

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: P640693

Luminaire Tested: GWS-SA5E-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640693
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32586.8 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

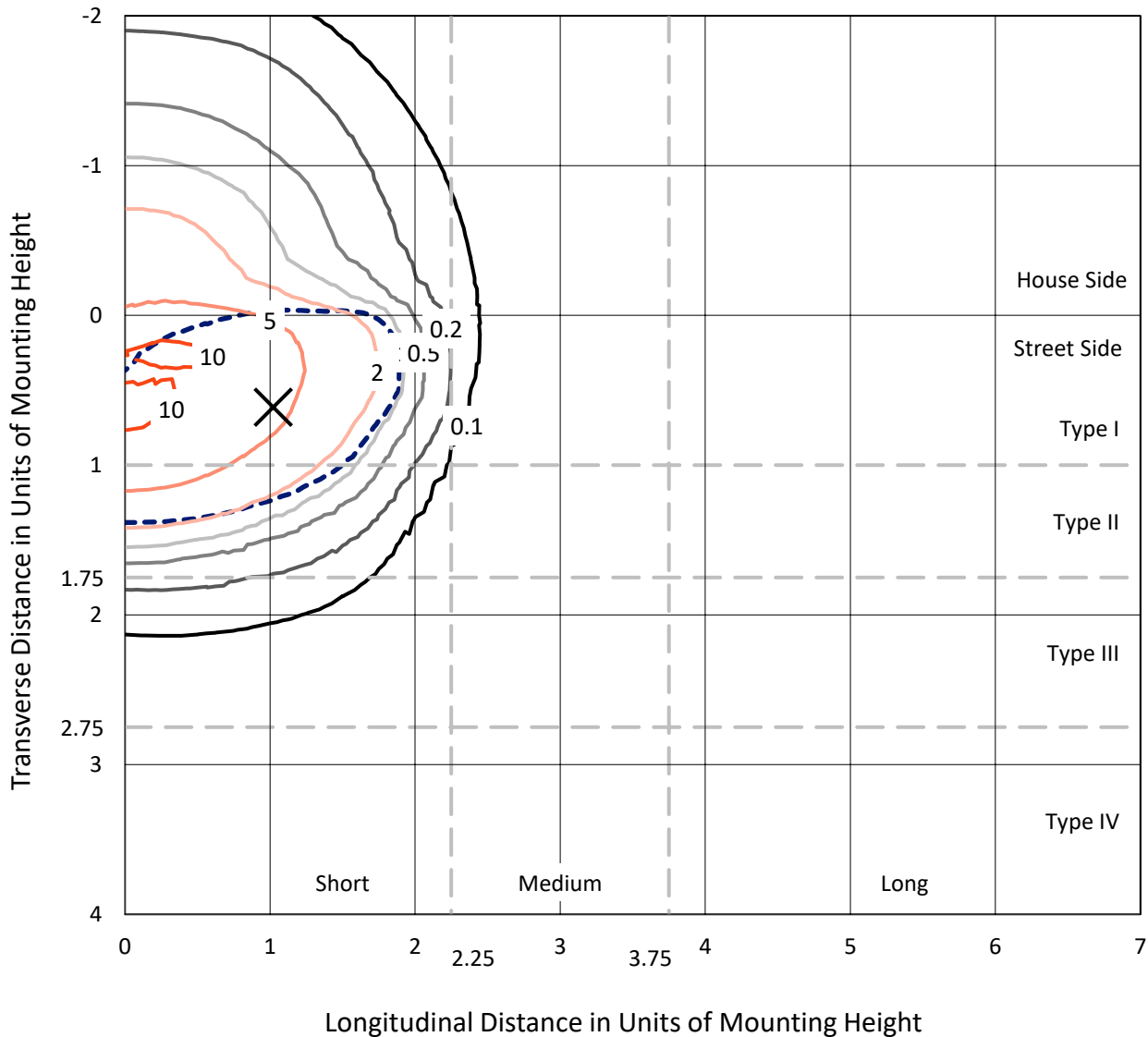
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640693
 CATALOG NUMBER: GWS-SA5E-735-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

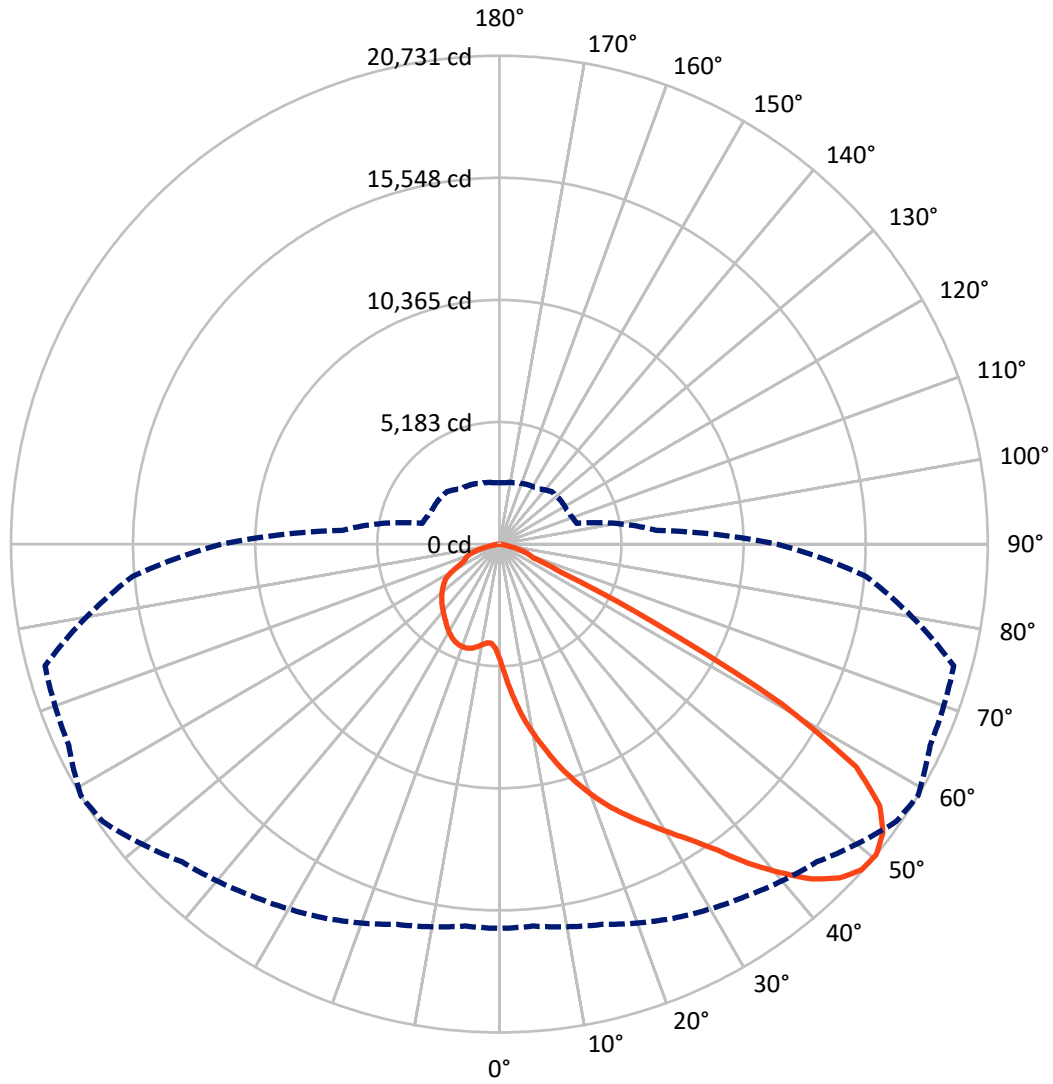
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

REPORT NUMBER: P640693
CATALOG NUMBER: GWS-SA5E-735-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA5E-735-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7495.6	0.0	7495.6
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	25091.2	0.0	25091.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	32586.8	0.0	32586.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.9	1.7
10°-20°	2010.6	6.2
20°-30°	3807.3	11.7
30°-40°	6313.7	19.4
40°-50°	8624.8	26.5
50°-60°	7829.1	24.0
60°-70°	2607.2	8.0
70°-80°	760.4	2.3
80°-90°	79.9	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°	32586.8	100.0
0°-180°	32586.8	100.0

Coefficient of Utilization



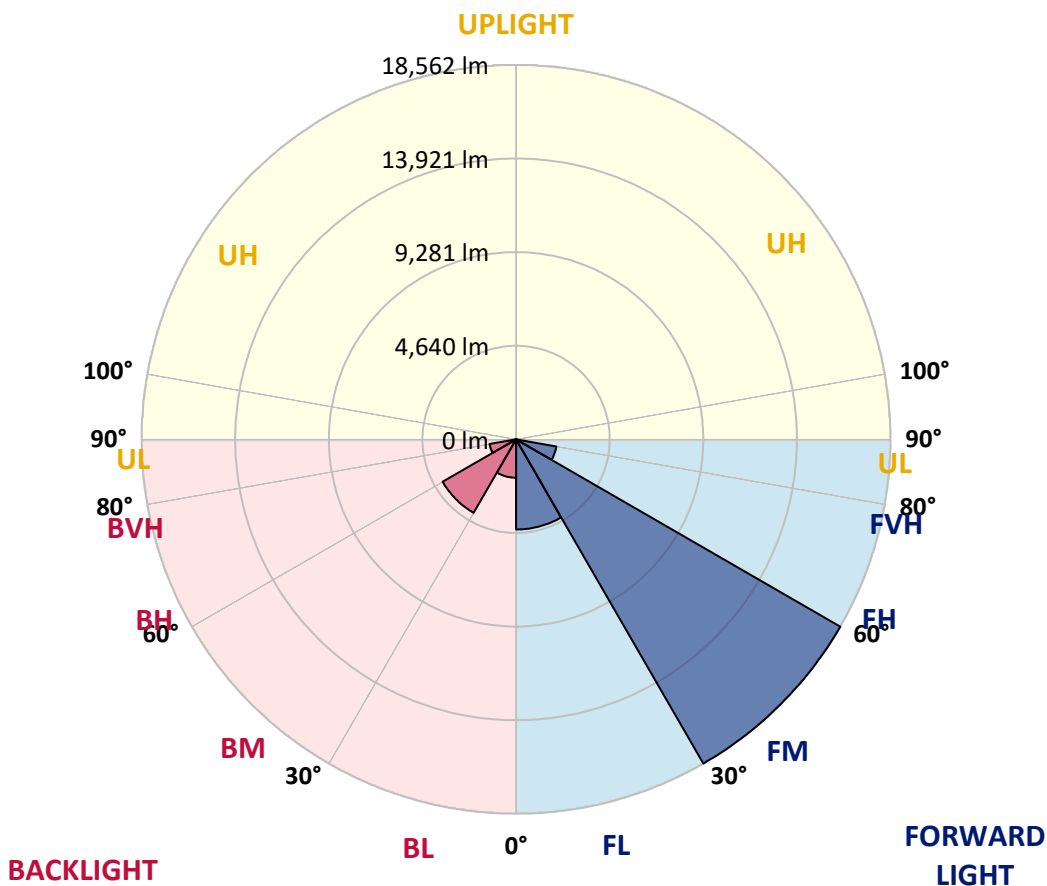
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4468.4	13.7			
FM (30°-60°)	18561.9	57.0			
FH (60°-80°)	2029.7	6.2			G2/5000
FVH (80°-90°)	31.2	0.1			G1/100
BL (0°-30°)	1903.3	5.8	B3/2500		
BM (30°-60°)	4205.8	12.9	B3/5000		
BH (60°-80°)	1337.9	4.1	B3/2500		G3/2500
BVH (80°-90°)	48.6	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: P640693

CATALOG NUMBER: GWS-SA5E-735-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1
2.5°	6397.0	6444.8	6370.5	6375.8	6190.0	6105.1	5866.2	5725.5	5632.6	5372.4	5136.2
5°	7687.1	7631.3	7572.9	7538.4	7376.5	7148.2	6850.9	6614.7	6397.0	5887.4	5396.3
7.5°	8478.1	8448.9	8409.0	8387.8	8228.6	7989.7	7692.4	7490.6	7174.8	6484.6	5712.2
10°	9149.6	9115.1	9091.2	9107.1	8977.1	8823.1	8499.3	8268.4	7912.7	7116.4	6094.4
12.5°	9669.9	9688.5	9696.4	9781.4	9725.6	9632.7	9298.3	9054.1	8658.6	7782.6	6543.0
15°	10081.3	10076.0	10168.9	10330.8	10421.1	10362.7	10094.6	9890.2	9407.1	8438.2	7026.1
17.5°	10176.9	10182.2	10328.2	10612.2	10906.8	11050.1	10898.8	10654.6	10176.9	9085.9	7527.8
20°	10253.8	10264.5	10415.8	10739.6	11169.6	11570.4	11594.3	11419.1	11007.7	9786.7	8037.4
22.5°	10739.6	10763.5	10803.3	11007.7	11395.2	11902.2	12180.9	12143.7	11798.7	10521.9	8586.9
25°	12016.3	11944.7	11750.9	11692.5	11841.2	12252.6	12727.7	12799.4	12629.5	11331.5	9178.8
27.5°	13593.0	13516.1	13229.4	12926.8	12605.6	12748.9	13255.9	13470.9	13473.6	12223.4	9773.4
30°	15023.7	14962.7	14729.1	14296.4	13741.7	13534.6	13908.9	14198.2	14370.8	13253.3	10450.3
32.5°	16247.4	16191.7	15875.8	15522.8	14981.3	14564.5	14699.9	14978.6	15382.1	14585.8	11291.7
35°	17277.3	17221.6	16919.0	16563.3	16061.6	15812.1	15764.3	15955.4	16478.3	15976.7	12257.9
37.5°	18113.4	18057.7	17741.8	17407.4	17025.1	17041.1	17112.7	17205.6	17505.6	17465.8	13290.4
40°	18654.9	18596.5	18370.9	18132.0	17890.5	18081.6	18437.3	18325.8	18485.0	18668.2	14240.7
42.5°	18896.5	18822.1	18692.1	18639.0	18564.7	18862.0	19546.8	19435.3	19244.2	19469.8	14946.8
45°	18654.9	18591.2	18588.6	18750.5	18923.0	19305.2	20313.9	20223.7	19740.6	19857.4	15368.8
47.5°	17914.4	17858.6	18009.9	18434.6	18859.3	19416.7	20656.3	20672.2	20093.6	20019.3	15642.2
50°	16313.8	16276.6	16714.6	17518.9	18251.5	19069.0	20547.5	20730.6	20178.5	19968.8	15607.7
52.5°	13059.5	13232.0	14185.0	15528.1	16950.8	18458.5	20144.0	20382.9	19769.8	19637.0	15421.9
55°	8939.9	9019.6	9972.5	11934.1	14190.3	17136.6	19217.6	19586.6	19286.7	19581.3	15615.7
57.5°	4629.2	4692.9	5444.1	7185.4	9624.8	13542.6	16645.6	17856.0	18312.5	19862.7	16218.2
60°	1900.5	1953.6	2264.2	3105.6	4854.8	7886.1	11979.2	13773.5	14845.9	18140.0	14402.6
62.5°	1380.3	1406.8	1555.5	1852.8	2542.9	3864.8	6779.3	7440.2	8194.0	11368.7	9144.3
65°	1162.6	1191.8	1311.3	1491.8	1855.4	2370.4	2895.9	2911.8	3209.1	4631.9	3389.6
67.5°	974.2	1000.7	1106.9	1260.8	1499.7	1682.9	1555.5	1558.1	1552.8	1680.2	1624.5
70°	759.2	780.4	886.6	1051.1	1175.9	1080.3	1215.7	1345.8	1290.0	1340.5	1417.4
72.5°	554.8	578.7	671.6	796.3	764.5	769.8	984.8	1117.5	1085.6	1141.4	1213.0
75°	400.8	416.7	464.5	398.2	419.4	507.0	692.8	764.5	796.3	844.1	907.8
77.5°	130.1	130.1	146.0	183.2	228.3	281.4	353.0	382.2	430.0	483.1	528.2
80°	66.4	69.0	82.3	100.9	127.4	161.9	207.0	220.3	244.2	273.4	292.0
82.5°	31.9	34.5	39.8	50.4	66.4	84.9	114.1	127.4	143.3	161.9	175.2
85°	8.0	8.0	10.6	15.9	21.2	31.9	42.5	50.4	63.7	77.0	84.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.7	8.0	10.6	13.3	15.9	21.2
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: P640693

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1	4937.1
2.5°	5030.0	4881.4	4690.3	4528.4	4379.7	4265.6	4167.4	4119.6	4074.5	4042.6	4053.2
5°	5168.1	4913.2	4557.6	4310.7	4159.4	4082.4	4029.3	4002.8	3997.5	3976.2	3968.3
7.5°	5369.8	5006.1	4531.0	4281.5	4180.6	4140.8	4111.6	4095.7	4103.7	4082.4	4074.5
10°	5619.3	5160.1	4597.4	4377.1	4289.5	4260.3	4228.4	4207.2	4196.6	4164.7	4159.4
12.5°	5929.9	5351.2	4716.8	4499.2	4411.6	4361.1	4318.7	4281.5	4257.6	4217.8	4207.2
15°	6264.3	5563.6	4857.5	4618.6	4515.1	4440.8	4371.7	4316.0	4273.5	4220.5	4212.5
17.5°	6628.0	5786.5	4974.3	4700.9	4568.2	4470.0	4369.1	4286.8	4228.4	4159.4	4151.4
20°	7007.5	6012.2	5061.9	4740.7	4570.8	4438.1	4302.7	4193.9	4119.6	4050.6	4045.3
22.5°	7400.4	6219.2	5115.0	4730.1	4528.4	4363.8	4201.9	4079.8	3992.2	3909.9	3904.6
25°	7795.9	6418.3	5128.2	4687.6	4443.4	4252.3	4090.4	3947.1	3848.8	3755.9	3745.3
27.5°	8196.7	6585.5	5096.4	4602.7	4329.3	4122.2	3960.3	3819.6	3718.8	3625.9	3609.9
30°	8624.1	6728.8	5027.4	4491.2	4196.6	3984.2	3824.9	3718.8	3623.2	3530.3	3514.4
32.5°	9080.6	6853.6	4929.2	4355.8	4042.6	3846.2	3729.4	3633.8	3538.3	3456.0	3440.1
35°	9624.8	6935.9	4783.2	4180.6	3899.3	3745.3	3665.7	3554.2	3437.4	3347.2	3339.2
37.5°	10187.5	6999.6	4608.0	4013.4	3774.5	3686.9	3620.6	3469.3	3323.3	3214.4	3201.2
40°	10731.6	7052.7	4390.3	3856.8	3660.4	3644.5	3554.2	3365.7	3113.6	2991.5	2980.9
42.5°	11238.6	7068.6	4162.1	3689.6	3556.9	3548.9	3448.0	3156.0	2962.3	2885.3	2874.7
45°	11586.3	7055.3	3925.8	3533.0	3453.3	3410.9	3304.7	3004.7	2885.3	2816.3	2803.0
47.5°	11843.8	6986.3	3660.4	3368.4	3336.5	3278.1	3049.9	2909.2	2797.7	2728.7	2715.4
50°	11798.7	6699.6	3392.3	3209.1	3195.9	3145.4	2864.1	2789.7	2691.5	2617.2	2606.6
52.5°	11565.1	6155.5	3118.9	3033.9	3060.5	2962.3	2731.3	2646.4	2561.5	2476.5	2457.9
55°	11623.5	5762.6	2911.8	2864.1	2911.8	2688.9	2582.7	2492.5	2412.8	2330.5	2314.6
57.5°	11878.3	5375.1	2691.5	2680.9	2731.3	2479.2	2391.6	2277.5	2163.3	2097.0	2097.0
60°	9975.1	3917.9	2304.0	2330.5	2444.7	2309.3	2232.3	2115.5	1990.8	1932.4	1932.4
62.5°	5898.0	2457.9	1911.1	1881.9	1953.6	2038.6	2081.0	1985.5	1836.8	1759.8	1762.5
65°	2598.6	1789.0	1685.5	1661.6	1640.4	1698.8	1815.6	1823.6	1666.9	1576.7	1579.4
67.5°	1600.6	1619.2	1576.7	1558.1	1539.5	1528.9	1518.3	1523.6	1481.1	1398.9	1396.2
70°	1444.0	1494.4	1465.2	1449.3	1425.4	1406.8	1343.1	1239.6	1167.9	1146.7	1170.6
72.5°	1242.2	1311.3	1295.3	1287.4	1258.2	1213.0	1128.1	1027.2	942.3	889.2	899.8
75°	937.0	992.7	1000.7	1003.4	971.5	929.0	841.4	756.5	682.2	626.4	639.7
77.5°	538.8	570.7	578.7	586.6	562.7	546.8	488.4	427.4	387.5	329.1	345.1
80°	299.9	313.2	313.2	315.9	302.6	284.0	244.2	209.7	191.1	164.6	167.2
82.5°	180.5	185.8	188.5	191.1	183.2	164.6	135.4	111.5	100.9	87.6	84.9
85°	87.6	92.9	92.9	95.6	82.3	71.7	55.7	42.5	37.2	26.5	29.2
87.5°	21.2	23.9	23.9	21.2	18.6	13.3	8.0	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)