

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: P640371

Luminaire Tested: GWS-SA5D-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640371
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-SA5D-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: 26572.2 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

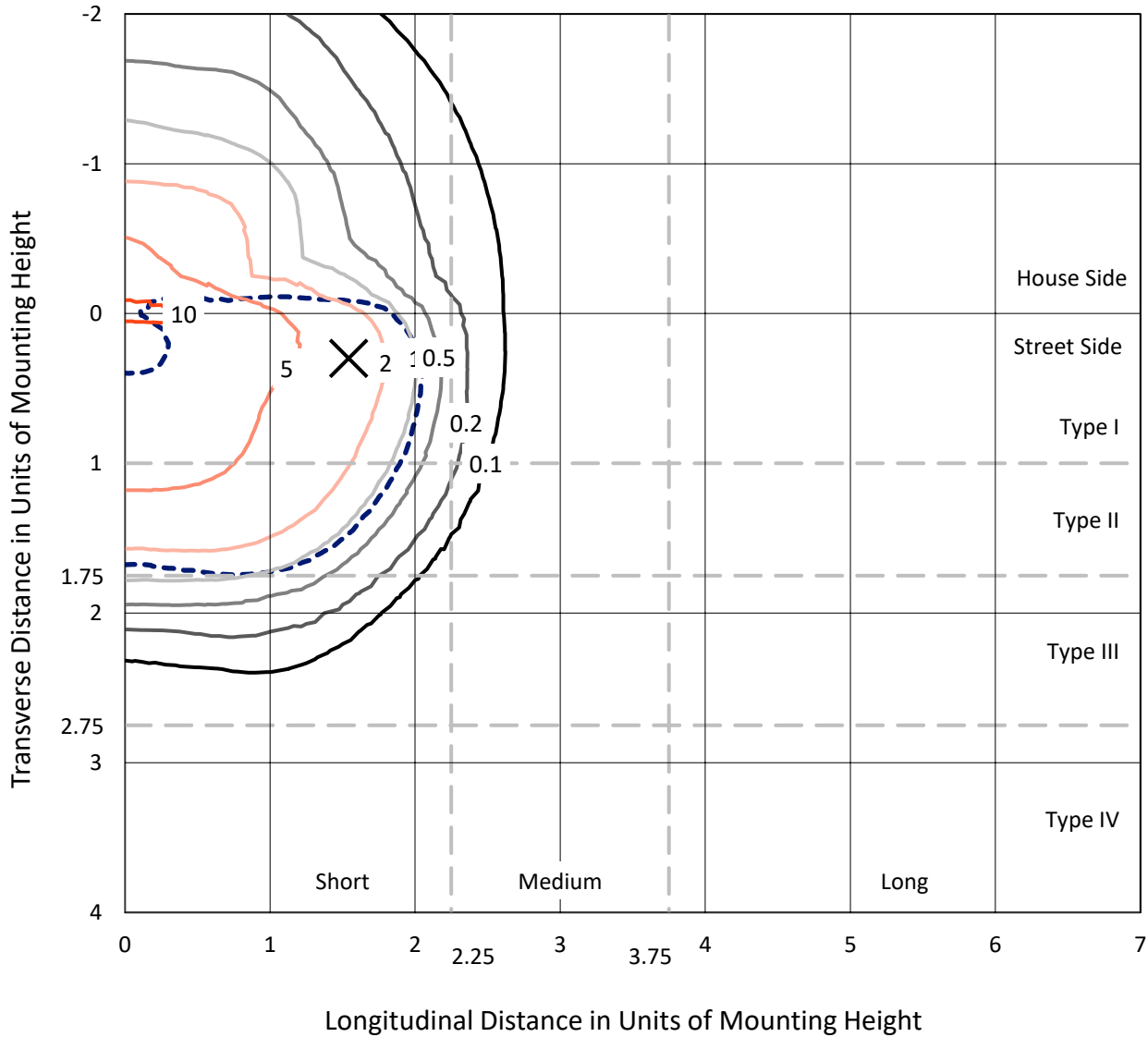
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

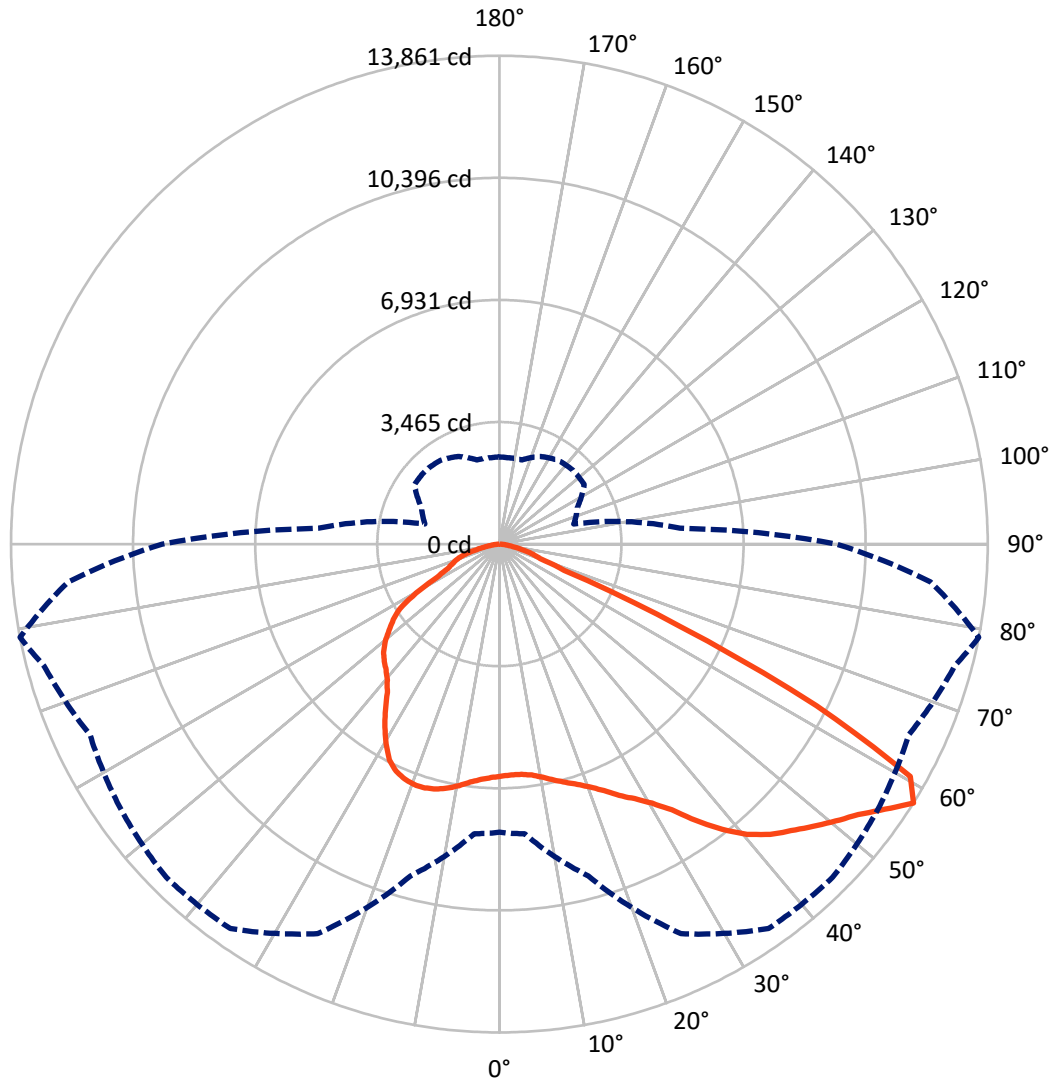
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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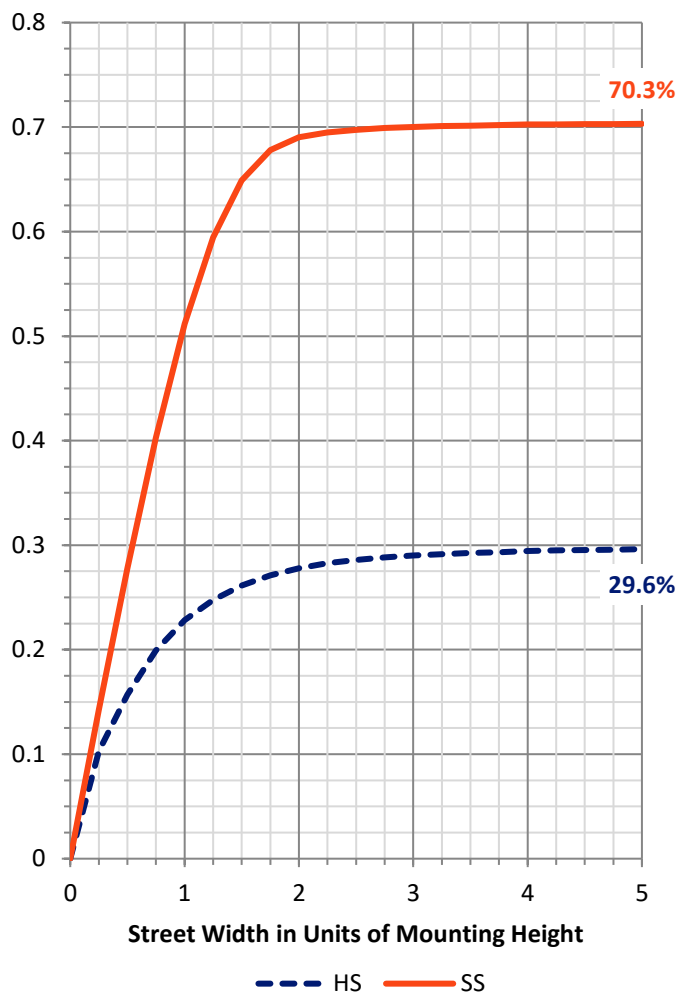
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7898.7	0.0	7898.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	18673.5	0.0	18673.5
	% Fixture	70.3	0.0	70.3
Total	Lumens	26572.2	0.0	26572.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.8	2.3
10°-20°	1694.8	6.4
20°-30°	2872.7	10.8
30°-40°	4397.0	16.5
40°-50°	5863.0	22.1
50°-60°	6771.3	25.5
60°-70°	3518.6	13.2
70°-80°	748.0	2.8
80°-90°	96.9	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°	26572.2	100.0
0°-180°	26572.2	100.0

Coefficient of Utilization



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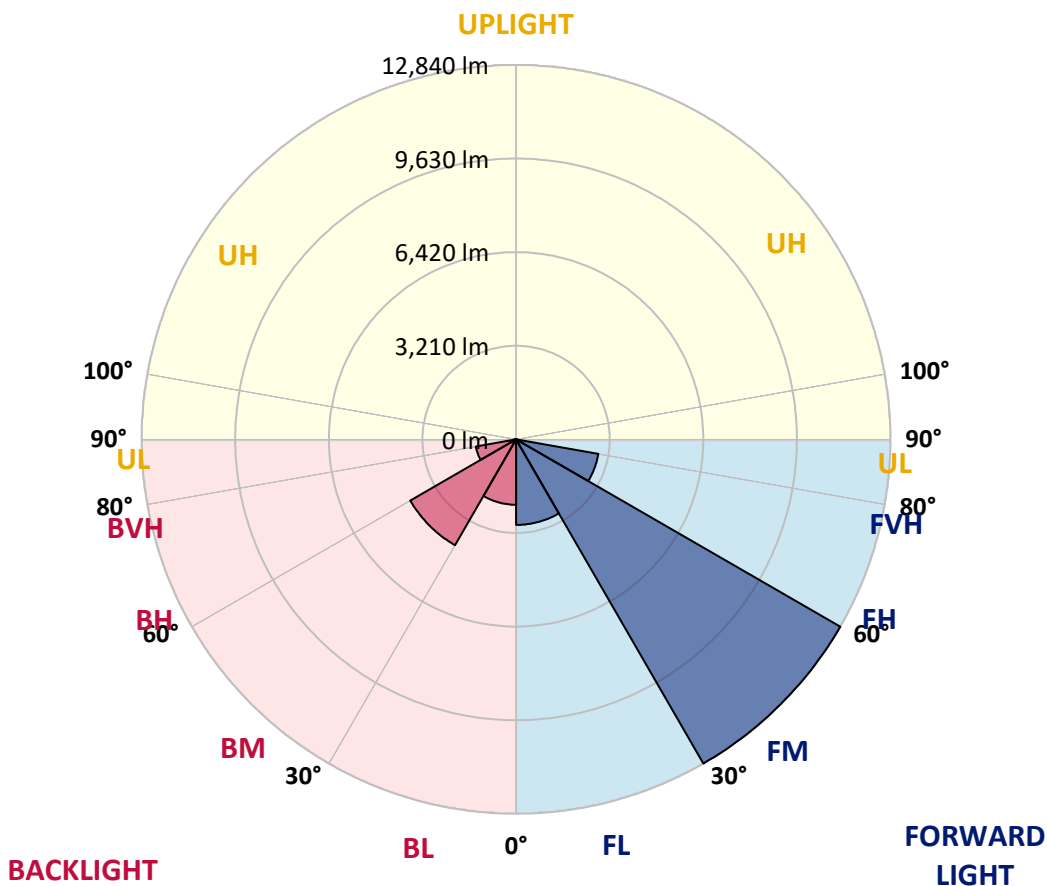
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2934.2	11.0			
FM (30°-60°)	12840.4	48.3			
FH (60°-80°)	2865.1	10.8			G2/5000
FVH (80°-90°)	33.8	0.1			G1/100
BL (0°-30°)	2243.1	8.4	B3/2500		
BM (30°-60°)	4191.0	15.8	B3/5000		
BH (60°-80°)	1401.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	63.1	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°	75°	79°	85°
0°	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2
2.5°	6285.4	6272.3	6276.7	6294.1	6359.3	6407.1	6457.0	6502.6	6546.1	6559.1	6570.0
5°	6061.6	6037.7	6044.2	6072.5	6148.5	6228.9	6318.0	6426.6	6530.9	6565.7	6611.3
7.5°	5903.0	5898.7	5909.5	5953.0	6033.4	6109.4	6224.6	6378.8	6559.1	6617.8	6698.2
10°	5692.3	5683.6	5727.0	5816.1	5948.6	6070.3	6207.2	6389.7	6641.7	6728.6	6852.4
12.5°	5525.0	5520.6	5566.2	5690.1	5859.6	6052.9	6241.9	6446.2	6752.5	6872.0	7024.1
15°	5622.7	5603.2	5605.4	5692.3	5844.3	6072.5	6328.8	6548.3	6863.3	7015.4	7210.9
17.5°	5907.3	5872.6	5846.5	5861.7	5948.6	6185.4	6461.4	6685.1	6991.5	7169.6	7408.6
20°	6300.6	6281.0	6209.3	6161.5	6181.1	6389.7	6669.9	6878.5	7158.8	7358.7	7615.0
22.5°	6828.5	6780.7	6683.0	6606.9	6548.3	6711.2	6969.8	7150.1	7391.2	7599.8	7867.1
25°	7482.5	7413.0	7258.7	7139.2	7013.2	7180.5	7410.8	7547.7	7710.6	7904.0	8158.2
27.5°	8149.5	8090.8	7919.2	7758.4	7602.0	7706.3	7980.0	8058.2	8040.9	8182.1	8399.3
30°	8859.9	8786.1	8623.1	8449.3	8247.3	8314.6	8560.1	8599.2	8414.5	8531.9	8679.6
32.5°	9609.5	9537.8	9396.6	9194.5	8966.4	8992.5	9059.8	9096.8	8920.8	8988.1	9101.1
35°	10372.1	10304.7	10161.3	9961.5	9794.2	9635.6	9466.1	9613.8	9511.7	9642.1	9633.4
37.5°	11069.5	11002.1	10913.1	10758.8	10472.0	10159.2	9768.1	9950.6	10109.2	10274.3	10246.1
40°	11540.9	11495.3	11517.0	11493.1	11123.8	10504.6	9915.8	10115.7	10548.1	10830.5	10815.3
42.5°	11947.2	11901.6	12027.6	12118.9	11684.3	10824.0	9987.5	10178.7	10828.3	11269.4	11247.6
45°	12127.6	12114.5	12323.1	12612.0	12197.1	11162.9	10172.2	10309.1	11041.2	11606.1	11523.6
47.5°	11912.5	11958.1	12368.7	12857.6	12622.9	11564.8	10550.2	10585.0	11319.3	11971.1	11738.7
50°	11484.5	11584.4	12138.4	12864.1	12933.6	12018.9	11073.8	10986.9	11693.0	12360.0	11851.6
52.5°	10860.9	10965.2	11869.0	12814.1	13111.8	12544.7	11771.2	11647.4	12164.5	12748.9	11871.2
55°	9429.2	9570.4	11252.0	12701.1	13285.6	13022.7	12557.7	12305.7	12772.8	13283.4	12064.5
57.5°	8179.9	8253.8	9748.5	12199.3	13320.3	13374.6	13118.3	12818.4	13376.8	13861.3	12281.8
60°	6002.9	6020.3	7365.2	10094.0	12253.6	13170.4	13072.6	12627.3	13090.0	13398.5	11286.8
62.5°	3391.5	3393.6	4466.9	6737.3	9153.2	10734.9	10795.7	10402.5	10013.6	10104.8	7856.2
65°	1273.2	1392.6	2040.1	3311.1	5277.3	6337.5	6589.6	6680.8	6033.4	5631.4	4212.7
67.5°	851.7	879.9	1190.6	1703.3	2348.6	2711.4	3033.0	3041.7	2224.8	1983.6	1659.9
70°	649.6	677.9	936.4	1218.8	1190.6	1099.3	1188.4	1155.8	1194.9	1227.5	1262.3
72.5°	484.5	512.7	725.7	860.4	714.8	703.9	797.4	886.4	969.0	1003.7	1058.1
75°	321.5	343.3	488.8	460.6	395.4	467.1	582.3	671.3	719.1	760.4	801.7
77.5°	204.2	219.4	260.7	210.7	219.4	273.7	338.9	419.3	464.9	506.2	527.9
80°	93.4	91.2	89.1	99.9	123.8	160.8	204.2	252.0	286.8	304.2	317.2
82.5°	36.9	41.3	45.6	54.3	67.4	86.9	115.1	147.7	176.0	180.3	191.2
85°	15.2	17.4	19.6	23.9	30.4	39.1	47.8	67.4	84.7	91.2	97.8
87.5°	0.0	0.0	0.0	0.0	2.2	4.3	6.5	10.9	19.6	21.7	23.9
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°	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2	6585.2
2.5°	6628.7	6600.4	6648.2	6680.8	6711.2	6678.6	6667.8	6639.5	6635.2	6635.2	6650.4
5°	6689.5	6669.9	6719.9	6739.5	6737.3	6665.6	6622.1	6565.7	6537.4	6537.4	6541.8
7.5°	6798.1	6787.3	6815.5	6785.1	6715.6	6570.0	6426.6	6307.1	6226.7	6185.4	6198.5
10°	6978.4	6965.4	6941.5	6828.5	6628.7	6326.7	6033.4	5816.1	5685.7	5611.9	5616.2
12.5°	7154.4	7132.7	7048.0	6798.1	6387.5	5907.3	5522.8	5279.5	5136.1	5049.2	5029.6
15°	7347.8	7291.3	7108.8	6641.7	5994.3	5394.6	4992.7	4729.8	4575.5	4523.4	4521.2
17.5°	7532.5	7432.5	7102.3	6363.6	5522.8	4858.0	4453.9	4290.9	4264.8	4288.7	4295.3
20°	7719.3	7558.5	7030.6	5979.0	4962.3	4323.5	4114.9	4182.3	4280.1	4345.2	4360.4
22.5°	7912.7	7662.8	6867.6	5483.7	4371.3	3962.9	4049.8	4197.5	4319.2	4406.1	4414.8
25°	8129.9	7760.6	6624.3	4877.5	3897.7	3862.9	4034.6	4191.0	4321.3	4421.3	4438.7
27.5°	8253.8	7762.8	6283.2	4254.0	3680.4	3823.8	3997.6	4145.4	4275.7	4384.3	4403.9
30°	8375.4	7704.1	5742.2	3747.8	3617.4	3778.2	3934.6	4071.5	4195.3	4301.8	4325.7
32.5°	8547.1	7649.8	5118.7	3456.6	3580.5	3734.7	3862.9	3984.6	4080.2	4128.0	4141.0
35°	8760.0	7580.3	4456.0	3330.6	3556.6	3700.0	3812.9	3878.1	3754.3	3728.2	3756.5
37.5°	9057.6	7515.1	3795.6	3276.3	3541.4	3686.9	3786.9	3619.6	3467.5	3406.7	3428.4
40°	9379.2	7478.2	3348.0	3232.9	3547.9	3700.0	3678.2	3430.6	3211.1	3082.9	3078.6
42.5°	9652.9	7421.7	3061.2	3204.6	3565.3	3749.9	3530.5	3263.3	2937.4	2861.3	2863.5
45°	9837.6	7278.3	2909.1	3174.2	3580.5	3760.8	3461.0	3033.0	2800.5	2752.7	2750.5
47.5°	9913.7	7017.6	2811.4	3126.4	3578.3	3671.7	3319.8	2937.4	2704.9	2691.9	2700.6
50°	9863.7	6589.6	2711.4	3033.0	3526.2	3578.3	3156.8	2852.6	2639.7	2711.4	2763.6
52.5°	9679.0	6035.5	2591.9	2904.8	3432.7	3471.8	3074.3	2800.5	2591.9	2687.5	2728.8
55°	9631.2	5585.8	2439.9	2737.5	3293.7	3282.8	2987.3	2774.4	2559.3	2522.4	2528.9
57.5°	9568.2	5146.9	2187.8	2437.7	2941.7	2959.1	2904.8	2744.0	2474.6	2463.7	2474.6
60°	8312.4	3945.5	1951.0	2103.1	2416.0	2509.4	2811.4	2687.5	2337.7	2292.1	2289.9
62.5°	5429.4	2389.9	1735.9	1833.7	1968.4	2077.0	2563.7	2524.6	2187.8	2159.6	2179.1
65°	2920.0	1703.3	1579.5	1638.2	1712.0	1794.6	2124.8	2248.7	1977.1	1877.1	1879.3
67.5°	1492.6	1449.1	1462.2	1503.5	1559.9	1601.2	1714.2	1822.8	1686.0	1601.2	1599.0
70°	1277.5	1312.3	1331.8	1355.7	1392.6	1386.1	1397.0	1416.5	1405.7	1364.4	1362.2
72.5°	1088.5	1142.8	1147.1	1151.5	1164.5	1134.1	1114.6	1082.0	1084.1	1090.7	1092.8
75°	827.8	879.9	892.9	886.4	899.5	860.4	834.3	801.7	762.6	756.1	760.4
77.5°	538.8	580.1	599.6	595.3	601.8	571.4	558.4	523.6	478.0	460.6	460.6
80°	325.9	349.8	365.0	369.3	375.9	354.1	332.4	302.0	282.4	262.9	262.9
82.5°	197.7	212.9	223.8	223.8	230.3	206.4	189.0	167.3	158.6	141.2	141.2
85°	99.9	110.8	115.1	113.0	108.6	89.1	82.6	71.7	67.4	58.7	58.7
87.5°	23.9	30.4	30.4	21.7	21.7	10.9	6.5	2.2	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)