

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: P638202

Luminaire Tested: GWS-SA4E-735-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638202
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-SA4E-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: 23781.7 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

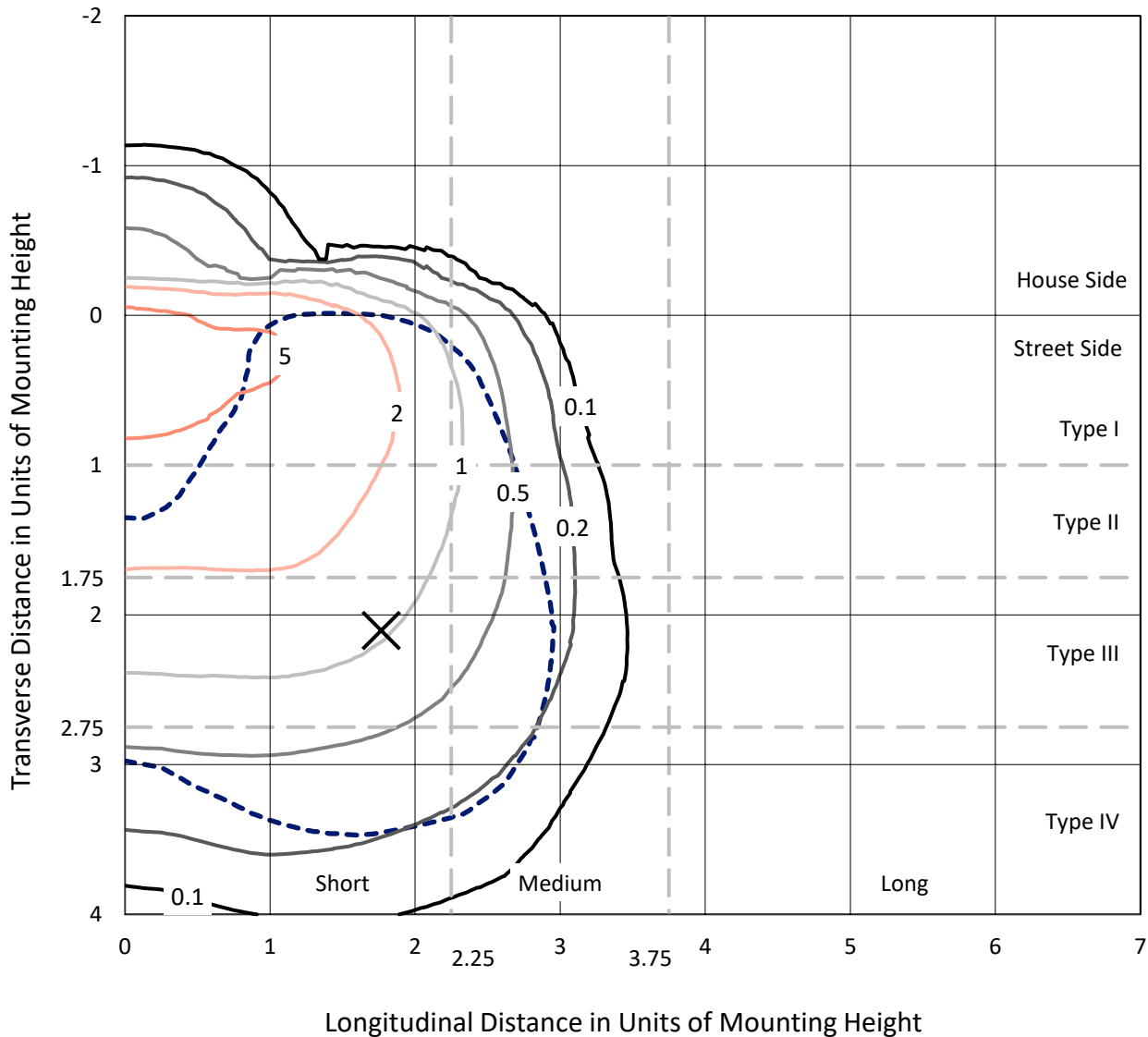
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

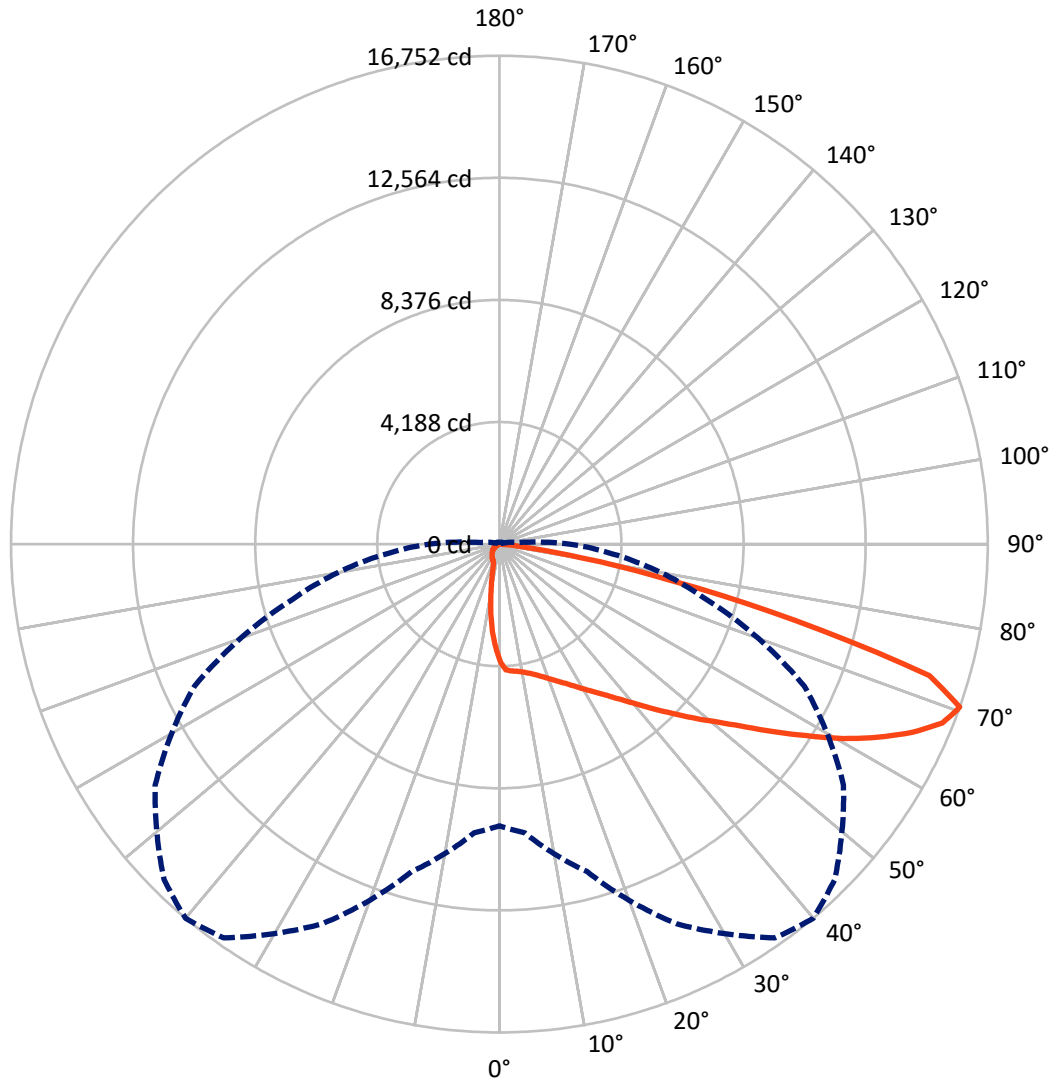
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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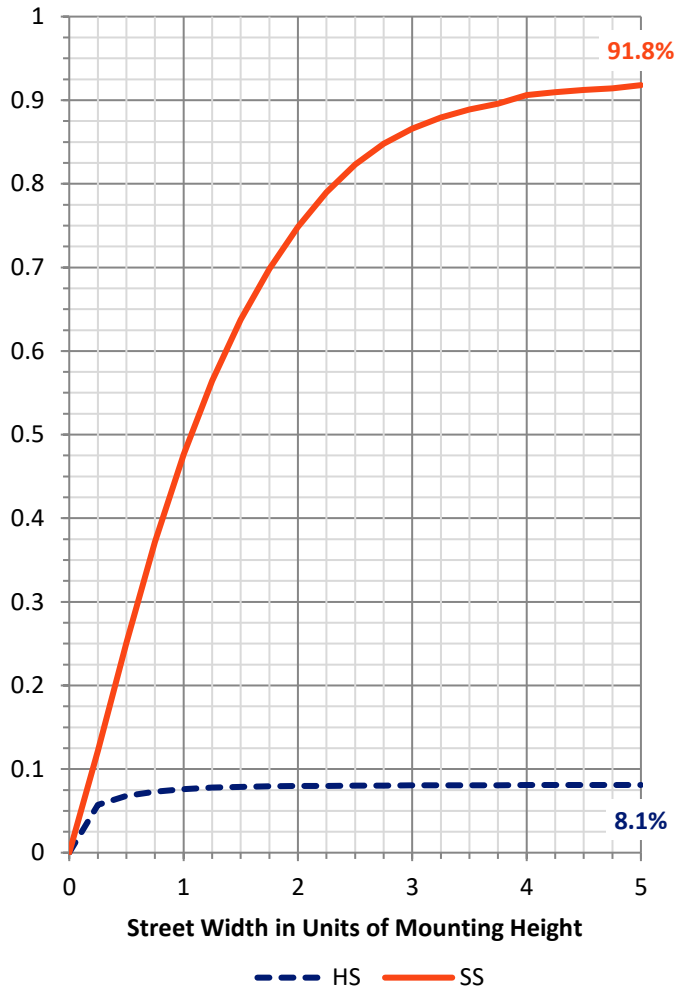
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1944.7	0.0	1944.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	21837.0	0.0	21837.0
	% Fixture	91.8	0.0	91.8
Total	Lumens	23781.7	0.0	23781.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.1	1.4
10°-20°	865.0	3.6
20°-30°	1447.8	6.1
30°-40°	2274.0	9.6
40°-50°	3596.9	15.1
50°-60°	5246.9	22.1
60°-70°	6504.3	27.4
70°-80°	3290.8	13.8
80°-90°	214.8	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°	23781.7	100.0
0°-180°	23781.7	100.0

Coefficient of Utilization



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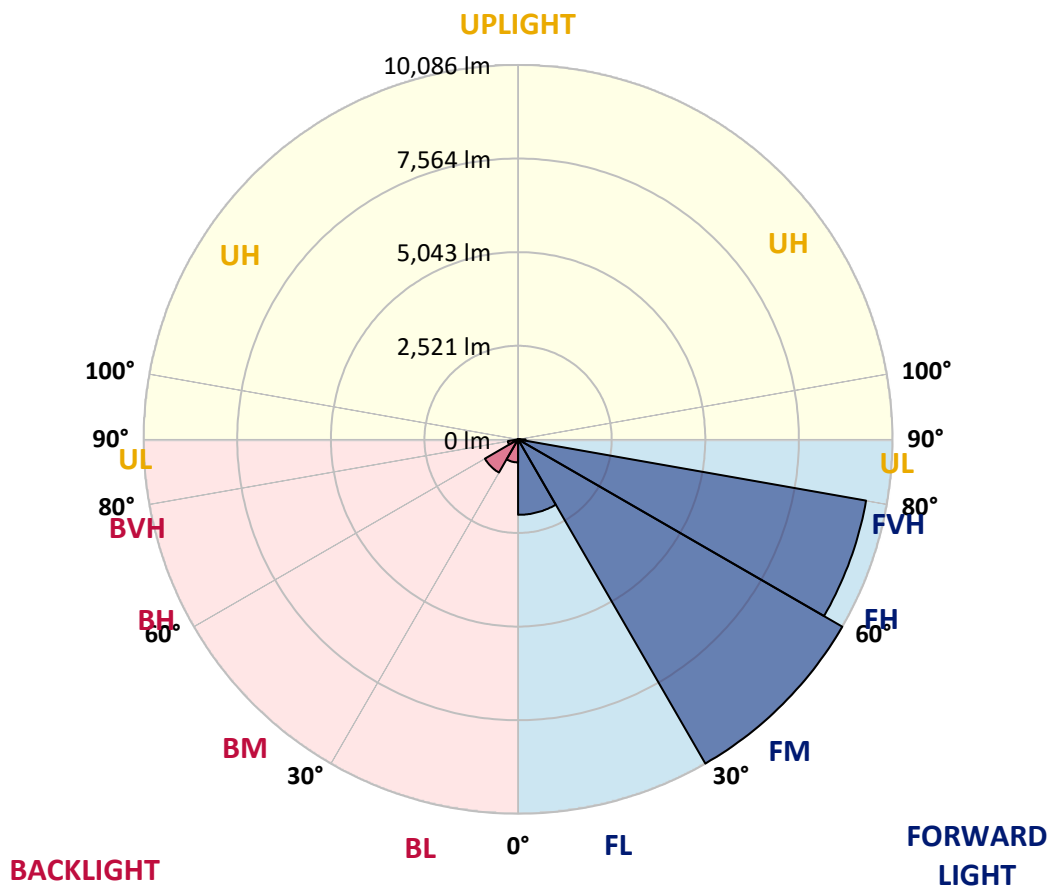
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.9	8.5			
FM (30°-60°)	10085.5	42.4			
FH (60°-80°)	9517.9	40.0			G4/12000
FVH (80°-90°)	200.7	0.8			G2/225
BL (0°-30°)	621.0	2.6	B2/1000		
BM (30°-60°)	1032.2	4.3	B2/2500		
BH (60°-80°)	277.3	1.2	B1/500		G1/500
BVH (80°-90°)	14.2	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°	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5
2.5°	4338.4	4353.5	4351.4	4357.9	4342.7	4318.9	4314.6	4282.1	4223.7	4150.2	4067.9
5°	4427.1	4444.4	4431.4	4425.0	4396.8	4370.9	4364.4	4329.7	4262.7	4163.1	4020.3
7.5°	4502.8	4507.2	4498.5	4483.4	4442.3	4407.6	4383.8	4336.2	4256.2	4156.6	3992.2
10°	4515.8	4513.7	4518.0	4520.2	4494.2	4463.9	4444.4	4379.5	4277.8	4171.8	3994.4
12.5°	4500.7	4500.7	4528.8	4561.3	4561.3	4546.1	4526.6	4468.2	4349.2	4223.7	4037.6
15°	4520.2	4526.6	4580.7	4641.3	4660.8	4645.7	4637.0	4576.4	4453.1	4314.6	4115.5
17.5°	4589.4	4595.9	4682.4	4773.3	4797.1	4779.8	4762.5	4701.9	4569.9	4418.5	4204.2
20°	4691.1	4708.4	4818.8	4935.6	4957.2	4935.6	4901.0	4816.6	4684.6	4531.0	4288.6
22.5°	4877.2	4888.0	5007.0	5130.3	5141.2	5106.5	5054.6	4937.8	4799.3	4650.0	4383.8
25°	5123.9	5139.0	5258.0	5377.0	5348.9	5297.0	5225.6	5093.6	4935.6	4790.6	4505.0
27.5°	5418.1	5435.4	5552.3	5656.1	5582.6	5522.0	5441.9	5277.5	5117.4	4985.4	4660.8
30°	5736.2	5751.4	5855.2	5948.3	5850.9	5779.5	5684.3	5515.5	5353.2	5253.7	4881.5
32.5°	6043.5	6041.3	6140.8	6216.6	6117.0	6060.8	5974.2	5803.3	5673.5	5630.2	5210.4
35°	6329.1	6329.1	6411.3	6487.0	6415.6	6385.3	6305.3	6169.0	6095.4	6147.3	5649.7
37.5°	6616.9	6601.7	6679.6	6764.0	6757.5	6759.7	6714.2	6649.3	6653.7	6837.6	6253.4
40°	6854.9	6848.4	6939.3	7049.6	7136.2	7205.4	7177.3	7201.1	7337.4	7681.5	7025.8
42.5°	7045.3	7060.4	7177.3	7352.6	7571.1	7711.7	7731.2	7828.6	8179.1	8711.4	7897.8
45°	7263.8	7266.0	7428.3	7696.6	8045.0	8267.8	8345.7	8596.7	9094.4	9780.3	8854.2
47.5°	7532.2	7506.2	7687.9	8064.4	8568.6	8897.5	9036.0	9349.7	10120.0	10823.3	9633.2
50°	7828.6	7781.0	7986.6	8499.4	9155.0	9566.1	9847.4	10306.1	11137.0	11680.1	10213.1
52.5°	8172.6	8127.2	8360.9	8999.2	9858.2	10358.1	10719.4	11182.5	12009.0	12333.6	10559.3
55°	8609.7	8564.3	8811.0	9598.6	10689.1	11338.3	11716.9	12106.4	12820.5	12816.1	10810.3
57.5°	9094.4	9031.7	9373.5	10355.9	11725.6	12400.7	12785.8	12976.3	13437.1	13190.5	10979.1
60°	9650.5	9594.2	10068.1	11258.2	12922.2	13547.5	13789.8	13711.9	13943.5	13411.2	10920.7
62.5°	10152.5	10126.5	10715.1	12214.6	14062.5	14590.4	14657.5	14317.8	14315.6	13415.5	10526.8
65°	10674.0	10723.7	11597.9	13316.0	15209.3	15564.1	15449.5	14919.3	14464.9	12885.4	9362.7
67.5°	10868.7	11013.7	12180.0	14311.3	16113.7	16390.7	16189.5	15220.1	13843.9	11102.4	7129.7
70°	9665.7	9938.3	11630.4	14367.6	16488.1	16752.1	16269.5	14410.8	11541.7	7354.7	3905.6
72.5°	7350.4	7668.5	9691.6	11764.5	14828.5	15430.0	14605.6	11740.7	7439.1	3221.9	1311.3
75°	4113.4	4457.4	7218.4	8858.6	9955.6	10505.2	10202.3	7532.2	3295.5	841.7	391.6
77.5°	1391.3	1506.0	3358.2	5480.9	6571.4	6078.1	5145.5	3741.2	1211.7	320.2	207.7
80°	824.4	867.7	1250.7	2728.5	3457.7	2867.0	2263.3	1382.7	616.7	170.9	145.0
82.5°	246.7	292.1	690.2	1012.7	1354.5	843.9	714.1	789.8	320.2	93.0	121.2
85°	0.0	0.0	147.1	313.7	354.9	138.5	138.5	447.9	58.4	38.9	88.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	10.8	6.5	8.7	19.5
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°	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5	4035.5
2.5°	4009.5	3933.8	3845.1	3760.7	3680.6	3576.7	3527.0	3466.4	3414.5	3386.3	3401.5
5°	3929.4	3810.4	3628.7	3444.8	3258.7	3083.4	2925.4	2819.4	2724.2	2674.4	2685.3
7.5°	3860.2	3700.1	3416.6	3115.9	2817.3	2516.5	2272.0	2081.6	1934.4	1873.8	1863.0
10°	3829.9	3628.7	3228.4	2795.6	2336.9	1932.3	1586.1	1376.2	1226.9	1153.3	1166.3
12.5°	3845.1	3591.9	3068.3	2481.9	1886.8	1415.1	1084.1	887.2	781.1	737.9	727.0
15°	3888.3	3583.2	2925.4	2161.6	1456.2	988.9	748.7	668.6	647.0	642.6	642.6
17.5°	3938.1	3585.4	2778.3	1837.1	1105.7	733.5	640.5	625.3	618.8	614.5	616.7
20°	3987.9	3585.4	2609.5	1508.2	830.9	634.0	610.2	599.4	592.9	590.7	590.7
22.5°	4048.5	3585.4	2421.3	1203.1	666.4	601.5	582.1	575.6	569.1	566.9	564.7
25°	4122.0	3587.6	2213.6	941.2	605.9	573.4	558.3	551.8	545.3	540.9	540.9
27.5°	4228.0	3604.9	1984.2	733.5	571.2	547.4	534.5	528.0	521.5	515.0	515.0
30°	4381.7	3648.2	1726.7	605.9	538.8	519.3	506.3	502.0	495.5	489.0	486.9
32.5°	4611.0	3723.9	1460.6	543.1	508.5	489.0	473.9	469.5	463.1	456.6	454.4
35°	4931.3	3862.4	1200.9	504.2	469.5	450.1	441.4	439.2	430.6	424.1	424.1
37.5°	5400.8	4087.4	952.1	465.2	437.1	421.9	411.1	406.8	398.1	391.6	389.5
40°	5974.2	4379.5	740.0	434.9	406.8	391.6	380.8	374.3	363.5	354.9	350.5
42.5°	6705.6	4736.5	584.2	402.5	378.7	363.5	354.9	341.9	326.7	313.7	311.6
45°	7467.2	5104.4	482.5	372.2	352.7	339.7	328.9	311.6	289.9	274.8	270.5
47.5°	8051.5	5333.7	421.9	339.7	324.6	313.7	300.8	279.1	253.2	235.9	231.5
50°	8469.1	5368.4	376.5	309.4	300.8	289.9	270.5	244.5	216.4	199.1	194.7
52.5°	8674.6	5212.6	339.7	281.3	274.8	264.0	240.2	212.1	181.8	164.4	160.1
55°	8767.7	4918.3	305.1	257.5	248.8	235.9	209.9	179.6	149.3	134.2	129.8
57.5°	8730.9	4483.4	274.8	233.7	222.9	207.7	179.6	147.1	123.3	108.2	106.0
60°	8458.3	3873.2	244.5	209.9	196.9	179.6	151.5	121.2	99.5	88.7	86.6
62.5°	7869.7	3115.9	214.2	181.8	173.1	155.8	129.8	99.5	82.2	75.7	73.6
65°	6664.5	2202.7	183.9	153.6	149.3	132.0	108.2	82.2	71.4	67.1	64.9
67.5°	4790.6	1339.4	155.8	132.0	127.7	112.5	90.9	71.4	64.9	62.7	62.7
70°	2408.3	634.0	123.3	108.2	108.2	93.0	77.9	64.9	62.7	60.6	60.6
72.5°	817.9	270.5	93.0	84.4	88.7	80.1	67.1	60.6	60.6	60.6	60.6
75°	279.1	142.8	64.9	60.6	64.9	64.9	58.4	58.4	60.6	60.6	60.6
77.5°	181.8	95.2	45.4	41.1	49.8	49.8	49.8	54.1	58.4	58.4	58.4
80°	149.3	51.9	30.3	28.1	36.8	36.8	41.1	49.8	54.1	54.1	54.1
82.5°	127.7	32.5	17.3	19.5	26.0	28.1	34.6	41.1	47.6	49.8	49.8
85°	86.6	17.3	13.0	15.1	17.3	21.6	28.1	34.6	38.9	43.3	43.3
87.5°	23.8	6.5	8.7	10.8	10.8	15.1	21.6	26.0	30.3	32.5	32.5
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)