

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: P637650

Luminaire Tested: GWS-SA4D-730-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18061.3 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

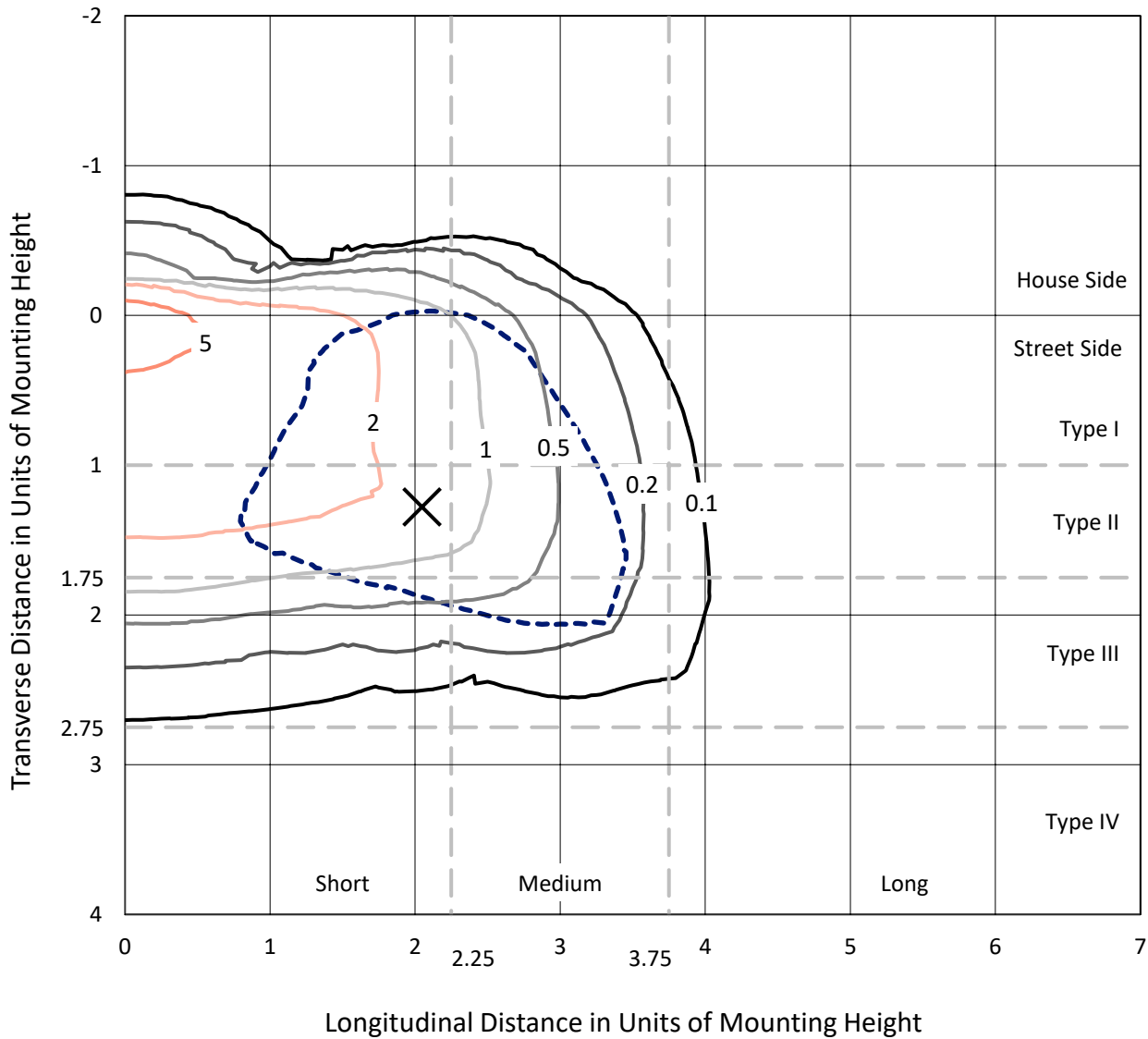
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

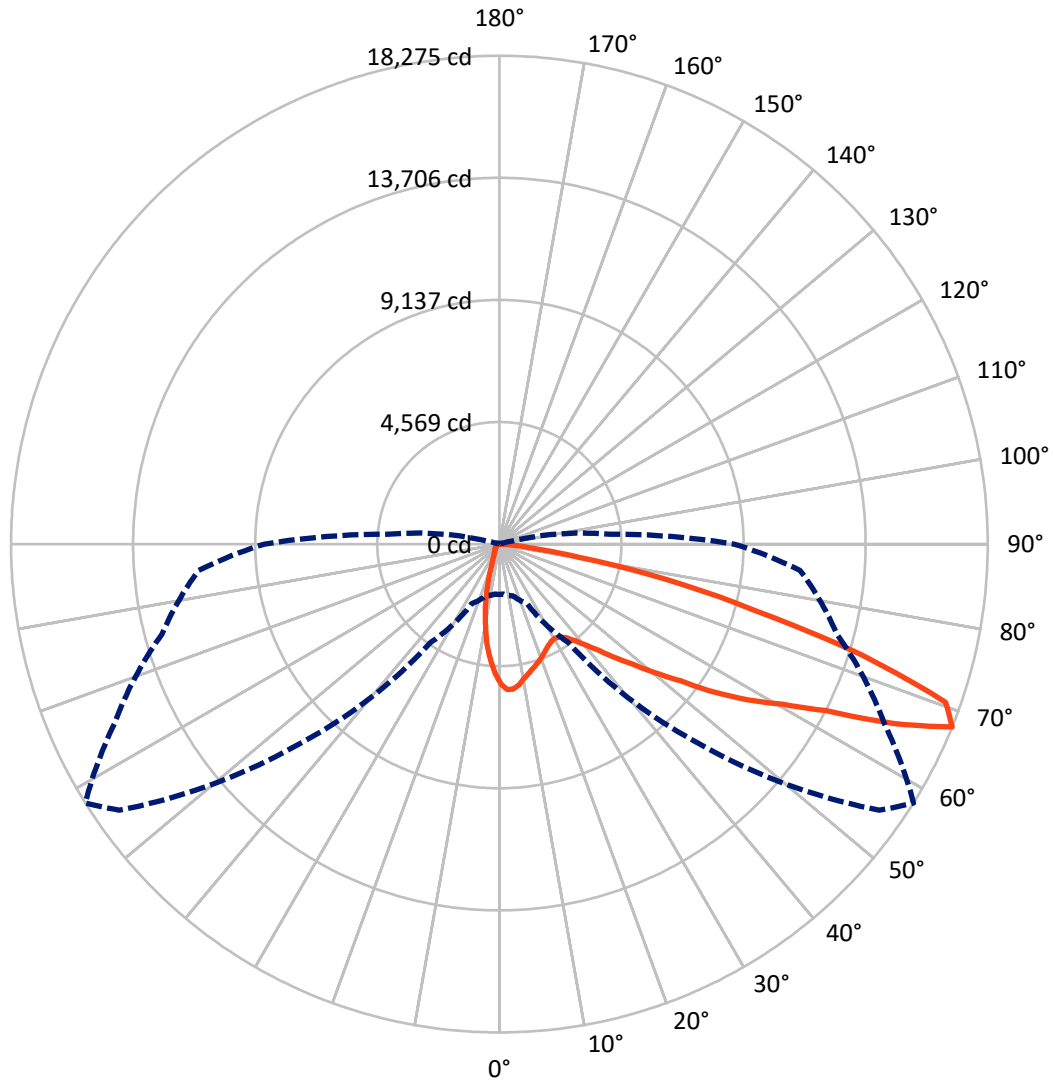
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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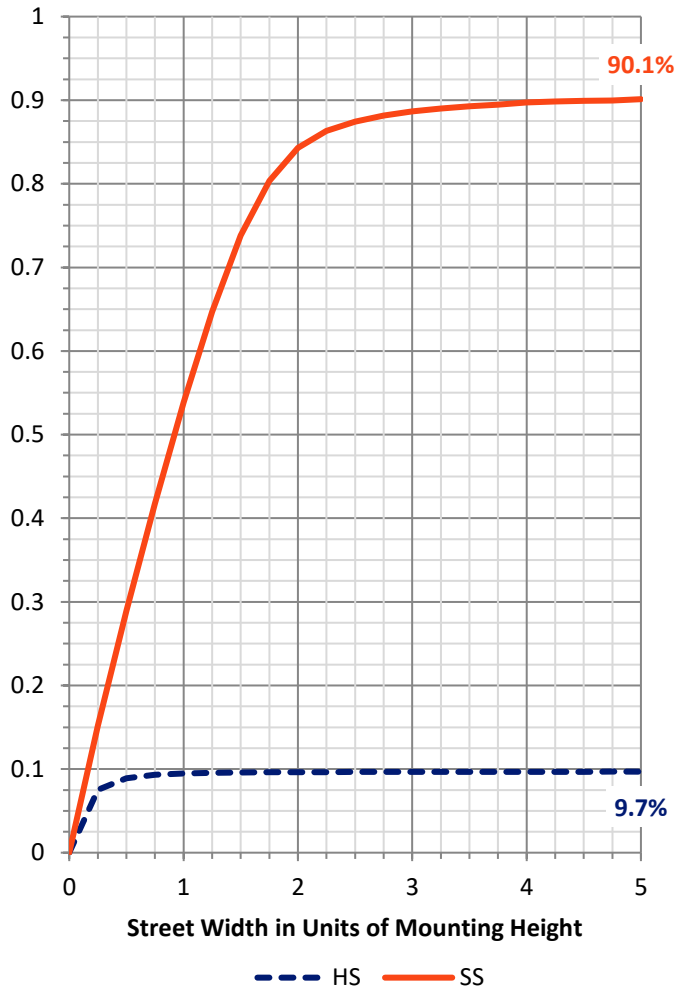
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1764.5	0.0	1764.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	16296.8	0.0	16296.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	18061.3	0.0	18061.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.3	2.3
10°-20°	881.2	4.9
20°-30°	1188.4	6.6
30°-40°	1670.0	9.2
40°-50°	2579.1	14.3
50°-60°	4124.3	22.8
60°-70°	4883.5	27.0
70°-80°	2160.3	12.0
80°-90°	151.0	0.8
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°	18061.3	100.0
0°-180°	18061.3	100.0

Coefficient of Utilization



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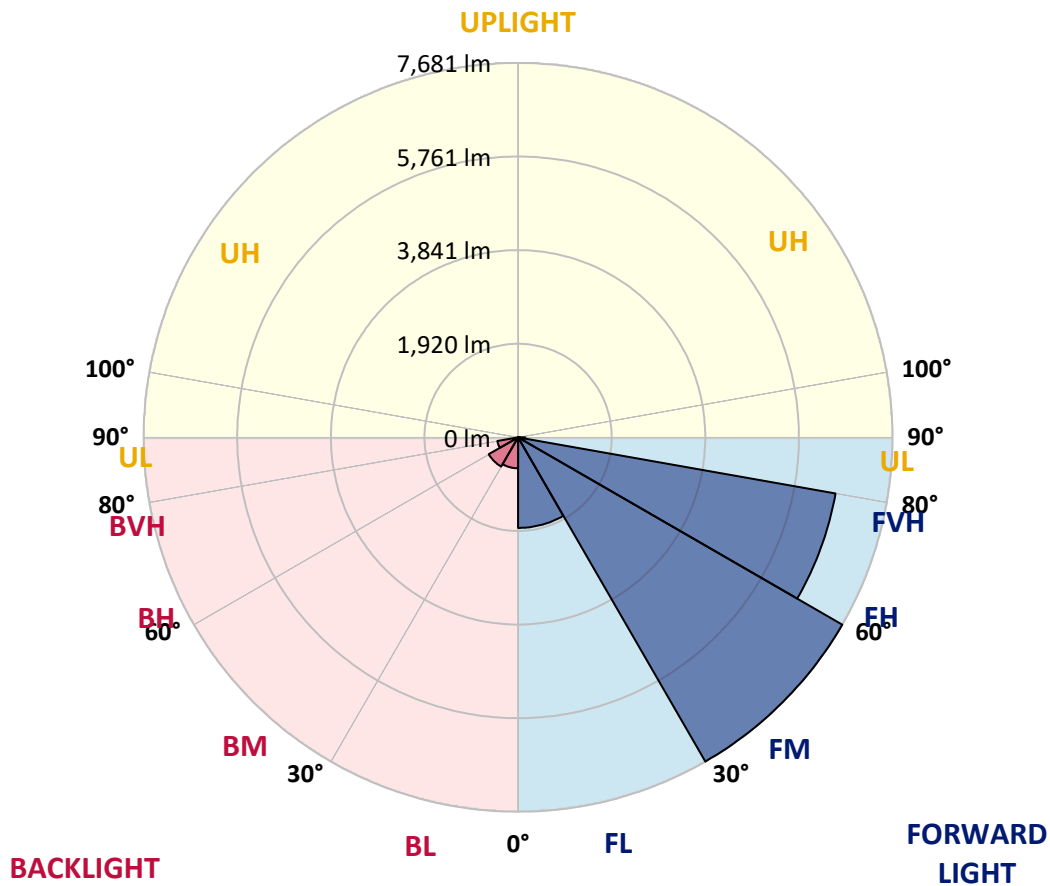
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.0	10.3			
FM (30°-60°)	7681.1	42.5			
FH (60°-80°)	6613.1	36.6			G3/7500
FVH (80°-90°)	144.6	0.8			G2/225
BL (0°-30°)	635.0	3.5	B2/1000		
BM (30°-60°)	692.3	3.8	B1/1000		
BH (60°-80°)	430.8	2.4	B1/500		G1/500
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7
2.5°	5479.9	5489.5	5502.3	5518.2	5515.1	5500.7	5483.1	5443.1	5417.5	5337.6	5240.1
5°	5304.0	5302.4	5334.4	5364.8	5419.1	5447.9	5487.9	5451.1	5438.3	5342.4	5184.1
7.5°	4960.4	4977.9	5014.7	5062.7	5141.0	5225.7	5321.6	5310.4	5348.8	5284.9	5088.2
10°	4623.1	4613.5	4671.0	4742.9	4862.8	4971.5	5110.6	5109.0	5209.7	5203.3	4979.5
12.5°	4327.3	4325.7	4370.5	4452.0	4592.7	4744.5	4933.2	4938.0	5062.7	5113.8	4886.8
15°	4077.9	4081.1	4124.3	4209.0	4354.5	4539.9	4758.9	4798.9	4939.6	5043.5	4795.7
17.5°	3900.5	3902.1	3927.7	4001.2	4143.5	4341.7	4605.5	4659.8	4840.5	4990.7	4722.2
20°	3819.0	3812.6	3817.4	3854.1	3964.4	4145.1	4448.8	4519.1	4749.3	4954.0	4655.0
22.5°	3830.2	3820.6	3798.2	3793.4	3843.0	3980.4	4282.6	4368.9	4650.2	4931.6	4594.3
25°	3929.3	3908.5	3876.5	3828.6	3809.4	3878.1	4137.1	4226.6	4557.5	4933.2	4547.9
27.5°	4081.1	4058.8	4018.8	3954.9	3879.7	3850.9	4038.0	4122.7	4492.0	4969.9	4525.5
30°	4274.6	4257.0	4218.6	4141.9	4041.2	3922.9	4017.2	4087.5	4460.0	5045.1	4535.1
32.5°	4503.2	4490.4	4458.4	4388.1	4273.0	4092.3	4087.5	4141.9	4485.6	5153.8	4571.9
35°	4723.8	4728.6	4730.2	4691.8	4568.7	4349.7	4281.0	4300.1	4591.1	5316.8	4655.0
37.5°	4961.9	4950.8	5008.3	5035.5	4917.2	4683.8	4579.9	4581.5	4792.5	5558.2	4811.7
40°	5142.6	5145.8	5270.5	5382.4	5332.8	5107.4	4958.8	4957.2	5102.6	5889.1	5064.3
42.5°	5312.0	5332.8	5516.7	5708.5	5777.2	5577.4	5470.3	5430.3	5537.4	6336.7	5443.1
45°	5492.7	5523.0	5780.4	6053.8	6234.4	6116.1	6031.4	6047.4	6060.2	6857.8	5953.1
47.5°	5703.7	5722.9	6041.0	6426.2	6763.5	6733.2	6738.0	6718.8	6712.4	7514.9	6627.7
50°	5959.5	6004.2	6370.3	6830.7	7291.1	7492.5	7559.6	7567.6	7463.7	8231.0	7326.2
52.5°	6503.0	6557.3	6870.6	7273.5	7866.5	8290.2	8563.5	8509.2	8349.3	8924.8	8091.9
55°	7144.0	7185.6	7487.7	7904.9	8569.9	9164.6	9813.6	9791.2	9399.6	9655.3	8721.8
57.5°	7204.7	7251.1	7719.5	8358.9	9473.1	10245.2	10927.8	10999.7	10425.8	10173.3	9284.5
60°	6522.1	6616.5	7255.9	8115.9	9818.4	11698.3	12149.1	12163.5	11178.8	10699.2	9971.9
62.5°	5227.3	5272.1	5916.3	7038.5	9286.1	12545.5	14014.6	13710.9	12145.9	11512.9	11060.5
65°	2739.9	2922.2	3483.3	4725.4	7530.8	12249.8	16259.0	16175.9	13885.1	12678.2	11907.7
67.5°	1879.9	1878.3	2011.0	2463.4	4490.4	10547.3	17360.4	18274.8	15896.1	13077.9	11293.9
70°	1430.7	1435.5	1553.8	1847.9	2325.9	7020.9	16151.9	17715.3	16270.2	11874.1	9134.2
72.5°	949.5	959.1	1155.8	1493.1	1857.5	3441.7	12551.9	14174.5	13690.1	9537.0	6429.4
75°	567.5	575.5	716.2	1085.4	1651.3	1926.3	7975.2	9799.2	9423.5	6573.3	3446.5
77.5°	233.4	239.8	367.7	676.2	1208.5	1496.3	4410.4	6411.8	5644.5	2613.7	941.6
80°	97.5	100.7	177.4	473.2	871.2	938.4	2043.0	3013.3	2313.1	562.7	287.7
82.5°	35.2	36.8	65.5	260.6	541.9	706.6	1031.1	1190.9	652.2	183.8	155.1
85°	1.6	1.6	16.0	87.9	206.2	199.8	589.9	570.7	215.8	76.7	92.7
87.5°	0.0	0.0	1.6	1.6	3.2	8.0	55.9	99.1	46.4	19.2	40.0
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°	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7	5209.7
2.5°	5176.2	5091.4	4998.7	4912.4	4774.9	4693.4	4592.7	4547.9	4484.0	4468.0	4477.6
5°	5070.7	4925.2	4703.0	4501.6	4241.0	4031.6	3820.6	3731.1	3616.0	3539.2	3507.3
7.5°	4922.0	4731.8	4384.9	4018.8	3660.7	3278.7	2987.7	2795.9	2621.6	2525.7	2506.6
10°	4771.7	4523.9	4026.8	3502.5	2947.8	2490.6	2097.3	1806.4	1569.8	1462.7	1379.6
12.5°	4616.7	4308.1	3662.3	2978.1	2333.9	1710.5	1224.5	941.6	772.1	705.0	716.2
15°	4474.4	4100.3	3301.0	2453.8	1643.3	1032.7	676.2	570.7	530.7	517.9	516.3
17.5°	4338.5	3903.7	2941.4	1943.9	1083.8	633.0	517.9	492.4	481.2	474.8	474.8
20°	4215.4	3715.1	2589.7	1464.3	700.2	501.9	468.4	455.6	446.0	441.2	441.2
22.5°	4100.3	3532.8	2246.0	1035.9	516.3	450.8	430.0	417.2	406.0	399.6	399.6
25°	3996.4	3368.2	1918.3	713.0	444.4	412.4	390.1	375.7	356.5	345.3	345.3
27.5°	3921.3	3221.1	1603.4	519.5	401.2	370.9	345.3	326.1	305.3	292.5	289.3
30°	3876.5	3096.4	1285.2	426.8	361.3	330.9	302.1	278.2	254.2	241.4	239.8
32.5°	3850.9	2981.3	994.3	372.5	327.7	292.5	260.6	235.0	211.0	196.6	195.0
35°	3860.5	2891.8	744.9	335.7	295.7	259.0	223.8	198.2	177.4	164.7	161.5
37.5°	3943.7	2851.8	559.5	306.9	268.6	230.2	193.4	169.4	150.3	140.7	139.1
40°	4105.1	2859.8	439.6	284.5	246.2	201.4	166.3	143.9	129.5	121.5	119.9
42.5°	4356.1	2927.0	362.9	265.4	222.2	175.8	143.9	126.3	111.9	103.9	102.3
45°	4730.2	3066.0	316.5	243.0	196.6	151.9	124.7	108.7	95.9	86.3	84.7
47.5°	5272.1	3307.4	286.1	222.2	174.2	131.1	107.1	91.1	79.9	71.9	70.3
50°	5849.2	3596.8	260.6	201.4	155.1	113.5	91.1	75.1	65.5	57.5	55.9
52.5°	6464.6	3908.5	241.4	182.2	137.5	97.5	76.7	62.3	52.8	44.8	43.2
55°	7056.1	4221.8	219.0	169.4	116.7	83.1	63.9	51.2	41.6	35.2	35.2
57.5°	7631.6	4509.6	195.0	148.7	95.9	70.3	52.8	41.6	33.6	28.8	27.2
60°	8318.9	4907.6	167.8	126.3	79.9	59.1	43.2	33.6	27.2	22.4	22.4
62.5°	9340.4	5321.6	143.9	105.5	67.1	49.6	35.2	27.2	22.4	19.2	17.6
65°	9674.5	5097.8	121.5	86.3	54.4	40.0	28.8	24.0	19.2	17.6	16.0
67.5°	8782.5	4178.7	100.7	70.3	44.8	33.6	25.6	20.8	17.6	16.0	14.4
70°	6853.1	2965.3	78.3	52.8	36.8	27.2	22.4	19.2	16.0	14.4	14.4
72.5°	4661.4	1753.6	62.3	40.0	30.4	24.0	19.2	17.6	16.0	14.4	12.8
75°	2295.5	623.4	48.0	30.4	24.0	20.8	17.6	16.0	14.4	12.8	12.8
77.5°	618.6	172.6	36.8	24.0	19.2	16.0	16.0	16.0	14.4	11.2	11.2
80°	209.4	71.9	27.2	17.6	16.0	12.8	11.2	14.4	12.8	11.2	9.6
82.5°	115.1	35.2	19.2	14.4	11.2	9.6	9.6	9.6	9.6	8.0	8.0
85°	73.5	19.2	12.8	11.2	11.2	8.0	6.4	6.4	4.8	4.8	4.8
87.5°	33.6	11.2	11.2	9.6	9.6	8.0	4.8	3.2	1.6	1.6	1.6
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)