

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: P638697

Luminaire Tested: GWS-SA4F-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638697
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-SA4F-735-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26441 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

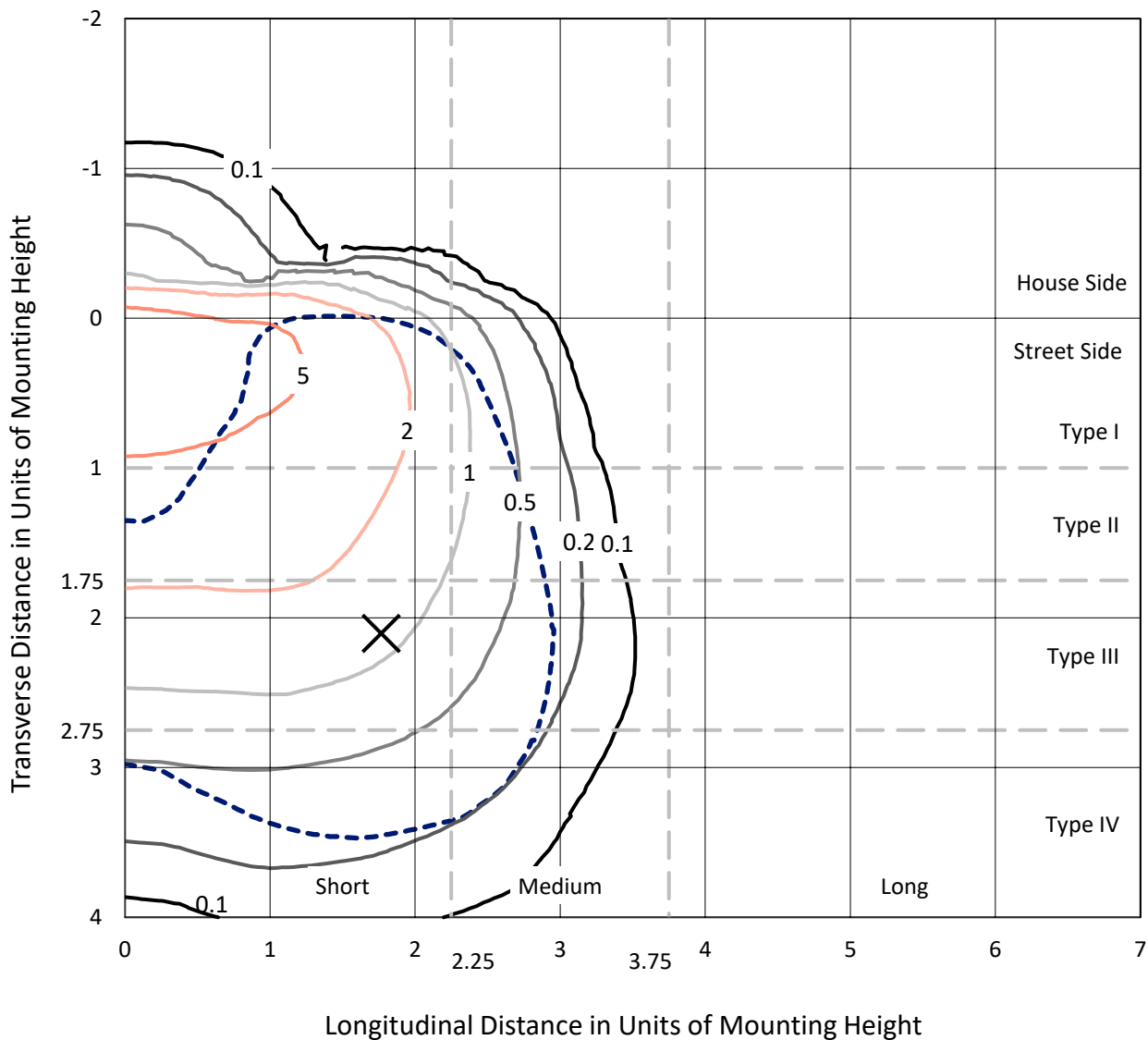
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

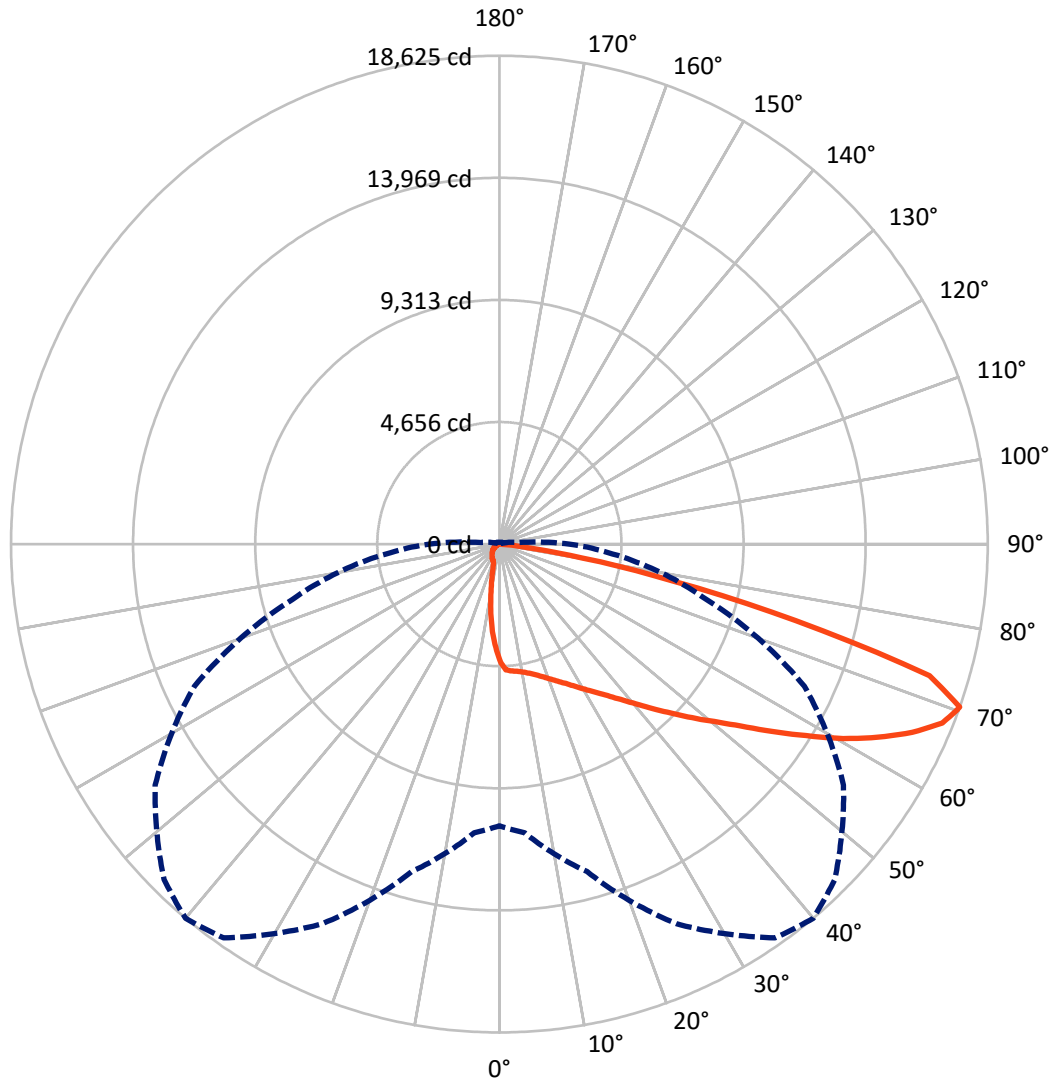
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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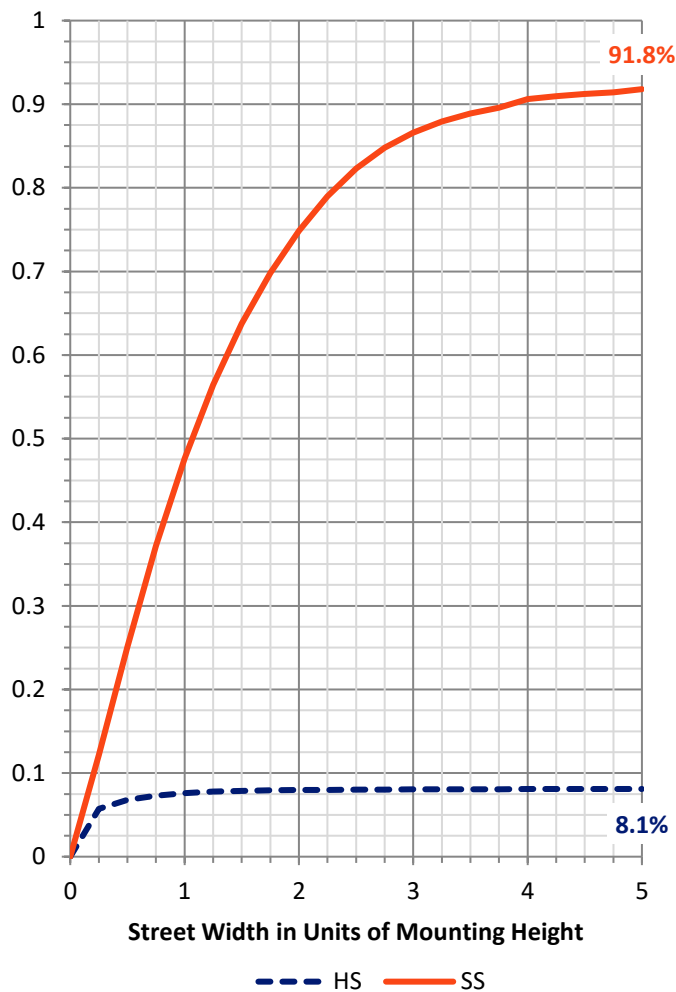
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2162.2	0.0	2162.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	24278.8	0.0	24278.8
	% Fixture	91.8	0.0	91.8
Total	Lumens	26441.0	0.0	26441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.4
10°-20°	961.8	3.6
20°-30°	1609.7	6.1
30°-40°	2528.3	9.6
40°-50°	3999.1	15.1
50°-60°	5833.7	22.1
60°-70°	7231.6	27.4
70°-80°	3658.8	13.8
80°-90°	238.9	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°	26441.0	100.0
0°-180°	26441.0	100.0

Coefficient of Utilization



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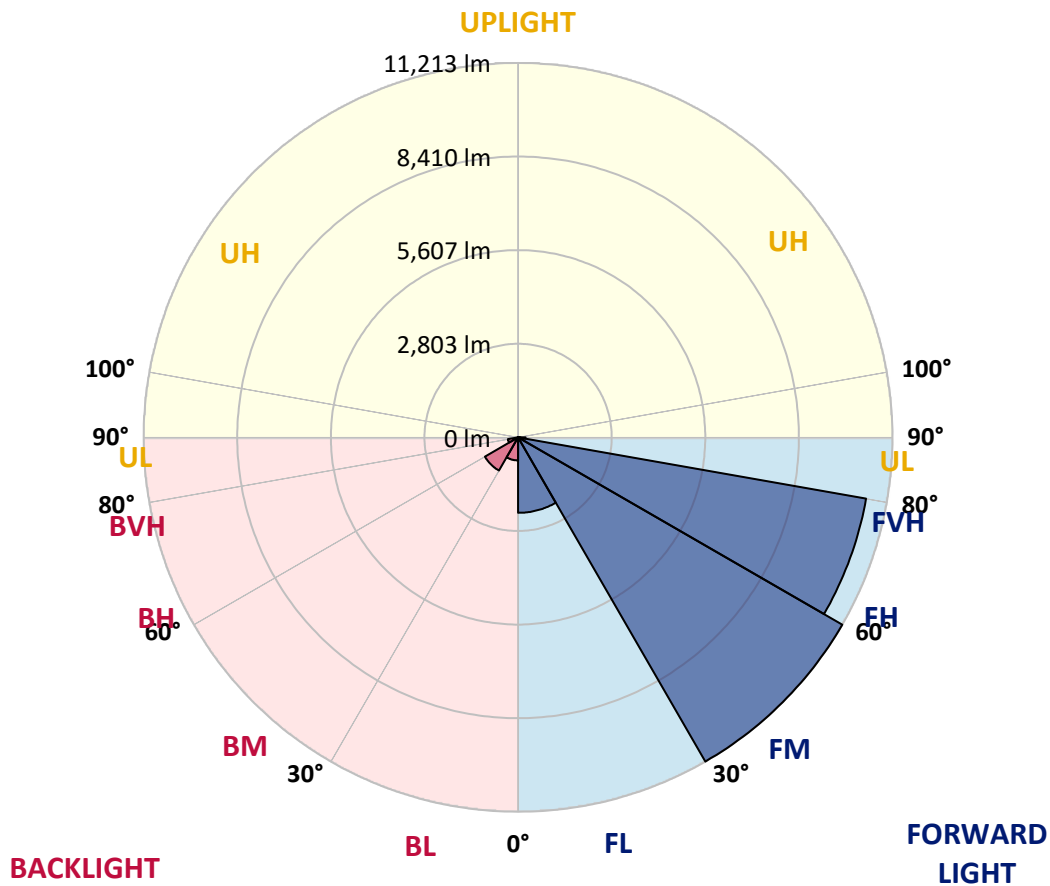
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.2	8.5			
FM (30°-60°)	11213.3	42.4			
FH (60°-80°)	10582.1	40.0			G4/12000
FVH (80°-90°)	223.1	0.8			G2/225
BL (0°-30°)	690.5	2.6	B2/1000		
BM (30°-60°)	1147.7	4.3	B2/2500		
BH (60°-80°)	308.3	1.2	B1/500		G1/500
BVH (80°-90°)	15.8	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°	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7
2.5°	4823.5	4840.4	4838.0	4845.2	4828.3	4801.9	4797.1	4761.0	4696.0	4614.2	4522.8
5°	4922.2	4941.4	4927.0	4919.8	4888.5	4859.6	4852.4	4813.9	4739.3	4628.7	4469.9
7.5°	5006.4	5011.2	5001.6	4984.7	4939.0	4900.5	4874.0	4821.1	4732.1	4621.4	4438.6
10°	5020.8	5018.4	5023.2	5025.6	4996.7	4963.1	4941.4	4869.2	4756.2	4638.3	4441.0
12.5°	5004.0	5004.0	5035.2	5071.3	5071.3	5054.5	5032.8	4967.9	4835.6	4696.0	4489.1
15°	5025.6	5032.8	5093.0	5160.3	5182.0	5165.1	5155.5	5088.2	4951.0	4797.1	4575.7
17.5°	5102.6	5109.8	5206.0	5307.1	5333.5	5314.3	5295.1	5227.7	5080.9	4912.5	4674.4
20°	5215.7	5234.9	5357.6	5487.5	5511.6	5487.5	5449.0	5355.2	5208.4	5037.6	4768.2
22.5°	5422.6	5434.6	5566.9	5704.0	5716.1	5677.6	5619.8	5489.9	5335.9	5170.0	4874.0
25°	5696.8	5713.7	5846.0	5978.3	5947.0	5889.3	5809.9	5663.1	5487.5	5326.3	5008.8
27.5°	6024.0	6043.2	6173.2	6288.6	6206.8	6139.5	6050.5	5867.6	5689.6	5542.8	5182.0
30°	6377.6	6394.5	6510.0	6613.4	6505.1	6425.8	6319.9	6132.3	5951.8	5841.2	5427.4
32.5°	6719.3	6716.8	6827.5	6911.7	6801.1	6738.5	6642.3	6452.2	6307.9	6259.8	5793.0
35°	7036.8	7036.8	7128.2	7212.4	7133.0	7099.4	7010.4	6858.8	6777.0	6834.7	6281.4
37.5°	7356.8	7339.9	7426.5	7520.4	7513.2	7515.6	7465.0	7392.9	7397.7	7602.2	6952.6
40°	7621.4	7614.2	7715.2	7837.9	7934.2	8011.1	7979.9	8006.3	8157.9	8540.4	7811.5
42.5°	7833.1	7850.0	7979.9	8174.7	8417.7	8574.1	8595.7	8704.0	9093.7	9685.5	8781.0
45°	8076.1	8078.5	8258.9	8557.2	8944.6	9192.4	9279.0	9558.0	10111.4	10874.0	9844.3
47.5°	8374.4	8345.5	8547.6	8966.2	9526.8	9892.4	10046.4	10395.2	11251.7	12033.6	10710.4
50°	8704.0	8651.1	8879.6	9449.8	10178.7	10635.8	10948.6	11458.6	12382.4	12986.2	11355.1
52.5°	9086.5	9036.0	9295.8	10005.5	10960.6	11516.3	11918.1	12432.9	13351.9	13712.8	11740.1
55°	9572.5	9522.0	9796.2	10671.9	11884.4	12606.1	13027.1	13460.2	14254.1	14249.2	12019.1
57.5°	10111.4	10041.6	10421.7	11513.9	13036.8	13787.3	14215.6	14427.3	14939.7	14665.4	12206.8
60°	10729.6	10667.1	11193.9	12517.1	14367.1	15062.4	15331.8	15245.2	15502.6	14910.8	12141.8
62.5°	11287.8	11258.9	11913.3	13580.4	15635.0	16222.0	16296.5	15918.8	15916.4	14915.6	11704.0
65°	11867.6	11922.9	12894.8	14805.0	16910.0	17304.5	17177.0	16587.6	16082.4	14326.2	10409.7
67.5°	12084.1	12245.3	13542.0	15911.6	17915.6	18223.5	17999.8	16922.0	15392.0	12343.9	7926.9
70°	10746.5	11049.6	12930.9	15974.2	18331.8	18625.3	18088.8	16022.3	12832.3	8177.1	4342.4
72.5°	8172.3	8526.0	10775.3	13080.1	16486.6	17155.4	16238.8	13053.6	8271.0	3582.2	1457.9
75°	4573.3	4955.8	8025.6	9849.1	11068.8	11679.9	11343.1	8374.4	3664.0	935.8	435.4
77.5°	1546.9	1674.4	3733.7	6093.8	7306.3	6757.7	5720.9	4159.5	1347.2	356.1	231.0
80°	916.6	964.7	1390.5	3033.6	3844.4	3187.6	2516.4	1537.3	685.6	190.1	161.2
82.5°	274.3	324.8	767.4	1125.9	1506.0	938.2	793.9	878.1	356.1	103.4	134.7
85°	0.0	0.0	163.6	348.8	394.5	154.0	154.0	498.0	65.0	43.3	98.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	12.0	7.2	9.6	21.7
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°	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7	4486.7
2.5°	4457.9	4373.7	4275.0	4181.2	4092.2	3976.7	3921.4	3854.0	3796.3	3765.0	3781.8
5°	4368.8	4236.5	4034.4	3830.0	3623.1	3428.2	3252.6	3134.7	3028.8	2973.5	2985.5
7.5°	4291.9	4113.8	3798.7	3464.3	3132.3	2797.9	2526.0	2314.3	2150.7	2083.4	2071.3
10°	4258.2	4034.4	3589.4	3108.2	2598.2	2148.3	1763.4	1530.1	1364.1	1282.3	1296.7
12.5°	4275.0	3993.5	3411.4	2759.4	2097.8	1573.4	1205.3	986.4	868.5	820.4	808.3
15°	4323.1	3983.9	3252.6	2403.3	1619.1	1099.4	832.4	743.4	719.3	714.5	714.5
17.5°	4378.5	3986.3	3089.0	2042.5	1229.3	815.5	712.1	695.3	688.0	683.2	685.6
20°	4433.8	3986.3	2901.3	1676.8	923.8	704.9	678.4	666.4	659.2	656.8	656.8
22.5°	4501.2	3986.3	2692.0	1337.6	741.0	668.8	647.1	639.9	632.7	630.3	627.9
25°	4583.0	3988.7	2461.1	1046.5	673.6	637.5	620.7	613.5	606.2	601.4	601.4
27.5°	4700.8	4008.0	2206.1	815.5	635.1	608.7	594.2	587.0	579.8	572.6	572.6
30°	4871.6	4056.1	1919.8	673.6	599.0	577.4	562.9	558.1	550.9	543.7	541.3
32.5°	5126.6	4140.3	1623.9	603.8	565.4	543.7	526.9	522.0	514.8	507.6	505.2
35°	5482.7	4294.3	1335.2	560.5	522.0	500.4	490.8	488.4	478.7	471.5	471.5
37.5°	6004.7	4544.5	1058.5	517.2	486.0	469.1	457.1	452.3	442.7	435.4	433.0
40°	6642.3	4869.2	822.8	483.6	452.3	435.4	423.4	416.2	404.2	394.5	389.7
42.5°	7455.4	5266.2	649.6	447.5	421.0	404.2	394.5	380.1	363.3	348.8	346.4
45°	8302.2	5675.2	536.5	413.8	392.1	377.7	365.7	346.4	322.4	305.5	300.7
47.5°	8951.8	5930.2	469.1	377.7	360.9	348.8	334.4	310.3	281.5	262.2	257.4
50°	9416.1	5968.7	418.6	344.0	334.4	322.4	300.7	271.8	240.6	221.3	216.5
52.5°	9644.6	5795.4	377.7	312.7	305.5	293.5	267.0	235.8	202.1	182.8	178.0
55°	9748.1	5468.3	339.2	286.3	276.7	262.2	233.4	199.7	166.0	149.2	144.3
57.5°	9707.2	4984.7	305.5	259.8	247.8	231.0	199.7	163.6	137.1	120.3	117.9
60°	9404.1	4306.3	271.8	233.4	218.9	199.7	168.4	134.7	110.7	98.6	96.2
62.5°	8749.7	3464.3	238.2	202.1	192.5	173.2	144.3	110.7	91.4	84.2	81.8
65°	7409.7	2449.1	204.5	170.8	166.0	146.8	120.3	91.4	79.4	74.6	72.2
67.5°	5326.3	1489.2	173.2	146.8	141.9	125.1	101.0	79.4	72.2	69.8	69.8
70°	2677.6	704.9	137.1	120.3	120.3	103.4	86.6	72.2	69.8	67.4	67.4
72.5°	909.4	300.7	103.4	93.8	98.6	89.0	74.6	67.4	67.4	67.4	67.4
75°	310.3	158.8	72.2	67.4	72.2	72.2	65.0	65.0	67.4	67.4	67.4
77.5°	202.1	105.9	50.5	45.7	55.3	55.3	55.3	60.1	65.0	65.0	65.0
80°	166.0	57.7	33.7	31.3	40.9	40.9	45.7	55.3	60.1	60.1	60.1
82.5°	141.9	36.1	19.2	21.7	28.9	31.3	38.5	45.7	52.9	55.3	55.3
85°	96.2	19.2	14.4	16.8	19.2	24.1	31.3	38.5	43.3	48.1	48.1
87.5°	26.5	7.2	9.6	12.0	12.0	16.8	24.1	28.9	33.7	36.1	36.1
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)