

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: P639381

Luminaire Tested: GWS-SA5B-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 15705.6 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

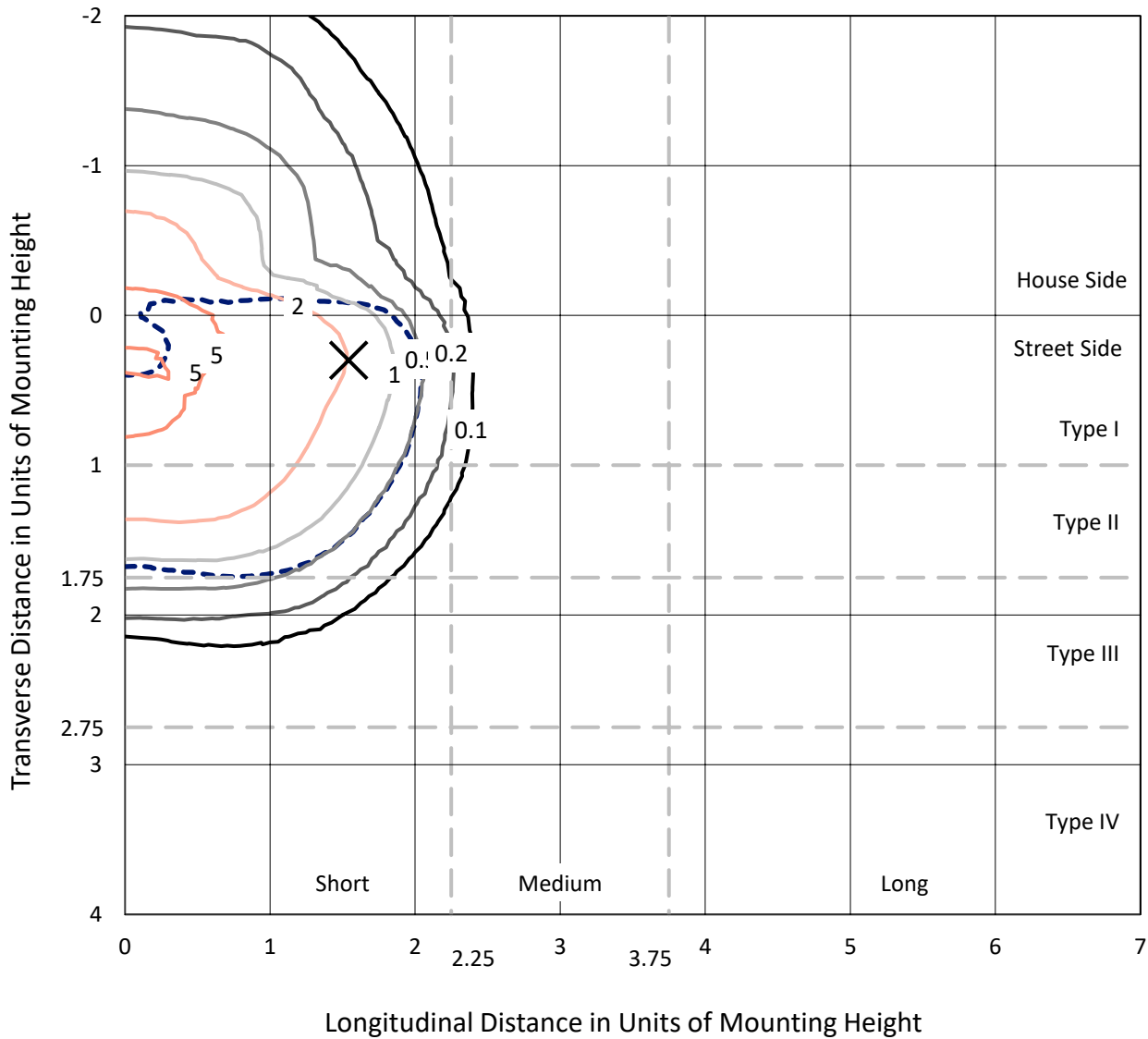
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

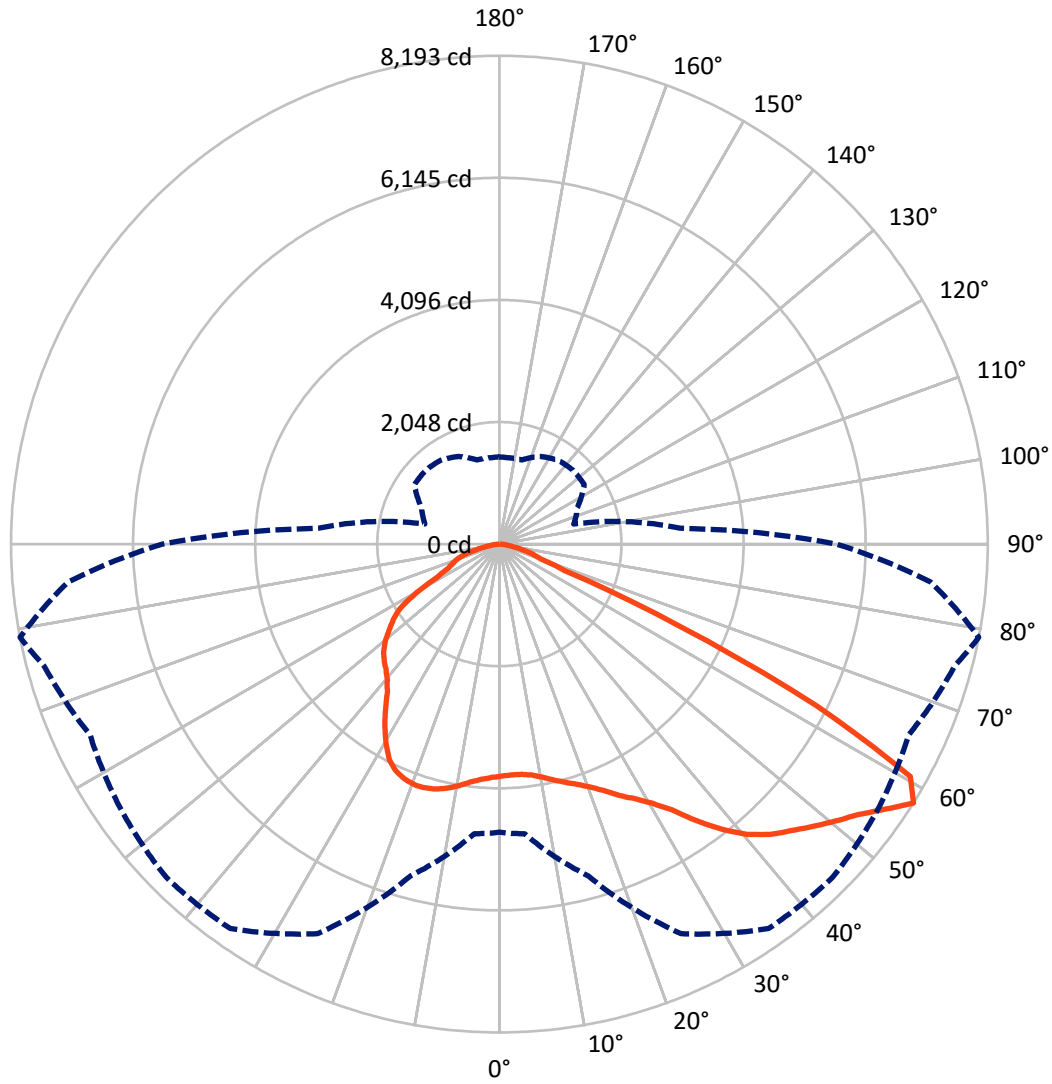
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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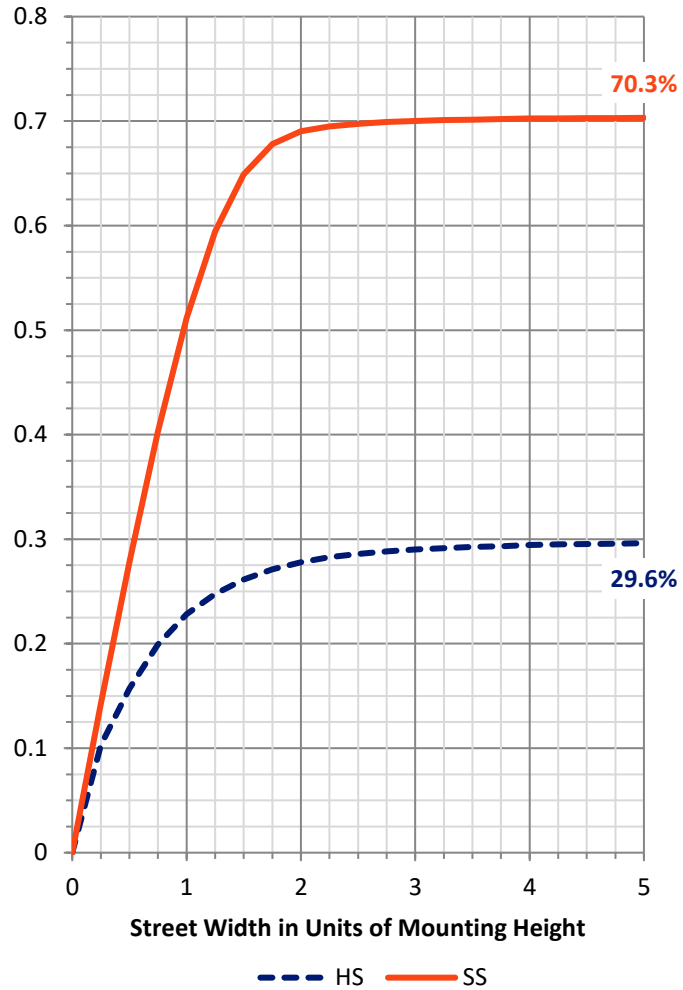
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4668.6	0.0	4668.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	11037.1	0.0	11037.1
	% Fixture	70.3	0.0	70.3
Total	Lumens	15705.6	0.0	15705.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.5	2.3
10°-20°	1001.7	6.4
20°-30°	1697.9	10.8
30°-40°	2598.9	16.5
40°-50°	3465.4	22.1
50°-60°	4002.2	25.5
60°-70°	2079.7	13.2
70°-80°	442.1	2.8
80°-90°	57.3	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°	15705.6	100.0
0°-180°	15705.6	100.0

Coefficient of Utilization



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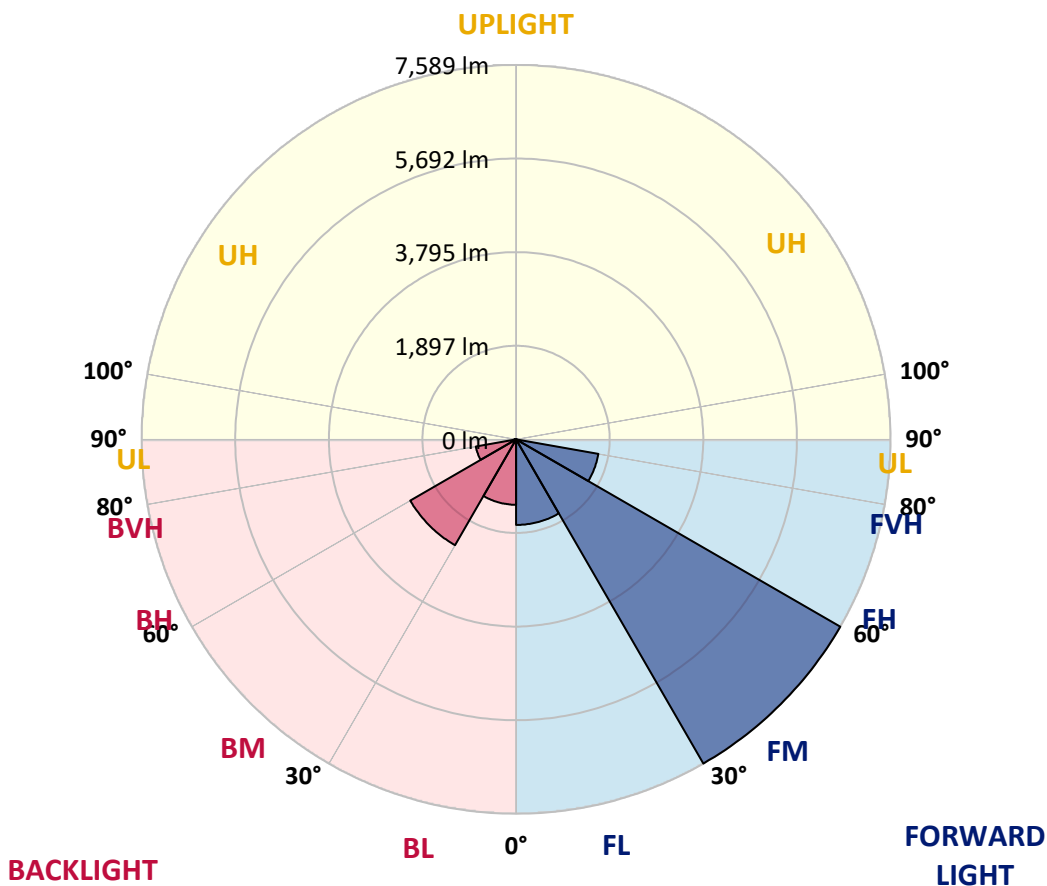
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.3	11.0			
FM (30°-60°)	7589.4	48.3			
FH (60°-80°)	1693.5	10.8			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1325.8	8.4	B3/2500		
BM (30°-60°)	2477.1	15.8	B2/2500		
BH (60°-80°)	828.3	5.3	B2/1000		G2/1000
BVH (80°-90°)	37.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2
2.5°	3715.0	3707.3	3709.9	3720.1	3758.7	3786.9	3816.4	3843.4	3869.1	3876.8	3883.2
5°	3582.7	3568.6	3572.5	3589.2	3634.1	3681.6	3734.3	3798.5	3860.1	3880.7	3907.6
7.5°	3489.0	3486.4	3492.8	3518.5	3566.0	3611.0	3679.0	3770.2	3876.8	3911.5	3959.0
10°	3364.4	3359.3	3385.0	3437.6	3516.0	3587.9	3668.8	3776.6	3925.6	3977.0	4050.2
12.5°	3265.6	3263.0	3290.0	3363.1	3463.3	3577.6	3689.3	3810.0	3991.1	4061.7	4151.6
15°	3323.3	3311.8	3313.1	3364.4	3454.3	3589.2	3740.7	3870.4	4056.6	4146.5	4262.0
17.5°	3491.6	3471.0	3455.6	3464.6	3516.0	3655.9	3819.0	3951.3	4132.3	4237.6	4378.9
20°	3724.0	3712.4	3670.1	3641.8	3653.4	3776.6	3942.3	4065.6	4231.2	4349.4	4500.9
22.5°	4036.0	4007.8	3950.0	3905.1	3870.4	3966.7	4119.5	4226.1	4368.6	4491.9	4649.8
25°	4422.6	4381.5	4290.3	4219.7	4145.2	4244.1	4380.2	4461.1	4557.4	4671.7	4821.9
27.5°	4816.8	4782.1	4680.7	4585.6	4493.2	4554.8	4716.6	4762.9	4752.6	4836.0	4964.5
30°	5236.7	5193.0	5096.7	4994.0	4874.6	4914.4	5059.5	5082.6	4973.5	5042.8	5130.1
32.5°	5679.7	5637.3	5553.9	5434.5	5299.6	5315.0	5354.8	5376.7	5272.7	5312.5	5379.2
35°	6130.5	6090.6	6005.9	5887.8	5788.9	5695.1	5595.0	5682.3	5621.9	5699.0	5693.9
37.5°	6542.7	6502.9	6450.2	6359.0	6189.5	6004.6	5773.5	5881.3	5975.1	6072.7	6056.0
40°	6821.3	6794.4	6807.2	6793.1	6574.8	6208.8	5860.8	5978.9	6234.5	6401.4	6392.4
42.5°	7061.5	7034.5	7109.0	7162.9	6906.1	6397.6	5903.2	6016.2	6400.1	6660.8	6648.0
45°	7168.0	7160.3	7283.6	7454.4	7209.1	6597.9	6012.3	6093.2	6526.0	6859.8	6811.0
47.5°	7040.9	7067.9	7310.6	7599.5	7460.8	6835.4	6235.8	6256.3	6690.3	7075.6	6938.2
50°	6787.9	6847.0	7174.5	7603.4	7644.5	7103.8	6545.2	6493.9	6911.2	7305.4	7005.0
52.5°	6419.4	6481.0	7015.2	7573.8	7749.7	7414.6	6957.4	6884.2	7189.9	7535.3	7016.5
55°	5573.1	5656.6	6650.5	7507.0	7852.5	7697.1	7422.3	7273.3	7549.4	7851.2	7130.8
57.5°	4834.8	4878.4	5761.9	7210.4	7873.0	7905.1	7753.6	7576.4	7906.4	8192.8	7259.2
60°	3548.1	3558.3	4353.2	5966.1	7242.5	7784.4	7726.6	7463.4	7736.9	7919.3	6671.1
62.5°	2004.5	2005.8	2640.2	3982.1	5410.1	6344.9	6380.9	6148.4	5918.6	5972.5	4643.4
65°	752.5	823.1	1205.8	1957.0	3119.2	3745.8	3894.8	3948.7	3566.0	3328.5	2489.9
67.5°	503.4	520.1	703.7	1006.8	1388.1	1602.6	1792.7	1797.8	1315.0	1172.4	981.1
70°	384.0	400.6	553.5	720.4	703.7	649.8	702.4	683.2	706.3	725.5	746.1
72.5°	286.4	303.1	428.9	508.5	422.5	416.1	471.3	523.9	572.7	593.3	625.4
75°	190.1	202.9	288.9	272.2	233.7	276.1	344.1	396.8	425.0	449.4	473.8
77.5°	120.7	129.7	154.1	124.6	129.7	161.8	200.3	247.8	274.8	299.2	312.0
80°	55.2	53.9	52.6	59.1	73.2	95.0	120.7	149.0	169.5	179.8	187.5
82.5°	21.8	24.4	27.0	32.1	39.8	51.4	68.1	87.3	104.0	106.6	113.0
85°	9.0	10.3	11.6	14.1	18.0	23.1	28.3	39.8	50.1	53.9	57.8
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	3.9	6.4	11.6	12.8	14.1
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°	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2	3892.2
2.5°	3917.9	3901.2	3929.5	3948.7	3966.7	3947.4	3941.0	3924.3	3921.7	3921.7	3930.7
5°	3953.8	3942.3	3971.8	3983.4	3982.1	3939.7	3914.0	3880.7	3864.0	3864.0	3866.5
7.5°	4018.1	4011.6	4028.3	4010.4	3969.3	3883.2	3798.5	3727.8	3680.3	3655.9	3663.6
10°	4124.6	4116.9	4102.8	4036.0	3917.9	3739.4	3566.0	3437.6	3360.6	3316.9	3319.5
12.5°	4228.7	4215.8	4165.7	4018.1	3775.4	3491.6	3264.3	3120.4	3035.7	2984.3	2972.8
15°	4342.9	4309.6	4201.7	3925.6	3542.9	3188.5	2950.9	2795.6	2704.4	2673.6	2672.3
17.5°	4452.1	4393.0	4197.8	3761.2	3264.3	2871.3	2632.5	2536.2	2520.8	2534.9	2538.7
20°	4562.5	4467.5	4155.5	3533.9	2933.0	2555.4	2432.2	2472.0	2529.7	2568.3	2577.3
22.5°	4676.8	4529.1	4059.1	3241.2	2583.7	2342.3	2393.6	2480.9	2552.9	2604.2	2609.4
25°	4805.2	4586.9	3915.3	2882.9	2303.7	2283.2	2384.6	2477.1	2554.1	2613.2	2623.5
27.5°	4878.4	4588.2	3713.7	2514.3	2175.3	2260.1	2362.8	2450.1	2527.2	2591.4	2602.9
30°	4950.3	4553.5	3394.0	2215.1	2138.1	2233.1	2325.6	2406.5	2479.7	2542.6	2556.7
32.5°	5051.8	4521.4	3025.4	2043.1	2116.3	2207.4	2283.2	2355.1	2411.6	2439.9	2447.6
35°	5177.6	4480.3	2633.8	1968.6	2102.1	2186.9	2253.7	2292.2	2219.0	2203.6	2220.3
37.5°	5353.6	4441.8	2243.4	1936.5	2093.1	2179.2	2238.2	2139.4	2049.5	2013.5	2026.4
40°	5543.6	4420.0	1978.9	1910.8	2097.0	2186.9	2174.0	2027.6	1898.0	1822.2	1819.6
42.5°	5705.4	4386.6	1809.3	1894.1	2107.3	2216.4	2086.7	1928.8	1736.1	1691.2	1692.5
45°	5814.6	4301.8	1719.5	1876.1	2116.3	2222.8	2045.6	1792.7	1655.2	1627.0	1625.7
47.5°	5859.5	4147.8	1661.7	1847.9	2115.0	2170.2	1962.2	1736.1	1598.7	1591.0	1596.2
50°	5830.0	3894.8	1602.6	1792.7	2084.1	2115.0	1865.8	1686.1	1560.2	1602.6	1633.4
52.5°	5720.8	3567.3	1532.0	1716.9	2028.9	2052.0	1817.0	1655.2	1532.0	1588.5	1612.9
55°	5692.6	3301.5	1442.1	1618.0	1946.7	1940.3	1765.7	1639.8	1512.7	1490.9	1494.7
57.5°	5655.3	3042.1	1293.1	1440.8	1738.7	1749.0	1716.9	1621.9	1462.6	1456.2	1462.6
60°	4913.1	2332.0	1153.2	1243.0	1428.0	1483.2	1661.7	1588.5	1381.7	1354.8	1353.5
62.5°	3209.1	1412.5	1026.0	1083.8	1163.4	1227.6	1515.3	1492.2	1293.1	1276.4	1288.0
65°	1725.9	1006.8	933.6	968.2	1011.9	1060.7	1255.9	1329.1	1168.6	1109.5	1110.8
67.5°	882.2	856.5	864.2	888.6	922.0	946.4	1013.2	1077.4	996.5	946.4	945.1
70°	755.1	775.6	787.2	801.3	823.1	819.3	825.7	837.3	830.8	806.4	805.2
72.5°	643.4	675.5	678.0	680.6	688.3	670.3	658.8	639.5	640.8	644.6	645.9
75°	489.3	520.1	527.8	523.9	531.6	508.5	493.1	473.8	450.7	446.9	449.4
77.5°	318.5	342.9	354.4	351.9	355.7	337.7	330.0	309.5	282.5	272.2	272.2
80°	192.6	206.7	215.7	218.3	222.2	209.3	196.5	178.5	166.9	155.4	155.4
82.5°	116.9	125.8	132.3	132.3	136.1	122.0	111.7	98.9	93.7	83.5	83.5
85°	59.1	65.5	68.1	66.8	64.2	52.6	48.8	42.4	39.8	34.7	34.7
87.5°	14.1	18.0	18.0	12.8	12.8	6.4	3.9	1.3	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)