

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: P638862

Luminaire Tested: GWS-SA4F-760-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638862
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27046.9 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

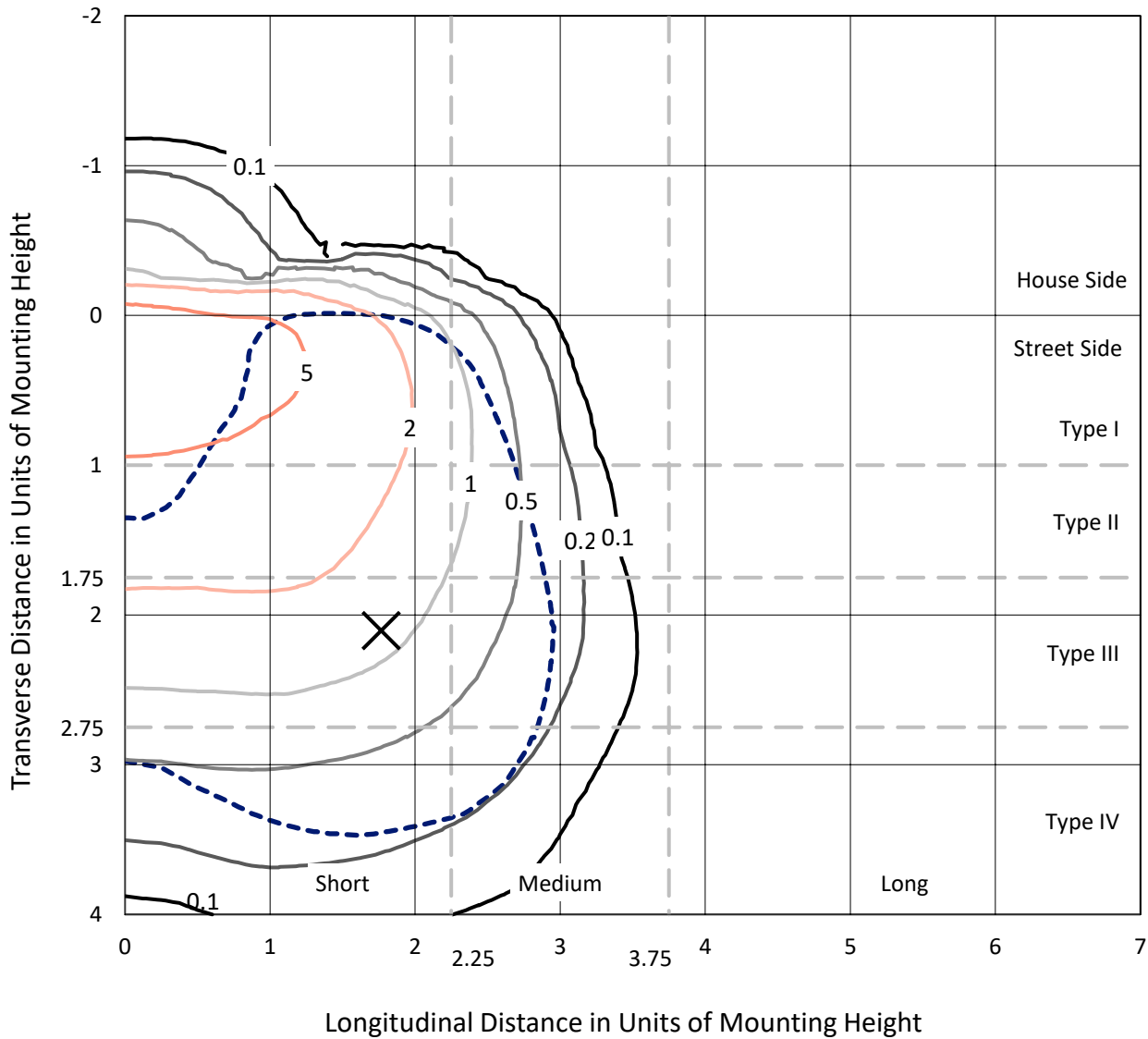
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

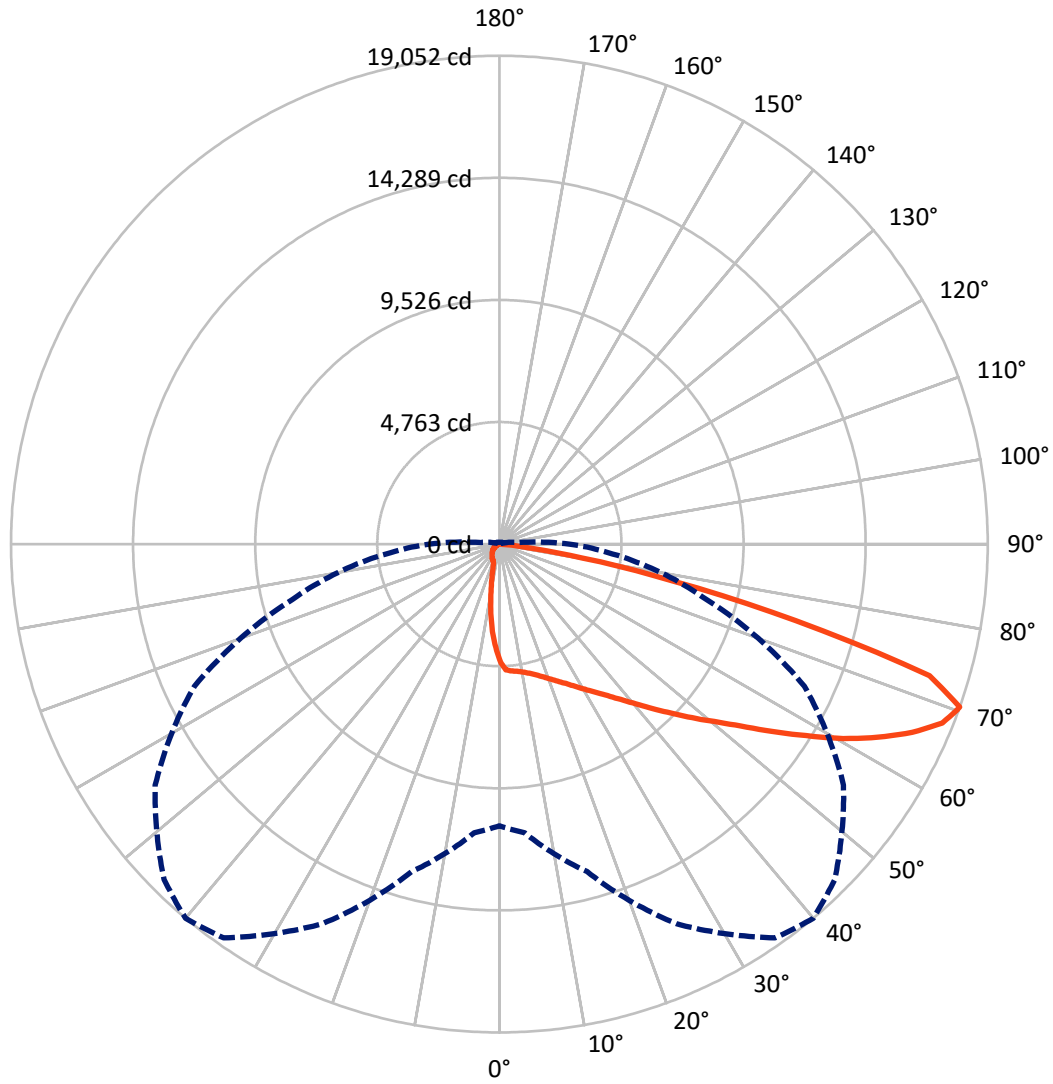
✕ Max cd
 - - - 1/2 Max cd



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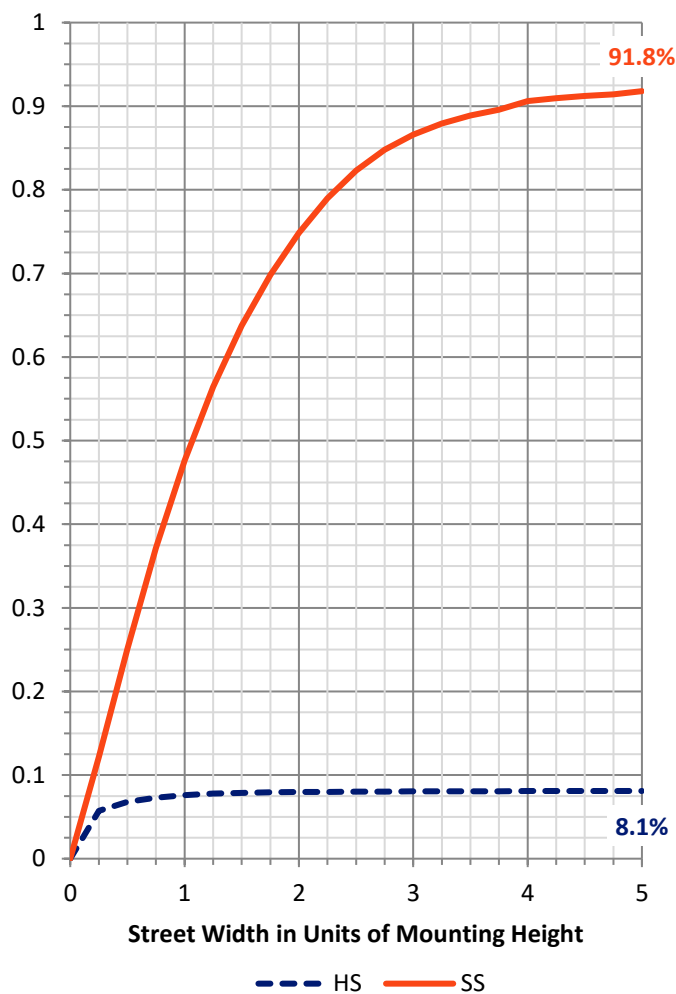
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2211.7	0.0	2211.7
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	24835.2	0.0	24835.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	27046.9	0.0	27046.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.9	1.4
10°-20°	983.8	3.6
20°-30°	1646.6	6.1
30°-40°	2586.2	9.6
40°-50°	4090.7	15.1
50°-60°	5967.3	22.1
60°-70°	7397.4	27.4
70°-80°	3742.6	13.8
80°-90°	244.3	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°	27046.9	100.0
0°-180°	27046.9	100.0

Coefficient of Utilization



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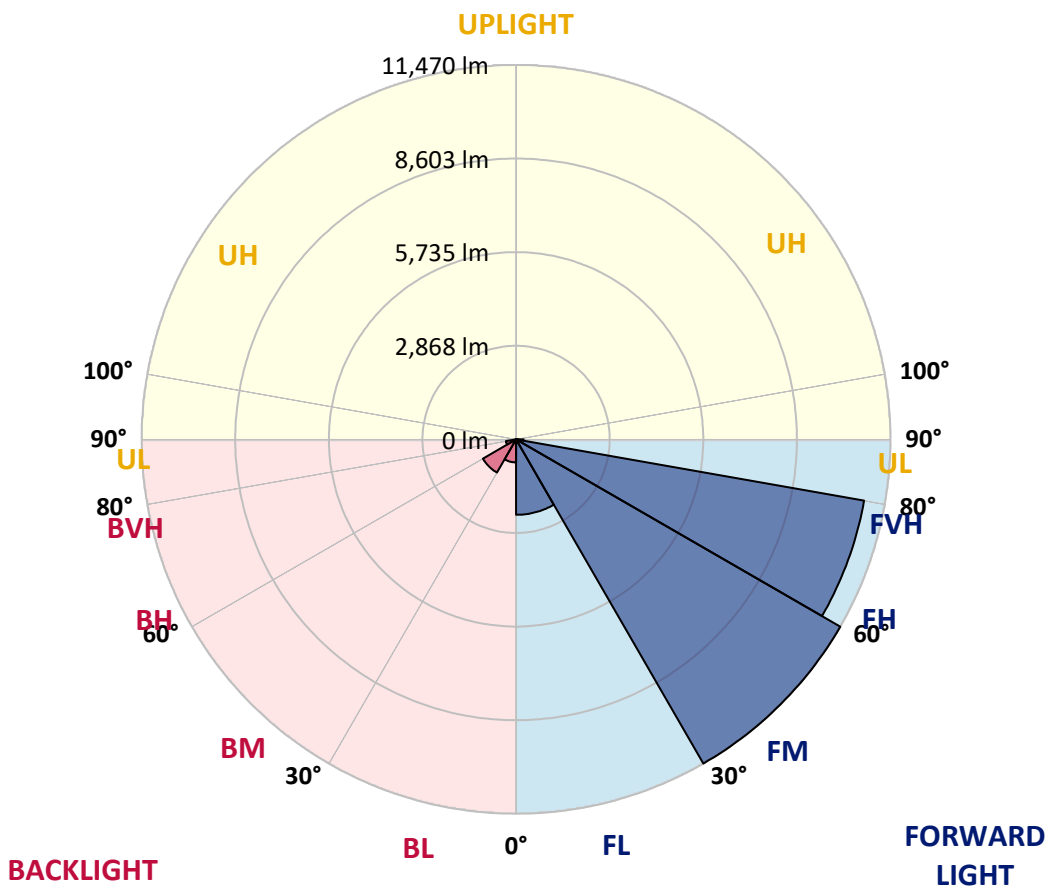
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2312.0	8.5			
FM (30°-60°)	11470.3	42.4			
FH (60°-80°)	10824.6	40.0			G4/12000
FVH (80°-90°)	228.2	0.8			G3/500
BL (0°-30°)	706.3	2.6	B2/1000		
BM (30°-60°)	1174.0	4.3	B2/2500		
BH (60°-80°)	315.3	1.2	B1/500		G1/500
BVH (80°-90°)	16.1	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°	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5
2.5°	4934.1	4951.3	4948.8	4956.2	4939.0	4911.9	4907.0	4870.1	4803.6	4720.0	4626.4
5°	5035.0	5054.6	5039.9	5032.5	5000.5	4971.0	4963.6	4924.2	4847.9	4734.7	4572.3
7.5°	5121.1	5126.0	5116.2	5098.9	5052.2	5012.8	4985.7	4931.6	4840.5	4727.3	4540.3
10°	5135.8	5133.4	5138.3	5140.8	5111.2	5076.8	5054.6	4980.8	4865.2	4744.6	4542.8
12.5°	5118.6	5118.6	5150.6	5187.5	5187.5	5170.3	5148.2	5081.7	4946.4	4803.6	4592.0
15°	5140.8	5148.2	5209.7	5278.6	5300.7	5283.5	5273.7	5204.8	5064.5	4907.0	4680.6
17.5°	5219.5	5226.9	5325.3	5428.7	5455.8	5436.1	5416.4	5347.5	5197.4	5025.1	4781.5
20°	5335.2	5354.9	5480.4	5613.3	5637.9	5613.3	5573.9	5477.9	5327.8	5153.1	4877.5
22.5°	5546.8	5559.1	5694.5	5834.7	5847.0	5807.7	5748.6	5615.7	5458.2	5288.4	4985.7
25°	5827.4	5844.6	5979.9	6115.3	6083.3	6024.2	5943.0	5792.9	5613.3	5448.4	5123.5
27.5°	6162.0	6181.7	6314.6	6432.7	6349.1	6280.2	6189.1	6002.1	5820.0	5669.9	5300.7
30°	6523.8	6541.0	6659.1	6764.9	6654.2	6573.0	6464.7	6272.8	6088.2	5975.0	5551.7
32.5°	6873.2	6870.8	6984.0	7070.1	6956.9	6892.9	6794.5	6600.1	6452.4	6403.2	5925.8
35°	7198.1	7198.1	7291.6	7377.7	7296.5	7262.0	7171.0	7016.0	6932.3	6991.4	6425.3
37.5°	7525.4	7508.1	7596.7	7692.7	7685.3	7687.8	7636.1	7562.3	7567.2	7776.4	7111.9
40°	7796.1	7788.7	7892.0	8017.5	8116.0	8194.7	8162.7	8189.8	8344.8	8736.1	7990.5
42.5°	8012.6	8029.8	8162.7	8362.1	8610.6	8770.6	8792.7	8903.5	9302.1	9907.5	8982.2
45°	8261.2	8263.6	8448.2	8753.3	9149.5	9403.0	9491.6	9777.1	10343.1	11123.2	10069.9
47.5°	8566.3	8536.8	8743.5	9171.7	9745.1	10119.1	10276.6	10633.4	11509.5	12309.3	10955.8
50°	8903.5	8849.3	9083.1	9666.3	10412.0	10879.5	11199.4	11721.2	12666.1	13283.8	11615.3
52.5°	9294.7	9243.1	9508.8	10234.8	11211.8	11780.2	12191.2	12717.8	13657.9	14027.0	12009.1
55°	9791.8	9740.1	10020.7	10916.4	12156.7	12895.0	13325.6	13768.6	14580.7	14575.8	12294.5
57.5°	10343.1	10271.7	10660.5	11777.8	13335.5	14103.3	14541.3	14757.9	15282.0	15001.5	12486.5
60°	10975.5	10911.5	11450.5	12803.9	14696.4	15407.5	15683.2	15594.6	15857.9	15252.5	12420.0
62.5°	11546.4	11516.9	12186.3	13891.6	15993.2	16593.7	16670.0	16283.6	16281.2	15257.4	11972.2
65°	12139.5	12196.1	13190.3	15144.2	17297.5	17701.1	17570.7	16967.7	16451.0	14654.5	10648.2
67.5°	12361.0	12525.9	13852.3	16276.2	18326.1	18641.1	18412.3	17309.8	15744.7	12626.8	8108.6
70°	10992.7	11302.8	13227.2	16340.2	18751.9	19052.1	18503.3	16389.4	13126.3	8364.5	4441.9
72.5°	8359.6	8721.3	11022.3	13379.8	16864.4	17548.5	16610.9	13352.7	8460.5	3664.2	1491.3
75°	4678.1	5069.4	8209.5	10074.8	11322.5	11947.6	11603.0	8566.3	3747.9	957.3	445.4
77.5°	1582.3	1712.8	3819.3	6233.4	7473.7	6912.6	5852.0	4254.9	1378.1	364.2	236.2
80°	937.6	986.8	1422.4	3103.2	3932.5	3260.7	2574.1	1572.5	701.3	194.4	164.9
82.5°	280.5	332.2	785.0	1151.7	1540.5	959.7	812.1	898.2	364.2	105.8	137.8
85°	0.0	0.0	167.3	356.8	403.6	157.5	157.5	509.4	66.4	44.3	100.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	12.3	7.4	9.8	22.1
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°	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5
2.5°	4560.0	4473.9	4373.0	4277.0	4186.0	4067.8	4011.2	3942.3	3883.3	3851.3	3868.5
5°	4469.0	4333.6	4126.9	3917.7	3706.1	3506.7	3327.1	3206.5	3098.2	3041.6	3053.9
7.5°	4390.2	4208.1	3885.7	3543.7	3204.1	2862.0	2583.9	2367.4	2200.0	2131.1	2118.8
10°	4355.8	4126.9	3671.6	3179.5	2657.7	2197.6	1803.8	1565.1	1395.3	1311.6	1326.4
12.5°	4373.0	4085.1	3489.5	2822.6	2145.9	1609.4	1232.9	1009.0	888.4	839.2	826.9
15°	4422.2	4075.2	3327.1	2458.4	1656.2	1124.6	851.5	760.4	735.8	730.9	730.9
17.5°	4478.8	4077.7	3159.8	2089.3	1257.5	834.2	728.4	711.2	703.8	698.9	701.3
20°	4535.4	4077.7	2967.8	1715.2	945.0	721.0	694.0	681.7	674.3	671.8	671.8
22.5°	4604.3	4077.7	2753.7	1368.2	757.9	684.1	662.0	654.6	647.2	644.7	642.3
25°	4688.0	4080.1	2517.5	1070.5	689.0	652.1	634.9	627.5	620.1	615.2	615.2
27.5°	4808.6	4099.8	2256.6	834.2	649.7	622.6	607.8	600.5	593.1	585.7	585.7
30°	4983.3	4149.0	1963.8	689.0	612.8	590.6	575.8	570.9	563.5	556.2	553.7
32.5°	5244.1	4235.2	1661.1	617.7	578.3	556.2	538.9	534.0	526.6	519.2	516.8
35°	5608.3	4392.7	1365.8	573.4	534.0	511.9	502.0	499.6	489.7	482.3	482.3
37.5°	6142.3	4648.6	1082.8	529.1	497.1	479.9	467.6	462.6	452.8	445.4	443.0
40°	6794.5	4980.8	841.6	494.6	462.6	445.4	433.1	425.7	413.4	403.6	398.7
42.5°	7626.3	5386.9	664.4	457.7	430.7	413.4	403.6	388.8	371.6	356.8	354.4
45°	8492.5	5805.2	548.8	423.3	401.1	386.4	374.1	354.4	329.8	312.5	307.6
47.5°	9156.9	6066.1	479.9	386.4	369.1	356.8	342.1	317.5	287.9	268.2	263.3
50°	9631.9	6105.4	428.2	351.9	342.1	329.8	307.6	278.1	246.1	226.4	221.5
52.5°	9865.7	5928.3	386.4	319.9	312.5	300.2	273.2	241.2	206.7	187.0	182.1
55°	9971.5	5593.6	347.0	292.8	283.0	268.2	238.7	204.3	169.8	152.6	147.7
57.5°	9929.6	5098.9	312.5	265.8	253.5	236.2	204.3	167.3	140.3	123.0	120.6
60°	9619.6	4405.0	278.1	238.7	223.9	204.3	172.3	137.8	113.2	100.9	98.4
62.5°	8950.2	3543.7	243.6	206.7	196.9	177.2	147.7	113.2	93.5	86.1	83.7
65°	7579.5	2505.2	209.2	174.7	169.8	150.1	123.0	93.5	81.2	76.3	73.8
67.5°	5448.4	1523.3	177.2	150.1	145.2	128.0	103.4	81.2	73.8	71.4	71.4
70°	2739.0	721.0	140.3	123.0	123.0	105.8	88.6	73.8	71.4	68.9	68.9
72.5°	930.2	307.6	105.8	96.0	100.9	91.1	76.3	68.9	68.9	68.9	68.9
75°	317.5	162.4	73.8	68.9	73.8	73.8	66.4	66.4	68.9	68.9	68.9
77.5°	206.7	108.3	51.7	46.8	56.6	56.6	56.6	61.5	66.4	66.4	66.4
80°	169.8	59.1	34.5	32.0	41.8	41.8	46.8	56.6	61.5	61.5	61.5
82.5°	145.2	36.9	19.7	22.1	29.5	32.0	39.4	46.8	54.1	56.6	56.6
85°	98.4	19.7	14.8	17.2	19.7	24.6	32.0	39.4	44.3	49.2	49.2
87.5°	27.1	7.4	9.8	12.3	12.3	17.2	24.6	29.5	34.5	36.9	36.9
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)