

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: P642602

Luminaire Tested: GWS-SA6D-730-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-730-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25701.6 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

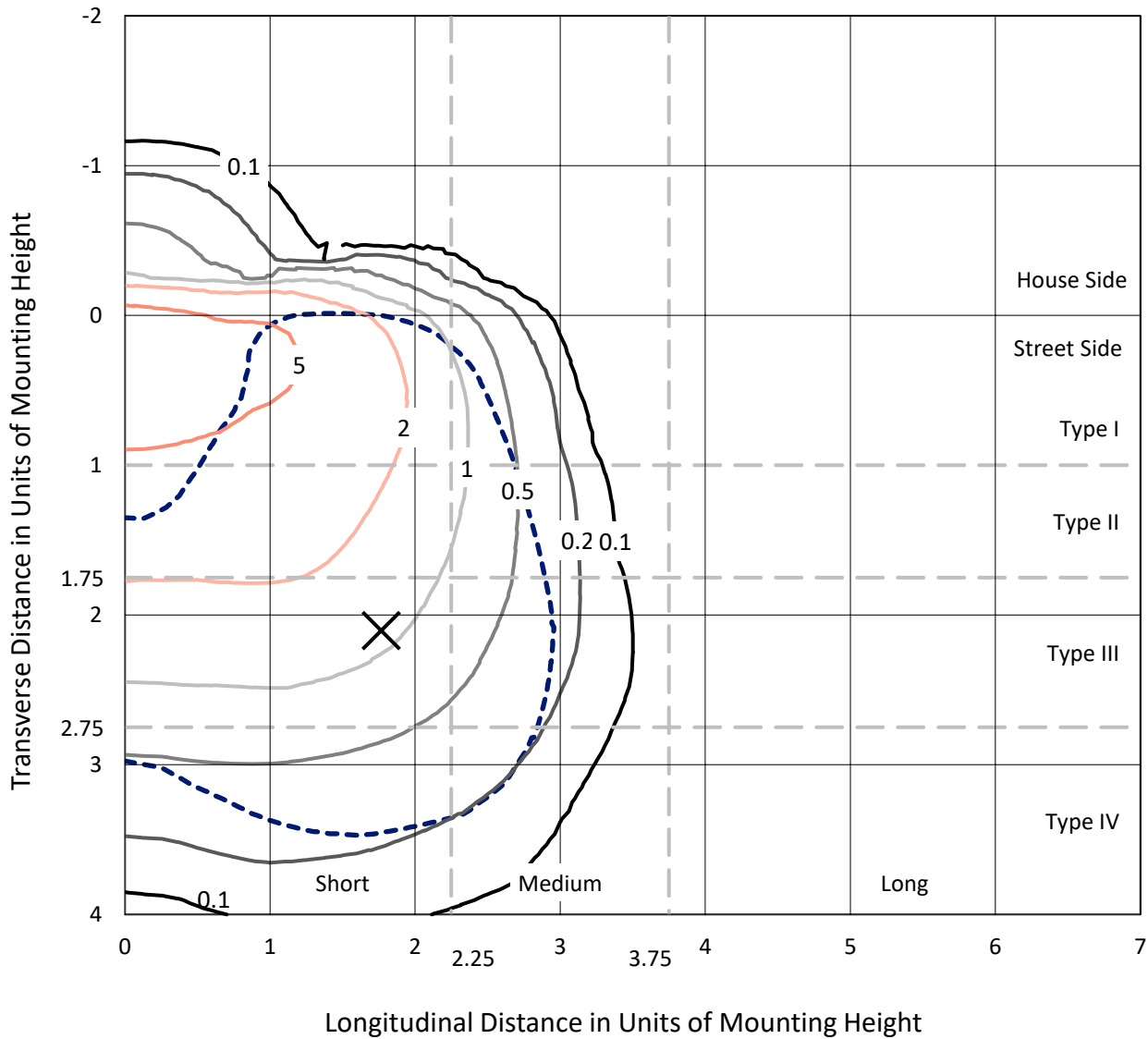
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

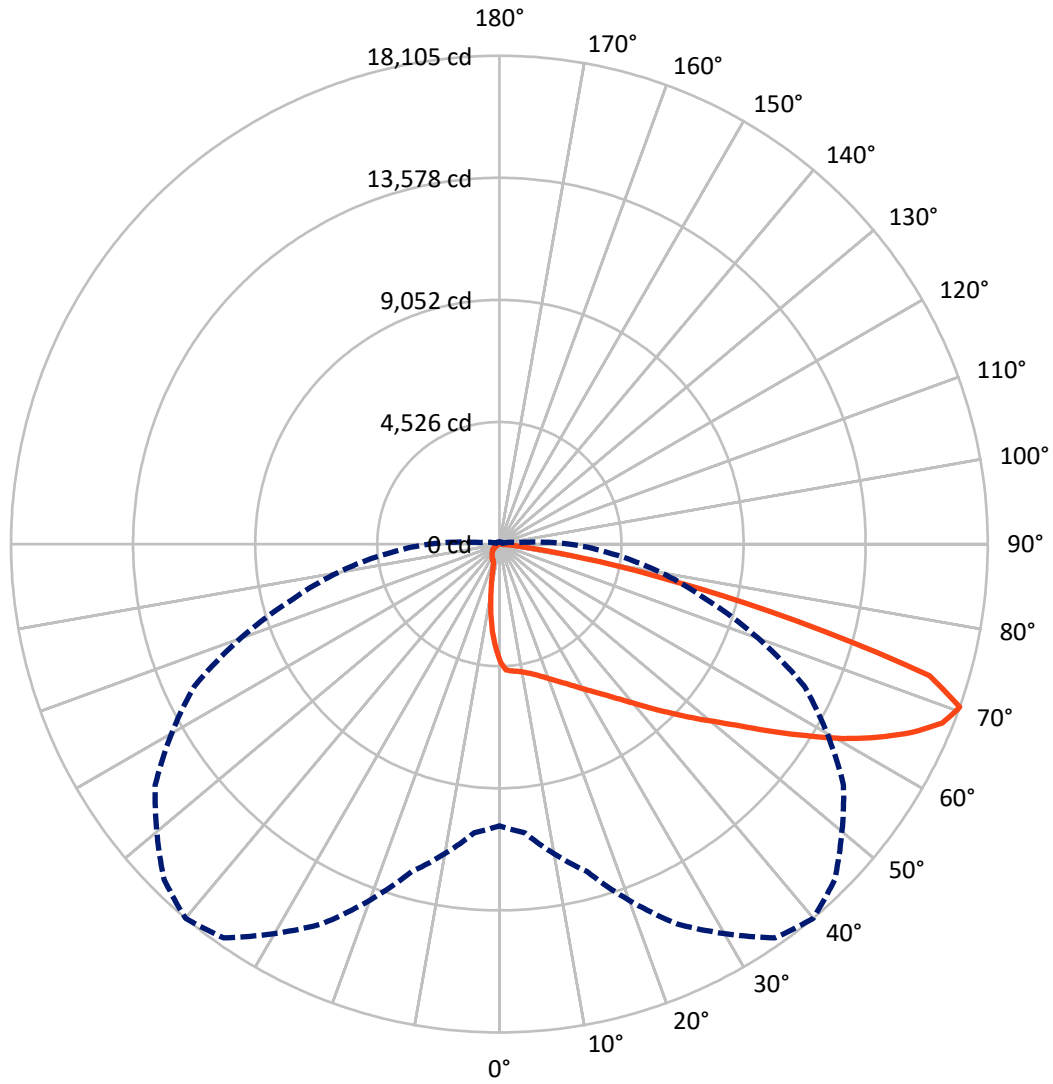
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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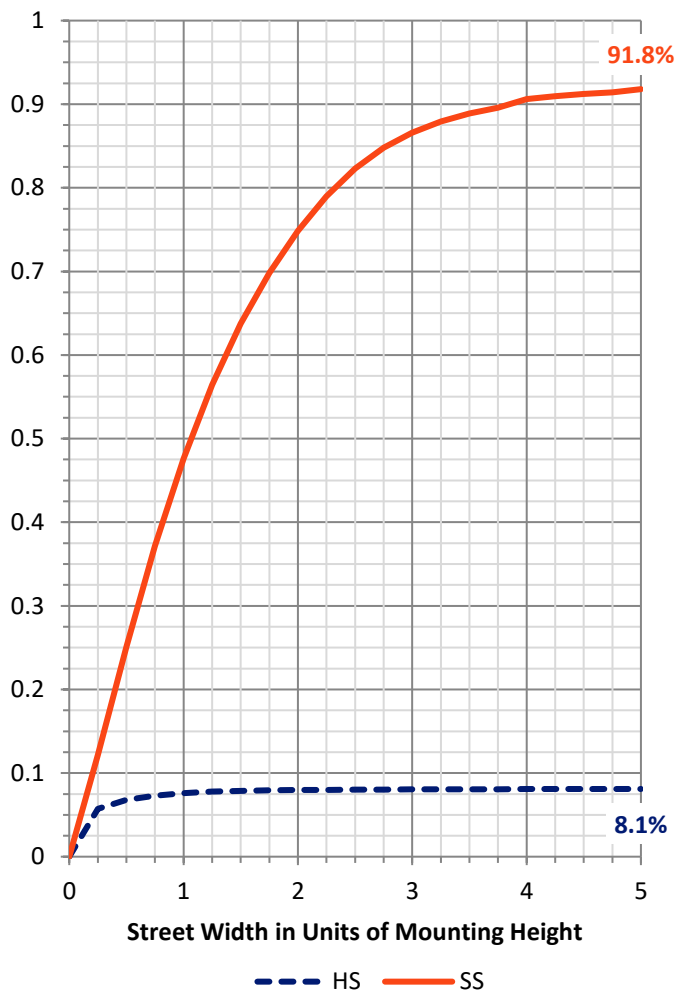
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2101.7	0.0	2101.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	23599.9	0.0	23599.9
	% Fixture	91.8	0.0	91.8
Total	Lumens	25701.6	0.0	25701.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	1.4
10°-20°	934.9	3.6
20°-30°	1564.7	6.1
30°-40°	2457.6	9.6
40°-50°	3887.3	15.1
50°-60°	5670.5	22.1
60°-70°	7029.4	27.4
70°-80°	3556.5	13.8
80°-90°	232.2	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°	25701.6	100.0
0°-180°	25701.6	100.0

Coefficient of Utilization



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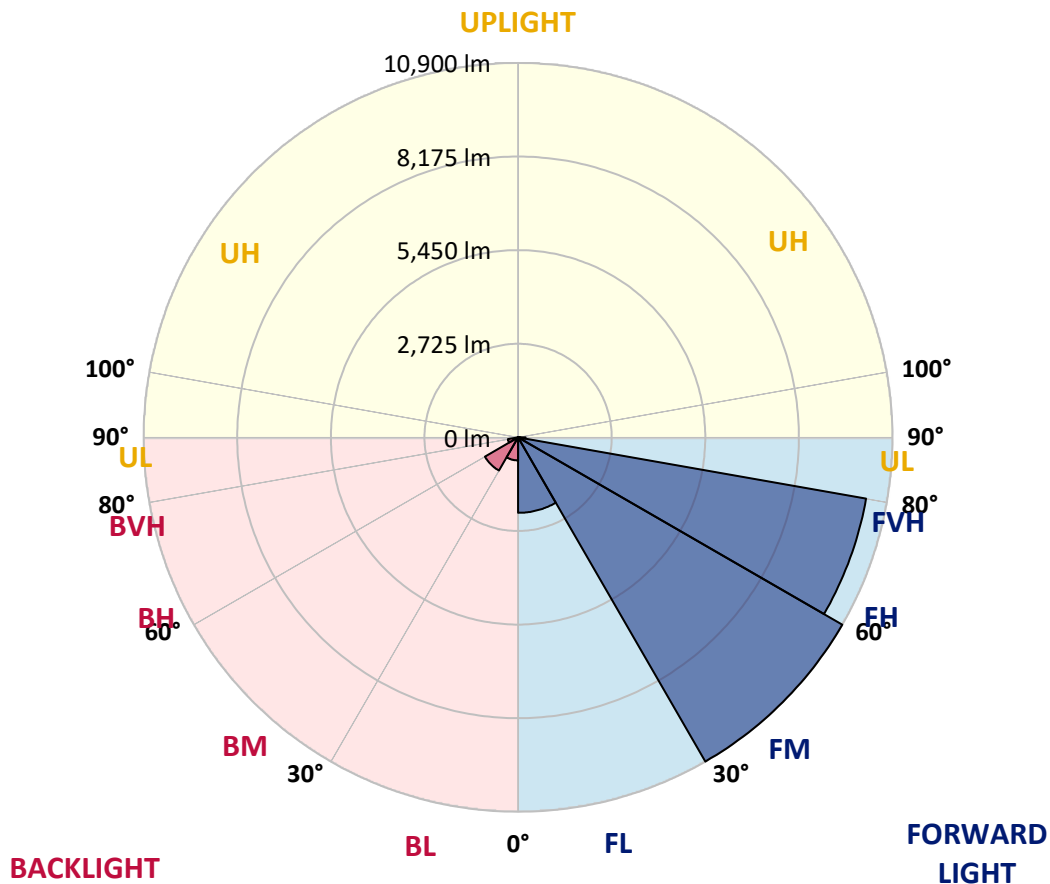
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.0	8.5			
FM (30°-60°)	10899.8	42.4			
FH (60°-80°)	10286.2	40.0			G4/12000
FVH (80°-90°)	216.9	0.8			G2/225
BL (0°-30°)	671.2	2.6	B2/1000		
BM (30°-60°)	1115.6	4.3	B2/2500		
BH (60°-80°)	299.7	1.2	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3
2.5°	4688.6	4705.0	4702.7	4709.7	4693.3	4667.6	4662.9	4627.8	4564.7	4485.2	4396.3
5°	4784.5	4803.2	4789.2	4782.2	4751.8	4723.7	4716.7	4679.3	4606.8	4499.2	4344.9
7.5°	4866.4	4871.0	4861.7	4845.3	4800.9	4763.5	4737.7	4686.3	4599.8	4492.2	4314.5
10°	4880.4	4878.1	4882.7	4885.1	4857.0	4824.3	4803.2	4733.1	4623.2	4508.6	4316.8
12.5°	4864.0	4864.0	4894.4	4929.5	4929.5	4913.1	4892.1	4828.9	4700.3	4564.7	4363.6
15°	4885.1	4892.1	4950.5	5016.0	5037.1	5020.7	5011.3	4945.9	4812.6	4662.9	4447.8
17.5°	4959.9	4966.9	5060.5	5158.7	5184.4	5165.7	5147.0	5081.5	4938.9	4775.2	4543.7
20°	5069.8	5088.5	5207.8	5334.1	5357.4	5334.1	5296.6	5205.4	5062.8	4896.8	4634.9
22.5°	5270.9	5282.6	5411.2	5544.5	5556.2	5518.8	5462.7	5336.4	5186.7	5025.4	4737.7
25°	5537.5	5553.9	5682.5	5811.1	5780.7	5724.6	5647.4	5504.8	5334.1	5177.4	4868.7
27.5°	5855.5	5874.2	6000.5	6112.8	6033.3	5967.8	5881.3	5703.5	5530.5	5387.8	5037.1
30°	6199.3	6215.7	6327.9	6428.5	6323.2	6246.1	6143.2	5960.8	5785.4	5677.8	5275.6
32.5°	6531.4	6529.0	6636.6	6718.4	6610.9	6550.1	6456.5	6271.8	6131.5	6084.7	5631.0
35°	6840.0	6840.0	6928.9	7010.7	6933.6	6900.8	6814.3	6667.0	6587.5	6643.6	6105.8
37.5°	7151.1	7134.7	7218.9	7310.1	7303.1	7305.4	7256.3	7186.1	7190.8	7389.6	6758.2
40°	7408.3	7401.3	7499.5	7618.7	7712.3	7787.1	7756.7	7782.4	7929.8	8301.6	7593.0
42.5°	7614.1	7630.4	7756.7	7946.1	8182.3	8334.3	8355.4	8460.6	8839.4	9414.7	8535.4
45°	7850.3	7852.6	8028.0	8318.0	8694.4	8935.3	9019.5	9290.8	9828.6	10569.9	9569.0
47.5°	8140.2	8112.2	8308.6	8715.5	9260.4	9615.8	9765.5	10104.5	10937.0	11697.0	10410.9
50°	8460.6	8409.2	8631.3	9185.5	9894.1	10338.4	10642.4	11138.2	12036.1	12623.1	11037.6
52.5°	8832.4	8783.3	9035.9	9725.7	10654.1	11194.3	11584.8	12085.2	12978.5	13329.3	11411.8
55°	9304.8	9255.7	9522.3	10373.5	11552.1	12253.6	12662.8	13083.8	13855.5	13850.8	11683.0
57.5°	9828.6	9760.8	10130.3	11191.9	12672.2	13401.8	13818.0	14023.8	14521.9	14255.3	11865.4
60°	10429.6	10368.8	10880.9	12167.1	13965.4	14641.2	14903.1	14818.9	15069.1	14493.9	11802.3
62.5°	10972.1	10944.1	11580.1	13200.7	15197.7	15768.3	15840.8	15473.7	15471.3	14498.5	11376.7
65°	11535.7	11589.5	12534.2	14391.0	16437.1	16820.6	16696.7	16123.8	15632.7	13925.6	10118.6
67.5°	11746.2	11902.8	13163.3	15466.7	17414.6	17713.9	17496.5	16448.8	14961.6	11998.7	7705.3
70°	10446.0	10740.6	12569.3	15527.5	17819.2	18104.5	17583.0	15574.2	12473.4	7948.5	4220.9
72.5°	7943.8	8287.6	10474.0	12714.3	16025.6	16675.7	15784.7	12688.6	8039.7	3482.0	1417.1
75°	4445.4	4817.3	7801.1	9573.7	10759.3	11353.3	11025.9	8140.2	3561.5	909.7	423.3
77.5°	1503.6	1627.6	3629.3	5923.4	7101.9	6568.8	5560.9	4043.2	1309.5	346.1	224.5
80°	891.0	937.7	1351.6	2948.8	3736.9	3098.5	2446.0	1494.3	666.5	184.7	156.7
82.5°	266.6	315.7	746.0	1094.4	1463.9	912.0	771.7	853.5	346.1	100.6	131.0
85°	0.0	0.0	159.0	339.1	383.5	149.7	149.7	484.1	63.1	42.1	95.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	11.7	7.0	9.4	21.0
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°	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3	4361.3
2.5°	4333.2	4251.3	4155.5	4064.3	3977.7	3865.5	3811.7	3746.2	3690.1	3659.7	3676.1
5°	4246.7	4118.1	3921.6	3722.9	3521.7	3332.3	3161.6	3047.0	2944.1	2890.4	2902.0
7.5°	4171.8	3998.8	3692.4	3367.4	3044.7	2719.6	2455.4	2249.6	2090.6	2025.1	2013.4
10°	4139.1	3921.6	3489.0	3021.3	2525.6	2088.3	1714.1	1487.3	1325.9	1246.4	1260.4
12.5°	4155.5	3881.9	3316.0	2682.2	2039.1	1529.4	1171.6	958.8	844.2	797.4	785.7
15°	4202.2	3872.5	3161.6	2336.1	1573.8	1068.7	809.1	722.6	699.2	694.5	694.5
17.5°	4256.0	3874.9	3002.6	1985.4	1195.0	792.7	692.2	675.8	668.8	664.1	666.5
20°	4309.8	3874.9	2820.2	1629.9	898.0	685.2	659.4	647.8	640.7	638.4	638.4
22.5°	4375.3	3874.9	2616.8	1300.2	720.2	650.1	629.0	622.0	615.0	612.7	610.3
25°	4454.8	3877.2	2392.3	1017.2	654.8	619.7	603.3	596.3	589.3	584.6	584.6
27.5°	4569.4	3895.9	2144.4	792.7	617.4	591.6	577.6	570.6	563.6	556.6	556.6
30°	4735.4	3942.7	1866.1	654.8	582.3	561.2	547.2	542.5	535.5	528.5	526.2
32.5°	4983.3	4024.5	1578.5	587.0	549.5	528.5	512.1	507.4	500.4	493.4	491.1
35°	5329.4	4174.2	1297.9	544.9	507.4	486.4	477.0	474.7	465.4	458.3	458.3
37.5°	5836.8	4417.4	1028.9	502.8	472.4	456.0	444.3	439.6	430.3	423.3	420.9
40°	6456.5	4733.1	799.8	470.0	439.6	423.3	411.6	404.6	392.9	383.5	378.8
42.5°	7246.9	5118.9	631.4	435.0	409.2	392.9	383.5	369.5	353.1	339.1	336.7
45°	8070.1	5516.5	521.5	402.2	381.2	367.1	355.4	336.7	313.4	297.0	292.3
47.5°	8701.5	5764.3	456.0	367.1	350.8	339.1	325.0	301.7	273.6	254.9	250.2
50°	9152.8	5801.8	406.9	334.4	325.0	313.4	292.3	264.2	233.8	215.1	210.5
52.5°	9374.9	5633.4	367.1	304.0	297.0	285.3	259.6	229.2	196.4	177.7	173.0
55°	9475.5	5315.4	329.7	278.3	268.9	254.9	226.8	194.1	161.4	145.0	140.3
57.5°	9435.7	4845.3	297.0	252.6	240.9	224.5	194.1	159.0	133.3	116.9	114.6
60°	9141.1	4185.9	264.2	226.8	212.8	194.1	163.7	131.0	107.6	95.9	93.5
62.5°	8505.0	3367.4	231.5	196.4	187.1	168.4	140.3	107.6	88.9	81.8	79.5
65°	7202.5	2380.6	198.8	166.0	161.4	142.6	116.9	88.9	77.2	72.5	70.2
67.5°	5177.4	1447.5	168.4	142.6	138.0	121.6	98.2	77.2	70.2	67.8	67.8
70°	2602.7	685.2	133.3	116.9	116.9	100.6	84.2	70.2	67.8	65.5	65.5
72.5°	883.9	292.3	100.6	91.2	95.9	86.5	72.5	65.5	65.5	65.5	65.5
75°	301.7	154.3	70.2	65.5	70.2	70.2	63.1	63.1	65.5	65.5	65.5
77.5°	196.4	102.9	49.1	44.4	53.8	53.8	53.8	58.5	63.1	63.1	63.1
80°	161.4	56.1	32.7	30.4	39.8	39.8	44.4	53.8	58.5	58.5	58.5
82.5°	138.0	35.1	18.7	21.0	28.1	30.4	37.4	44.4	51.4	53.8	53.8
85°	93.5	18.7	14.0	16.4	18.7	23.4	30.4	37.4	42.1	46.8	46.8
87.5°	25.7	7.0	9.4	11.7	11.7	16.4	23.4	28.1	32.7	35.1	35.1
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)