

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: P640247

Luminaire Tested: GWS-SA5D-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29986 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

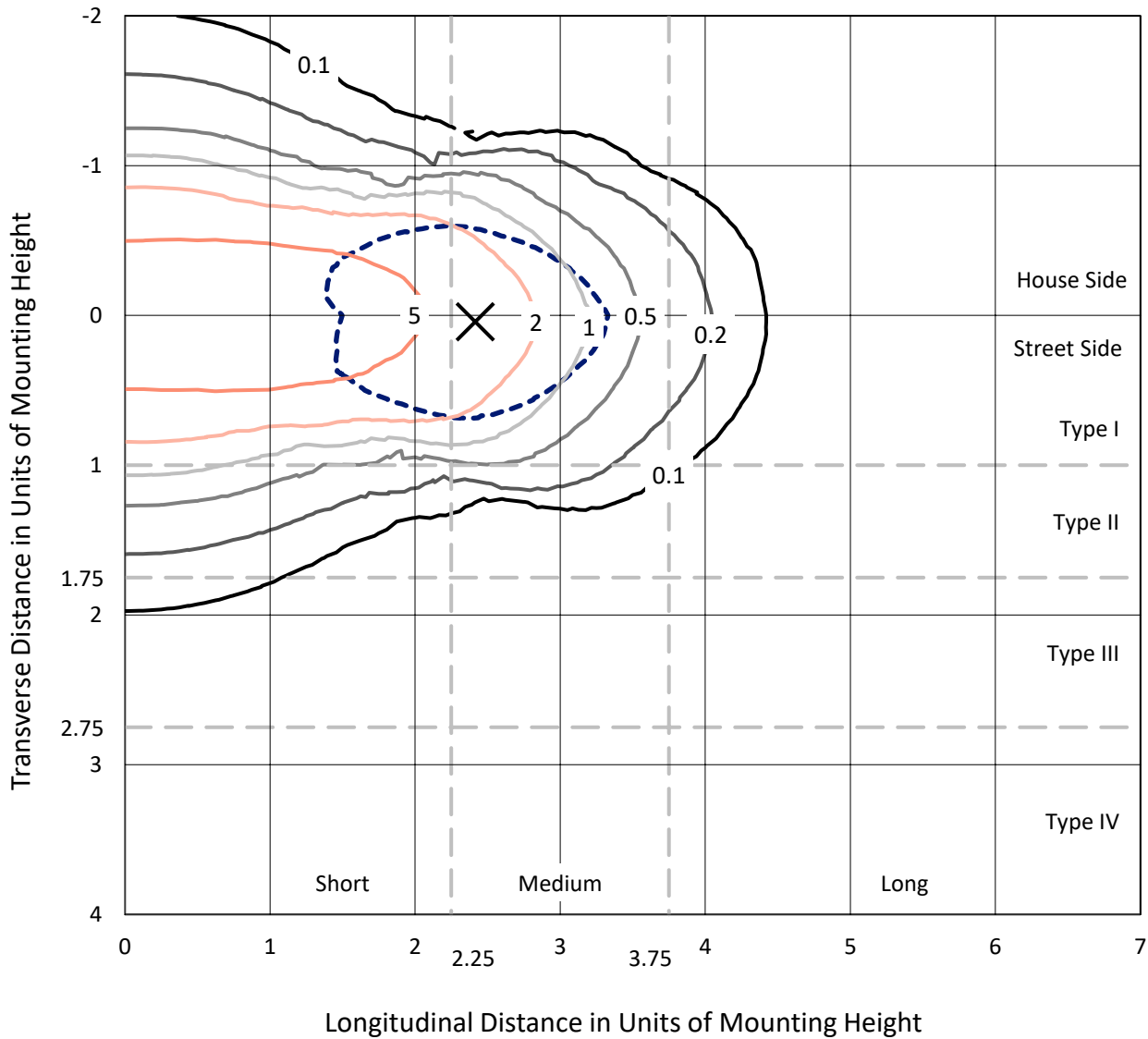
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

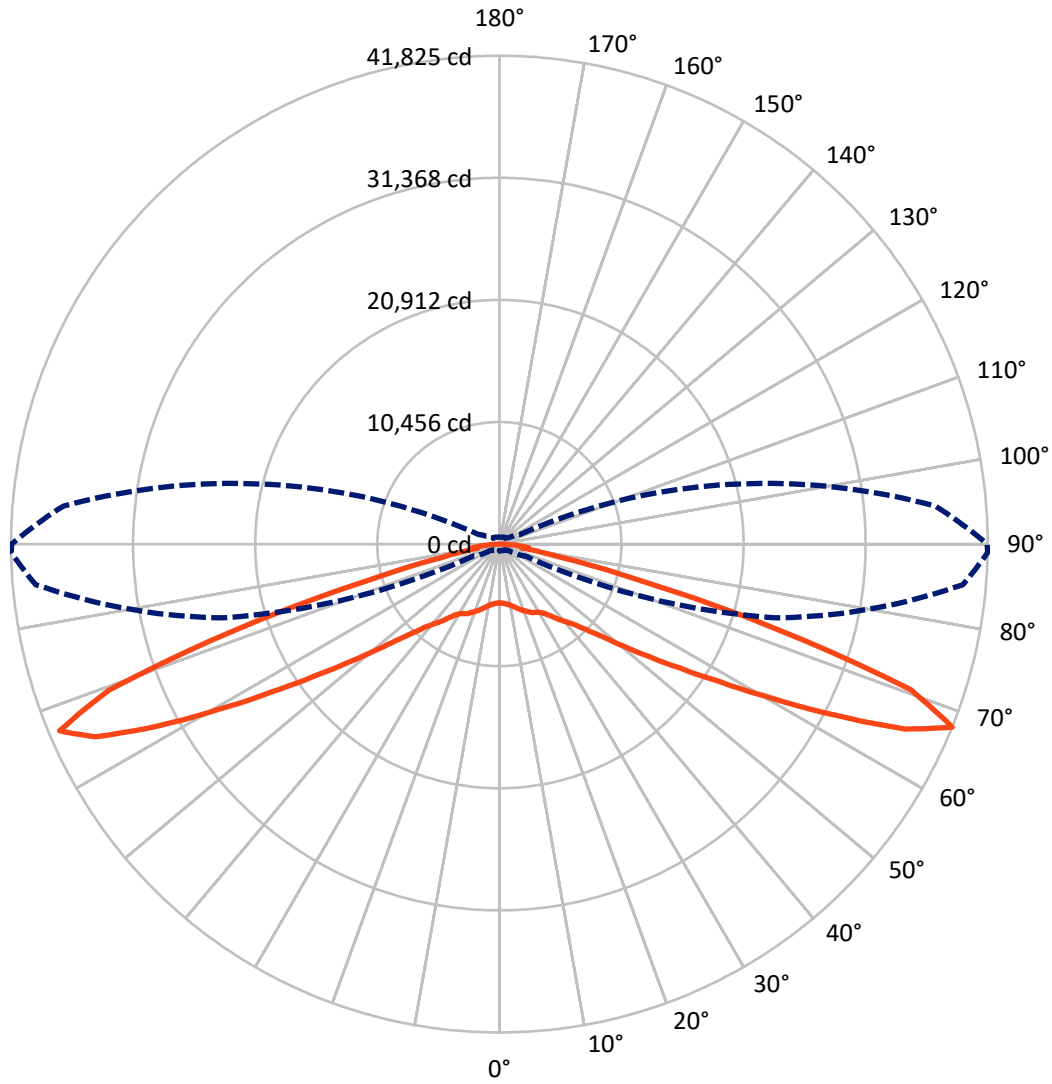
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14861.6	0.0	14861.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	15124.4	0.0	15124.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	29986.0	0.0	29986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.8	1.7
10°-20°	1643.8	5.5
20°-30°	2778.8	9.3
30°-40°	3813.6	12.7
40°-50°	4863.2	16.2
50°-60°	6101.6	20.3
60°-70°	7359.0	24.5
70°-80°	2662.3	8.9
80°-90°	258.9	0.9
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°	29986.0	100.0
0°-180°	29986.0	100.0

Coefficient of Utilization



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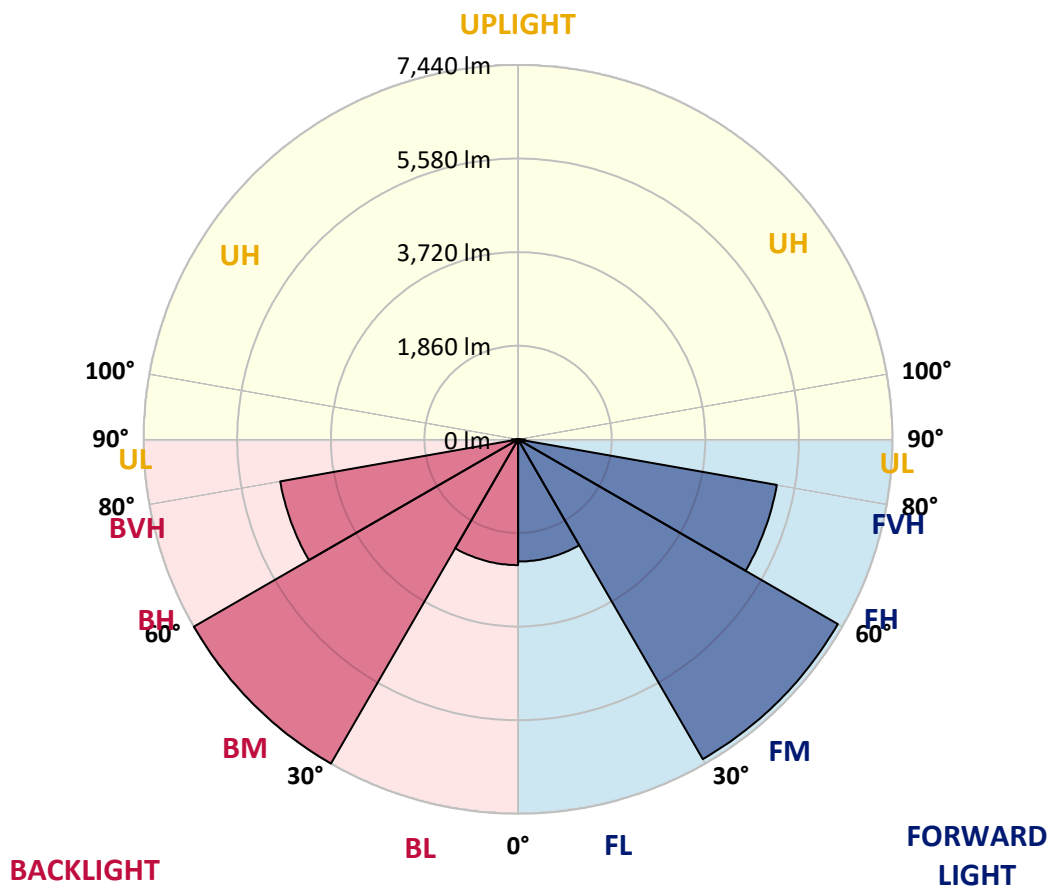
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.6	8.1			
FM (30°-60°)	7338.2	24.5			
FH (60°-80°)	5221.0	17.4			G3/7500
FVH (80°-90°)	136.6	0.5			G2/225
BL (0°-30°)	2498.9	8.3	B3/2500		
BM (30°-60°)	7440.2	24.8	B4/8500		
BH (60°-80°)	4800.3	16.0	B4/5000		G4/5000
BVH (80°-90°)	122.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°	
0°	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9
2.5°	5048.0	5043.7	5032.9	5065.2	5058.8	5060.9	5073.8	5065.2	5050.1	5024.3	5024.3	5060.9
5°	5190.1	5188.0	5164.3	5183.7	5162.1	5147.0	5144.9	5123.4	5106.1	5078.1	5078.1	5116.9
7.5°	5327.9	5325.8	5306.4	5340.9	5323.6	5306.4	5287.0	5244.0	5203.0	5162.1	5162.1	5205.2
10°	5433.5	5431.3	5427.0	5476.5	5480.9	5487.3	5478.7	5405.5	5334.4	5284.9	5284.9	5327.9
12.5°	5493.8	5500.2	5511.0	5601.5	5646.7	5689.7	5700.5	5640.2	5521.8	5450.7	5450.7	5502.4
15°	5452.9	5465.8	5519.6	5683.3	5808.2	5905.1	5946.0	5896.5	5743.6	5625.1	5625.1	5683.3
17.5°	5256.9	5267.6	5373.2	5623.0	5898.6	6122.6	6189.4	6159.2	5989.1	5844.8	5844.8	5900.8
20°	4985.5	5009.2	5123.4	5472.2	5883.6	6273.4	6452.1	6441.3	6256.1	6034.3	6034.3	6101.1
22.5°	4740.0	4768.0	4888.6	5274.1	5782.4	6312.1	6717.0	6745.0	6499.5	6223.8	6223.8	6277.7
25°	4464.4	4490.2	4645.3	5039.4	5607.9	6282.0	6943.1	7070.2	6775.2	6441.3	6441.3	6490.9
27.5°	4182.2	4201.6	4354.5	4774.5	5379.6	6226.0	7121.9	7427.7	7046.5	6592.1	6592.1	6626.6
30°	3934.6	3960.4	4100.4	4509.6	5129.8	6114.0	7268.3	7808.9	7358.8	6762.2	6762.2	6790.2
32.5°	3695.5	3717.1	3870.0	4249.0	4864.9	5941.7	7399.7	8256.8	7821.8	7078.8	7078.8	7078.8
35°	3394.0	3432.8	3605.1	3999.2	4615.1	5713.4	7494.4	8778.0	8454.9	7546.1	7546.1	7548.3
37.5°	3116.2	3137.8	3318.7	3717.1	4352.4	5455.0	7503.1	9318.5	9256.1	8140.5	8140.5	8144.8
40°	2799.6	2827.6	3021.5	3415.6	4050.9	5183.7	7421.2	9822.5	10096.0	8752.1	8752.1	8728.4
42.5°	2478.8	2519.7	2704.9	3090.4	3725.7	4852.0	7203.7	10302.7	11162.0	9460.7	9460.7	9402.5
45°	2168.7	2194.5	2379.7	2743.7	3353.1	4455.8	6854.8	10763.6	12428.3	10537.5	10537.5	10453.5
47.5°	1819.8	1830.5	2022.2	2371.1	2967.6	4014.3	6355.2	11174.9	13819.5	11963.1	11963.1	11818.8
50°	1509.7	1524.7	1675.5	1974.8	2496.0	3490.9	5732.8	11416.1	15591.9	13907.8	13907.8	13658.0
52.5°	1221.1	1236.2	1356.8	1595.8	2063.1	2894.4	4961.8	11360.1	17390.1	16322.0	16322.0	15958.0
55°	986.3	997.1	1078.9	1266.3	1623.8	2302.2	4050.9	10858.3	19386.5	19474.8	19474.8	18690.9
57.5°	833.4	837.7	893.7	1007.9	1268.5	1774.5	3127.0	9673.9	21479.8	23497.7	23497.7	22209.8
60°	745.1	747.3	773.1	844.2	1001.4	1354.6	2291.4	7787.3	23648.4	28530.6	28530.6	26764.7
62.5°	689.1	689.1	710.7	751.6	831.3	1042.3	1684.1	5592.8	25205.5	34007.1	34007.1	32252.0
65°	635.3	635.3	650.4	684.8	727.9	850.7	1264.1	3607.2	25970.0	38585.6	38585.6	38195.8
67.5°	566.4	568.5	579.3	615.9	654.7	710.7	958.3	2440.0	24382.8	39851.9	39851.9	41824.6
70°	501.8	503.9	519.0	542.7	575.0	613.8	749.4	1681.9	17747.6	33190.9	33190.9	37396.9
72.5°	430.7	439.3	450.1	475.9	495.3	523.3	611.6	1089.7	10326.4	21350.6	21350.6	24720.9
75°	353.2	364.0	376.9	402.7	415.6	426.4	503.9	777.4	4968.3	10819.6	10819.6	12320.6
77.5°	273.5	284.3	299.3	323.0	331.7	344.6	385.5	562.1	2379.7	4796.0	4796.0	5170.7
80°	183.1	187.4	200.3	228.3	243.4	252.0	284.3	383.3	1033.7	1925.3	1925.3	1908.1
82.5°	112.0	114.1	118.4	135.7	142.1	150.8	185.2	234.7	493.2	2188.0	2188.0	2508.9
85°	40.9	38.8	36.6	47.4	56.0	64.6	86.1	118.4	215.4	1503.2	1503.2	1681.9
87.5°	0.0	0.0	0.0	2.2	4.3	4.3	8.6	17.2	51.7	562.1	562.1	385.5
90°	0.0	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°	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9	5032.9
2.5°	5050.1	5026.4	5056.6	5078.1	5125.5	5142.7	5147.0	5132.0	5132.0	5106.1	5110.4
5°	5108.3	5093.2	5142.7	5179.4	5248.3	5274.1	5291.3	5280.6	5287.0	5269.8	5274.1
7.5°	5196.6	5183.7	5269.8	5340.9	5411.9	5442.1	5457.2	5448.5	5450.7	5429.2	5435.6
10°	5319.3	5323.6	5427.0	5519.6	5614.4	5644.5	5651.0	5625.1	5603.6	5564.8	5567.0
12.5°	5487.3	5508.8	5655.3	5758.7	5855.6	5898.6	5851.3	5756.5	5668.2	5601.5	5592.8
15°	5670.4	5709.1	5920.2	6051.6	6157.1	6135.5	5995.6	5782.4	5607.9	5508.8	5489.5
17.5°	5890.0	5948.2	6213.1	6370.3	6460.7	6322.9	6030.0	5711.3	5467.9	5334.4	5308.6
20°	6096.8	6189.4	6523.2	6727.8	6738.5	6428.4	6014.9	5567.0	5261.2	5097.5	5063.1
22.5°	6286.3	6404.7	6848.4	7109.0	6969.0	6475.8	5922.3	5362.4	5011.4	4819.7	4789.6
25°	6493.0	6661.0	7227.4	7470.8	7199.4	6456.4	5728.5	5108.3	4709.9	4513.9	4492.4
27.5°	6635.2	6846.2	7608.6	7841.2	7388.9	6346.6	5478.7	4830.5	4434.2	4249.0	4218.9
30°	6798.8	7068.0	8028.5	8243.9	7505.2	6185.1	5211.7	4572.0	4177.9	3977.7	3956.1
32.5°	7096.0	7434.1	8549.7	8670.3	7541.8	5984.8	4955.4	4322.2	3910.9	3710.6	3680.5
35°	7574.1	7970.4	9281.9	9146.2	7513.8	5765.1	4712.0	4029.3	3637.4	3450.0	3419.9
37.5°	8177.1	8670.3	10098.1	9574.8	7436.3	5523.9	4423.4	3783.8	3391.9	3202.4	3185.1
40°	8739.2	9346.5	11013.4	9945.2	7279.1	5226.7	4145.6	3527.6	3127.0	2926.7	2887.9
42.5°	9443.4	10251.0	12073.0	10266.1	7020.7	4871.4	3833.4	3211.0	2795.3	2614.4	2567.1
45°	10513.8	11517.3	13304.8	10574.1	6635.2	4434.2	3441.4	2825.5	2431.4	2246.2	2209.6
47.5°	11849.0	13100.2	14640.0	10757.1	6049.4	3973.3	2997.8	2418.5	2024.4	1815.5	1798.2
50°	13724.7	15402.4	16072.1	10724.8	5394.7	3426.3	2498.1	1933.9	1604.4	1453.7	1430.0
52.5°	16009.7	18292.5	17620.6	10337.2	4699.1	2804.0	1946.8	1518.3	1272.8	1165.1	1145.7
55°	18876.1	21753.3	19250.8	9505.9	3820.4	2147.1	1529.0	1197.4	1029.4	964.8	956.2
57.5°	22425.2	26234.9	20820.8	8106.1	2872.9	1638.9	1178.0	988.5	908.8	870.0	867.9
60°	27109.2	30992.1	22184.0	6299.2	2056.7	1253.4	973.4	883.0	820.5	794.7	792.5
62.5°	32678.4	35312.2	23032.5	4289.9	1546.3	999.3	857.1	801.1	764.5	749.4	747.3
65°	38402.6	38042.9	22627.6	2810.4	1173.7	848.5	768.8	738.7	706.4	691.3	691.3
67.5°	41783.7	37465.8	19520.0	1951.1	930.3	745.1	693.5	665.5	611.6	598.7	598.7
70°	37009.2	30359.0	12794.4	1427.8	753.8	652.5	603.0	564.2	542.7	529.8	527.6
72.5°	24477.6	19754.8	6803.1	990.6	628.8	555.6	510.4	495.3	469.5	456.6	454.4
75°	12182.8	10375.9	3486.6	715.0	523.3	445.8	426.4	419.9	398.4	381.2	376.9
77.5°	5078.1	4619.4	1626.0	519.0	398.4	359.6	342.4	342.4	318.7	299.3	290.7
80°	1914.5	1705.6	768.8	355.3	295.0	267.0	256.3	247.7	228.3	204.6	191.7
82.5°	2560.6	1673.3	376.9	221.8	193.8	172.3	157.2	150.8	140.0	129.2	120.6
85°	1658.3	1188.8	170.1	114.1	96.9	73.2	64.6	60.3	53.8	47.4	43.1
87.5°	338.1	398.4	51.7	21.5	12.9	6.5	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)