

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: P640689

Luminaire Tested: GWS-SA5E-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30869.5 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

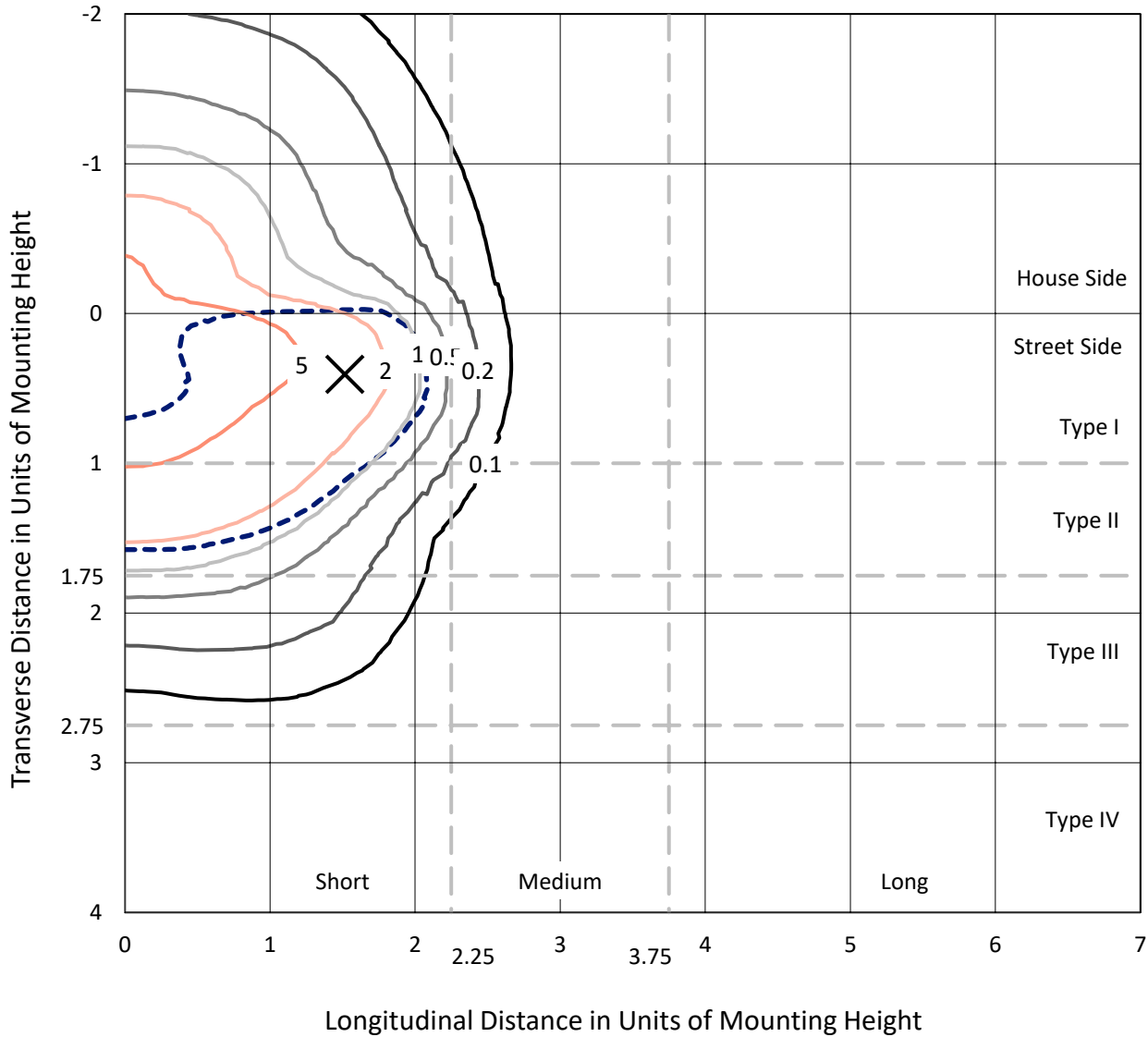
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

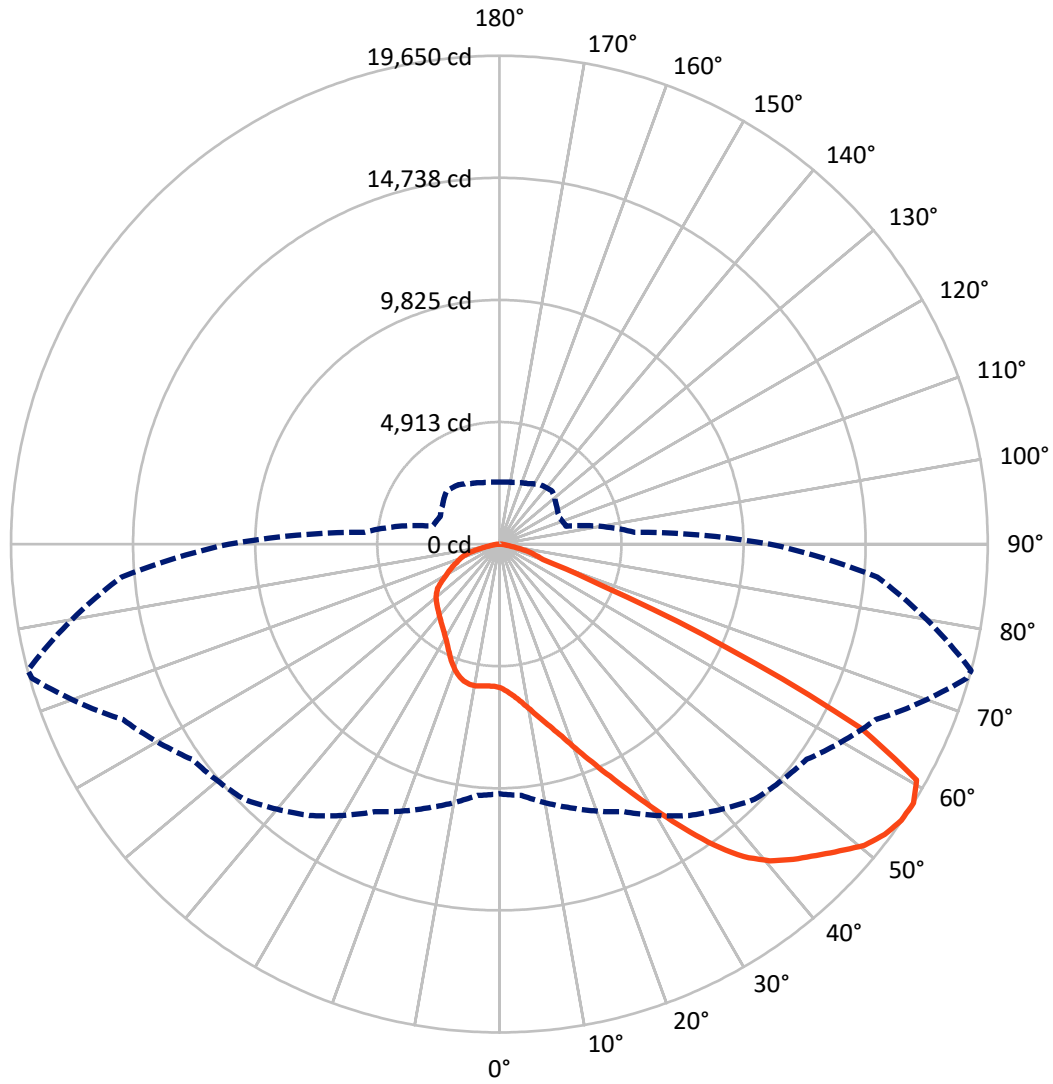
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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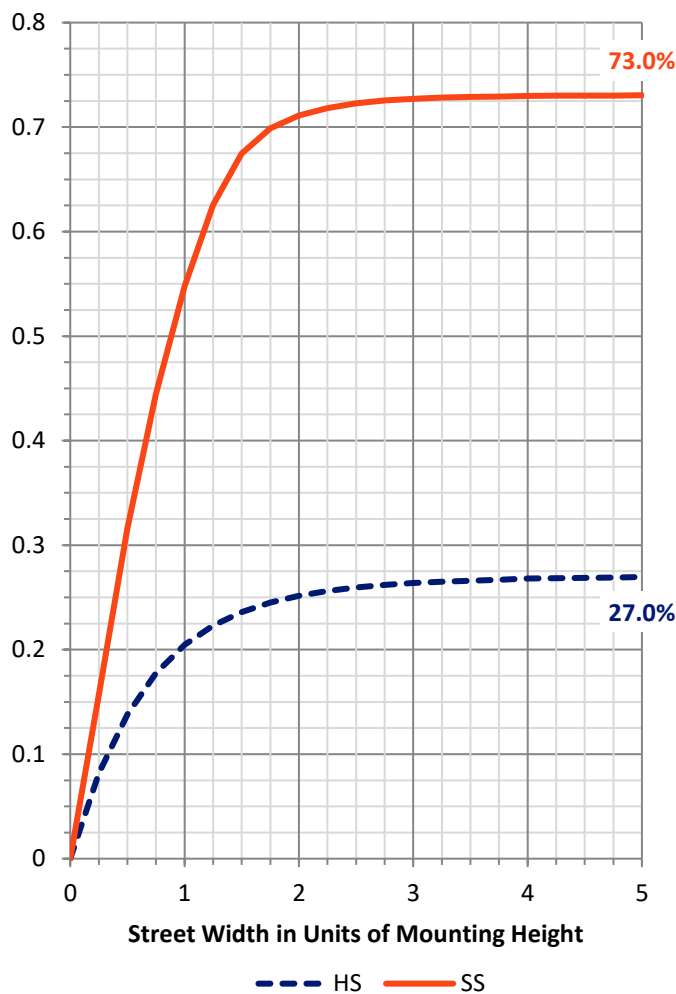
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8350.8	0.0	8350.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	22518.7	0.0	22518.7
	% Fixture	72.9	0.0	72.9
Total	Lumens	30869.5	0.0	30869.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.5	1.9
10°-20°	1841.9	6.0
20°-30°	3266.5	10.6
30°-40°	5000.5	16.2
40°-50°	6962.7	22.6
50°-60°	7977.9	25.8
60°-70°	4099.2	13.3
70°-80°	1032.0	3.3
80°-90°	110.3	0.4
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°	30869.5	100.0
0°-180°	30869.5	100.0

Coefficient of Utilization



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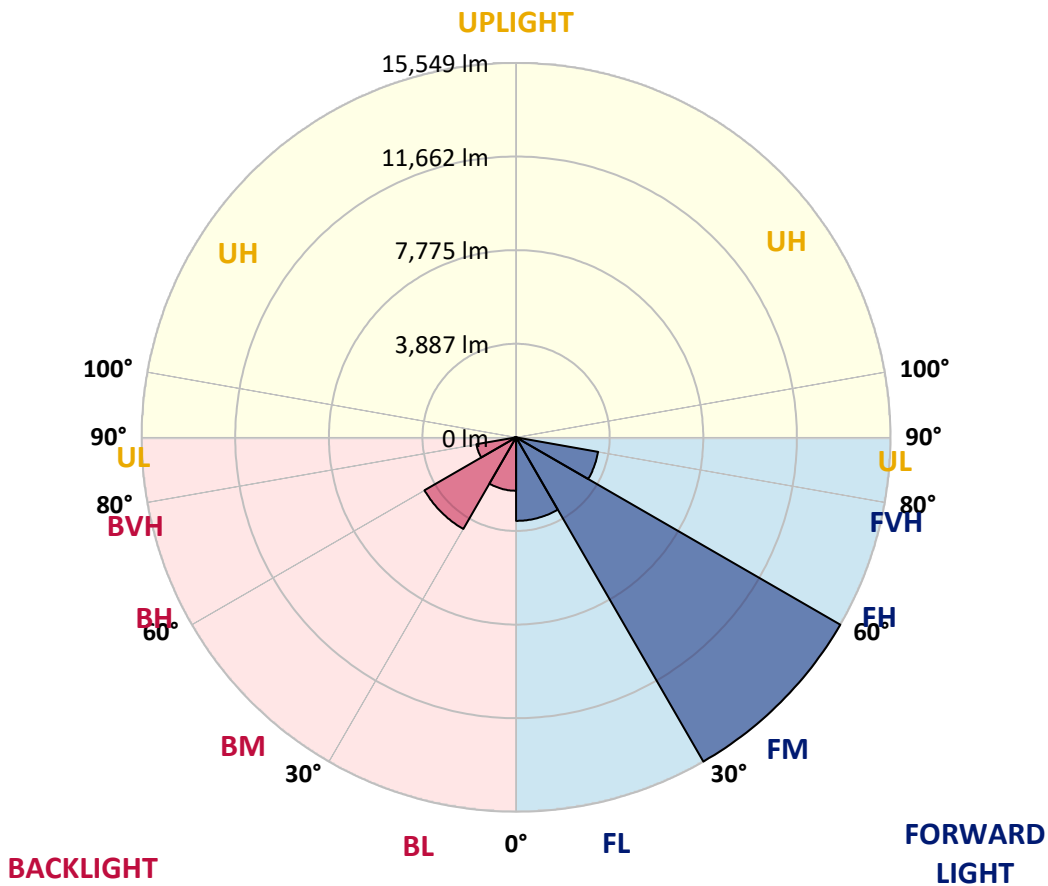
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3468.4	11.2			
FM (30°-60°)	15549.3	50.4			
FH (60°-80°)	3460.2	11.2			G2/5000
FVH (80°-90°)	40.8	0.1			G1/100
BL (0°-30°)	2218.5	7.2	B3/2500		
BM (30°-60°)	4391.8	14.2	B3/5000		
BH (60°-80°)	1671.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.5	0.2			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1
2.5°	6211.1	6227.0	6211.1	6237.7	6184.6	6160.7	6102.3	6014.7	5945.7	5935.1	5858.1
5°	6694.2	6728.7	6707.5	6696.9	6625.2	6572.1	6484.5	6309.3	6166.0	6144.8	5993.5
7.5°	7004.8	7028.6	7028.6	7036.6	7010.1	6949.0	6856.1	6649.1	6447.4	6415.5	6187.2
10°	7108.3	7126.9	7161.4	7227.7	7280.8	7299.4	7238.3	7039.3	6792.4	6760.6	6442.0
12.5°	7132.2	7153.4	7206.5	7328.6	7474.6	7607.3	7617.9	7471.9	7195.9	7161.4	6736.7
15°	7177.3	7198.5	7270.2	7421.5	7636.5	7891.3	8047.9	7947.0	7641.8	7604.6	7071.1
17.5°	7172.0	7195.9	7302.0	7503.8	7793.1	8162.0	8464.6	8507.1	8191.2	8127.5	7450.7
20°	7158.7	7179.9	7294.1	7540.9	7899.3	8406.2	8953.0	9173.3	8833.6	8775.2	7894.0
22.5°	7264.9	7288.8	7376.4	7580.7	7955.0	8594.7	9404.3	9935.1	9595.4	9513.1	8403.6
25°	7503.8	7538.3	7591.4	7732.0	8055.9	8761.9	9866.1	10797.8	10450.1	10351.9	8958.3
27.5°	7872.7	7915.2	7989.5	8055.9	8281.5	8974.3	10325.3	11764.0	11416.2	11312.7	9544.9
30°	8324.0	8379.7	8475.3	8520.4	8674.3	9287.5	10824.3	12759.3	12557.6	12414.3	10205.9
32.5°	8947.7	9024.7	9114.9	9128.2	9221.1	9762.6	11318.0	13746.7	13744.1	13643.2	10957.0
35°	9759.9	9842.2	9860.8	9879.4	9924.5	10415.6	11915.3	14646.6	14994.3	14877.5	11774.6
37.5°	10646.5	10765.9	10795.1	10712.8	10776.6	11201.2	12586.8	15368.5	16082.5	15957.8	12565.6
40°	11594.1	11641.9	11721.5	11591.4	11671.1	12101.1	13245.1	15830.4	16894.8	16762.1	13189.3
42.5°	12273.6	12361.2	12480.6	12432.9	12478.0	12870.8	13706.9	16053.3	17473.4	17340.7	13637.9
45°	13011.5	13038.0	13115.0	13104.4	13130.9	13497.2	14038.7	16151.6	17991.0	17871.6	14020.1
47.5°	13653.8	13693.7	13744.1	13685.7	13627.3	13866.2	14309.5	16236.5	18588.2	18444.9	14420.9
50°	14272.3	14306.8	14367.9	14198.0	13980.3	14041.4	14442.2	16353.3	19148.3	19047.4	14736.8
52.5°	14386.4	14423.6	14710.3	14744.8	14466.1	14251.1	14675.8	16610.8	19477.4	19413.7	14850.9
55°	12950.4	13016.8	13587.5	14243.1	14930.6	14861.6	15050.0	16746.1	19607.5	19623.4	15055.3
57.5°	10051.9	10147.5	10980.9	11880.8	13327.4	14524.5	15097.8	16711.6	19562.4	19650.0	15265.0
60°	6593.3	6649.1	7636.5	8645.1	10144.8	11801.1	13513.2	16090.5	19161.6	19286.3	15211.9
62.5°	3981.5	4045.2	4838.8	5603.3	6487.2	7594.0	9165.4	12931.9	16061.3	16340.0	12183.3
65°	2779.1	2864.0	3559.4	4188.5	4493.8	4265.5	4642.4	7222.4	10006.8	10123.6	7445.4
67.5°	2014.6	2073.0	2643.7	3392.2	3729.3	3012.7	2296.0	3198.5	4358.4	4400.9	3071.1
70°	1319.2	1385.6	1903.1	2582.7	3044.5	2442.0	1717.3	1730.6	1834.1	1855.4	1783.7
72.5°	724.6	764.4	1175.9	1714.7	1799.6	1459.9	1340.4	1438.6	1510.3	1510.3	1528.9
75°	374.3	408.8	480.4	565.4	682.2	799.0	966.2	1112.2	1189.1	1194.4	1186.5
77.5°	191.1	204.4	257.5	278.7	305.2	355.7	461.9	591.9	660.9	687.5	682.2
80°	90.2	95.6	108.8	127.4	156.6	199.1	249.5	297.3	339.8	345.1	374.3
82.5°	47.8	53.1	58.4	69.0	84.9	106.2	146.0	175.2	201.7	207.0	230.9
85°	18.6	21.2	23.9	26.5	37.2	45.1	61.0	82.3	100.9	100.9	119.4
87.5°	0.0	0.0	0.0	0.0	2.7	5.3	10.6	13.3	18.6	18.6	31.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1	5781.1
2.5°	5839.5	5762.5	5728.0	5672.3	5627.2	5576.7	5536.9	5507.7	5489.1	5478.5	5467.9
5°	5935.1	5818.3	5725.4	5613.9	5536.9	5462.6	5401.5	5359.1	5337.8	5321.9	5311.3
7.5°	6083.7	5927.1	5751.9	5579.4	5444.0	5324.6	5247.6	5202.5	5173.3	5162.7	5154.7
10°	6288.1	6070.4	5781.1	5507.7	5306.0	5175.9	5122.8	5101.6	5104.3	5099.0	5096.3
12.5°	6519.0	6221.7	5773.2	5380.3	5157.4	5080.4	5083.0	5117.5	5157.4	5168.0	5170.6
15°	6768.5	6370.4	5696.2	5215.7	5040.6	5048.5	5117.5	5199.8	5274.1	5303.3	5308.6
17.5°	7039.3	6495.1	5555.5	5035.3	4945.0	5029.9	5157.4	5292.7	5401.5	5449.3	5462.6
20°	7341.9	6601.3	5356.4	4857.4	4854.8	4995.4	5181.2	5359.1	5497.1	5560.8	5571.4
22.5°	7663.0	6667.7	5112.2	4692.8	4761.9	4950.3	5162.7	5348.5	5494.4	5558.2	5571.4
25°	7986.9	6688.9	4844.1	4541.5	4666.3	4878.6	5072.4	5221.1	5359.1	5414.8	5425.4
27.5°	8289.5	6627.8	4589.3	4411.5	4578.7	4772.5	4902.5	4982.2	5077.7	5120.2	5128.2
30°	8597.4	6505.7	4374.3	4308.0	4480.5	4626.5	4684.9	4690.2	4727.3	4727.3	4732.7
32.5°	8907.9	6325.3	4185.9	4207.1	4358.4	4454.0	4461.9	4400.9	4355.7	4281.4	4278.8
35°	9266.2	6142.1	4031.9	4093.0	4215.1	4273.5	4249.6	4132.8	4024.0	3901.9	3896.5
37.5°	9598.0	5953.6	3901.9	3976.2	4053.2	4095.6	4039.9	3899.2	3809.0	3684.2	3665.6
40°	9871.4	5783.8	3777.1	3854.1	3891.2	3928.4	3838.2	3724.0	3737.3	3668.3	3665.6
42.5°	10030.7	5619.2	3660.3	3718.7	3742.6	3769.1	3689.5	3604.6	3676.2	3623.2	3625.8
45°	10147.5	5475.9	3554.1	3575.4	3633.8	3673.6	3599.3	3503.7	3519.6	3315.2	3267.5
47.5°	10280.2	5396.2	3453.3	3432.0	3535.6	3604.6	3490.4	3352.4	3256.9	3055.1	3036.5
50°	10420.9	5367.0	3347.1	3288.7	3413.5	3479.8	3347.1	3174.6	3049.8	2941.0	2930.4
52.5°	10468.7	5364.4	3214.4	3116.2	3240.9	3333.8	3222.3	3047.2	2898.5	2792.3	2787.0
55°	10657.1	5441.4	3044.5	2879.9	2996.7	3187.8	3105.6	2853.4	2734.0	2686.2	2680.9
57.5°	10877.4	5454.6	2776.4	2622.5	2784.4	3010.0	2906.5	2688.8	2558.8	2500.4	2495.1
60°	10787.2	5128.2	2489.8	2426.1	2603.9	2842.8	2747.2	2558.8	2407.5	2351.7	2346.4
62.5°	8220.4	3620.5	2280.1	2256.2	2410.1	2601.2	2582.7	2386.2	2242.9	2203.1	2197.8
65°	4945.0	2542.8	2078.3	2075.7	2184.5	2367.7	2391.5	2232.3	2081.0	2025.2	2025.2
67.5°	2444.6	1945.6	1850.1	1836.8	1905.8	2035.9	2136.7	2006.7	1879.3	1826.2	1818.2
70°	1728.0	1714.7	1682.8	1645.7	1659.0	1712.0	1754.5	1645.7	1510.3	1457.2	1446.6
72.5°	1494.4	1497.0	1475.8	1446.6	1436.0	1398.8	1361.7	1282.0	1199.8	1144.0	1149.3
75°	1159.9	1165.2	1178.5	1167.9	1138.7	1098.9	1059.1	958.2	891.9	838.8	828.1
77.5°	676.9	703.4	745.9	735.2	740.6	684.8	668.9	570.7	509.6	472.5	464.5
80°	382.2	398.1	416.7	430.0	414.1	390.2	355.7	302.6	284.0	257.5	252.2
82.5°	230.9	246.9	254.8	265.4	260.1	228.3	201.7	167.2	151.3	138.0	135.4
85°	116.8	127.4	135.4	140.7	124.8	103.5	92.9	74.3	63.7	55.7	55.7
87.5°	29.2	31.9	37.2	31.9	29.2	13.3	10.6	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)