5	15189.4	14766.9	14904.2	15186.7	15595.8	14788.4	11448.6
35°	17517.4	17460.9	17154.1	16793.4	16284.8	16031.8	15983.4	16177.1	16707.3	16198.7	12428.2
37.5°	18365.1	18308.6	17988.3	17649.2	17261.7	17277.9	17350.5	17444.7	17748.8	17708.5	13475.1
40°	18914.1	18854.9	18626.2	18384.0	18139.1	18332.8	18693.5	18580.4	18741.9	18927.6	14438.6
42.5°	19159.0	19083.7	18951.8	18898.0	18822.6	19124.1	19818.4	19705.4	19511.6	19740.4	15154.5
45°	18914.1	18849.5	18846.9	19011.0	19186.0	19573.5	20596.2	20504.7	20014.9	20133.3	15582.4
47.5°	18163.3	18106.8	18260.2	18690.8	19121.4	19686.5	20943.3	20959.5	20372.8	20297.4	15859.6
50°	16540.4	16502.8	16946.8	17762.3	18505.1	19334.0	20833.0	21018.7	20458.9	20246.3	15824.6
52.5°	13241.0	13415.9	14382.1	15743.8	17186.4	18715.0	20423.9	20666.1	20044.5	19909.9	15636.2
55°	9064.1	9144.9	10111.0	12099.9	14387.4	17374.7	19484.7	19858.8	19554.7	19853.4	15832.6
57.5°	4693.5	4758.1	5519.8	7285.2	9758.5	13730.8	16876.9	18104.1	18567.0	20138.7	16443.6
60°	1926.9	1980.8	2295.6	3148.8	4922.3	7995.7	12145.6	13964.9	15052.2	18392.0	14602.7
62.5°	1399.5	1426.4	1577.1	1878.5	2578.2	3918.5	6873.5	7543.6	8307.9	11526.6	9271.4
65°	1178.8	1208.4	1329.5	1512.5	1881.2	2403.3	2936.2	2952.3	3253.7	4696.2	3436.7
67.5°	987.7	1014.6	1122.3	1278.3	1520.6	1706.3	1577.1	1579.8	1574.4	1703.6	1647.0
70°	769.7	791.2	898.9	1065.7	1192.2	1095.3	1232.6	1364.5	1307.9	1359.1	1437.1
72.5°	562.5	586.7	680.9	807.4	775.1	780.5	998.5	1133.0	1100.7	1157.2	1229.9
75°	406.4	422.5	471.0	403.7	425.2	514.0	702.4	775.1	807.4	855.8	920.4
77.5°	131.9	131.9	148.0	185.7	231.4	285.3	357.9	387.5	436.0	489.8	535.6
80°	67.3	70.0	83.4	102.3	129.2	164.2	209.9	223.4	247.6	277.2	296.0
82.5°	32.3	35.0	40.4	51.1	67.3	86.1	115.7	129.2	145.3	164.2	177.6
85°	8.1	8.1	10.8	16.1	21.5	32.3	43.1	51.1	64.6	78.0	86.1
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	8.1	10.8	13.5	16.1	21.5
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: P640748

CATALOG NUMBER: GWS-SA5E-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7	5005.7
2.5°	5099.9	4949.2	4755.4	4591.3	4440.6	4324.8	4225.3	4176.8	4131.1	4098.8	4109.5
5°	5239.9	4981.5	4620.9	4370.6	4217.2	4139.1	4085.3	4058.4	4053.0	4031.5	4023.4
7.5°	5444.4	5075.7	4594.0	4341.0	4238.7	4198.4	4168.8	4152.6	4160.7	4139.1	4131.1
10°	5697.4	5231.8	4661.3	4437.9	4349.1	4319.5	4287.2	4265.6	4254.9	4222.6	4217.2
12.5°	6012.3	5425.6	4782.4	4561.7	4472.9	4421.7	4378.7	4341.0	4316.8	4276.4	4265.6
15°	6351.4	5640.9	4925.0	4682.8	4577.8	4502.5	4432.5	4376.0	4332.9	4279.1	4271.0
17.5°	6720.1	5866.9	5043.4	4766.2	4631.6	4532.1	4429.8	4346.4	4287.2	4217.2	4209.1
20°	7104.9	6095.7	5132.2	4806.6	4634.3	4499.8	4362.5	4252.2	4176.8	4106.9	4101.5
22.5°	7503.2	6305.6	5186.0	4795.8	4591.3	4424.4	4260.3	4136.5	4047.6	3964.2	3958.8
25°	7904.2	6507.5	5199.5	4752.8	4505.2	4311.4	4147.2	4001.9	3902.3	3808.1	3797.4
27.5°	8310.6	6677.0	5167.2	4666.6	4389.4	4179.5	4015.4	3872.7	3770.4	3676.3	3660.1
30°	8743.9	6822.3	5097.2	4553.6	4254.9	4039.6	3878.1	3770.4	3673.6	3579.4	3563.2
32.5°	9206.8	6948.8	4997.7	4416.3	4098.8	3899.6	3781.2	3684.3	3587.4	3504.0	3487.9
35°	9758.5	7032.2	4849.6	4238.7	3953.5	3797.4	3716.6	3603.6	3485.2	3393.7	3385.6
37.5°	10329.0	7096.8	4672.0	4069.2	3827.0	3738.2	3670.9	3517.5	3369.5	3259.1	3245.7
40°	10880.7	7150.7	4451.3	3910.4	3711.2	3695.1	3603.6	3412.5	3156.8	3033.0	3022.3
42.5°	11394.8	7166.8	4219.9	3740.8	3606.3	3598.2	3495.9	3199.9	3003.4	2925.4	2914.6
45°	11747.3	7153.4	3980.4	3582.1	3501.3	3458.3	3350.6	3046.5	2925.4	2855.4	2842.0
47.5°	12008.4	7083.4	3711.2	3415.2	3382.9	3323.7	3092.3	2949.6	2836.6	2766.6	2753.2
50°	11962.6	6792.7	3439.4	3253.7	3240.3	3189.1	2903.9	2828.5	2728.9	2653.6	2642.8
52.5°	11725.8	6241.0	3162.2	3076.1	3103.0	3003.4	2769.3	2683.2	2597.1	2510.9	2492.1
55°	11785.0	5842.7	2952.3	2903.9	2952.3	2726.2	2618.6	2527.1	2446.4	2362.9	2346.8
57.5°	12043.4	5449.8	2728.9	2718.2	2769.3	2513.6	2424.8	2309.1	2193.4	2126.1	2126.1
60°	10113.7	3972.3	2336.0	2362.9	2478.6	2341.4	2263.3	2144.9	2018.4	1959.2	1959.2
62.5°	5980.0	2492.1	1937.7	1908.1	1980.8	2066.9	2109.9	2013.1	1862.3	1784.3	1787.0
65°	2634.7	1813.9	1708.9	1684.7	1663.2	1722.4	1840.8	1848.9	1690.1	1598.6	1601.3
67.5°	1622.8	1641.7	1598.6	1579.8	1560.9	1550.2	1539.4	1544.8	1501.7	1418.3	1415.6
70°	1464.0	1515.2	1485.6	1469.4	1445.2	1426.4	1361.8	1256.8	1184.2	1162.6	1186.8
72.5°	1259.5	1329.5	1313.3	1305.3	1275.7	1229.9	1143.8	1041.5	955.4	901.6	912.3
75°	950.0	1006.5	1014.6	1017.3	985.0	941.9	853.1	767.0	691.7	635.1	648.6
77.5°	546.3	578.6	586.7	594.8	570.5	554.4	495.2	433.3	392.9	333.7	349.9
80°	304.1	317.6	317.6	320.3	306.8	288.0	247.6	212.6	193.8	166.9	169.5
82.5°	183.0	188.4	191.1	193.8	185.7	166.9	137.3	113.0	102.3	88.8	86.1
85°	88.8	94.2	94.2	96.9	83.4	72.7	56.5	43.1	37.7	26.9	29.6
87.5°	21.5	24.2	24.2	21.5	18.8	13.5	8.1	2.7	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)