

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: P640690

Luminaire Tested: GWS-SA5E-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27734.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

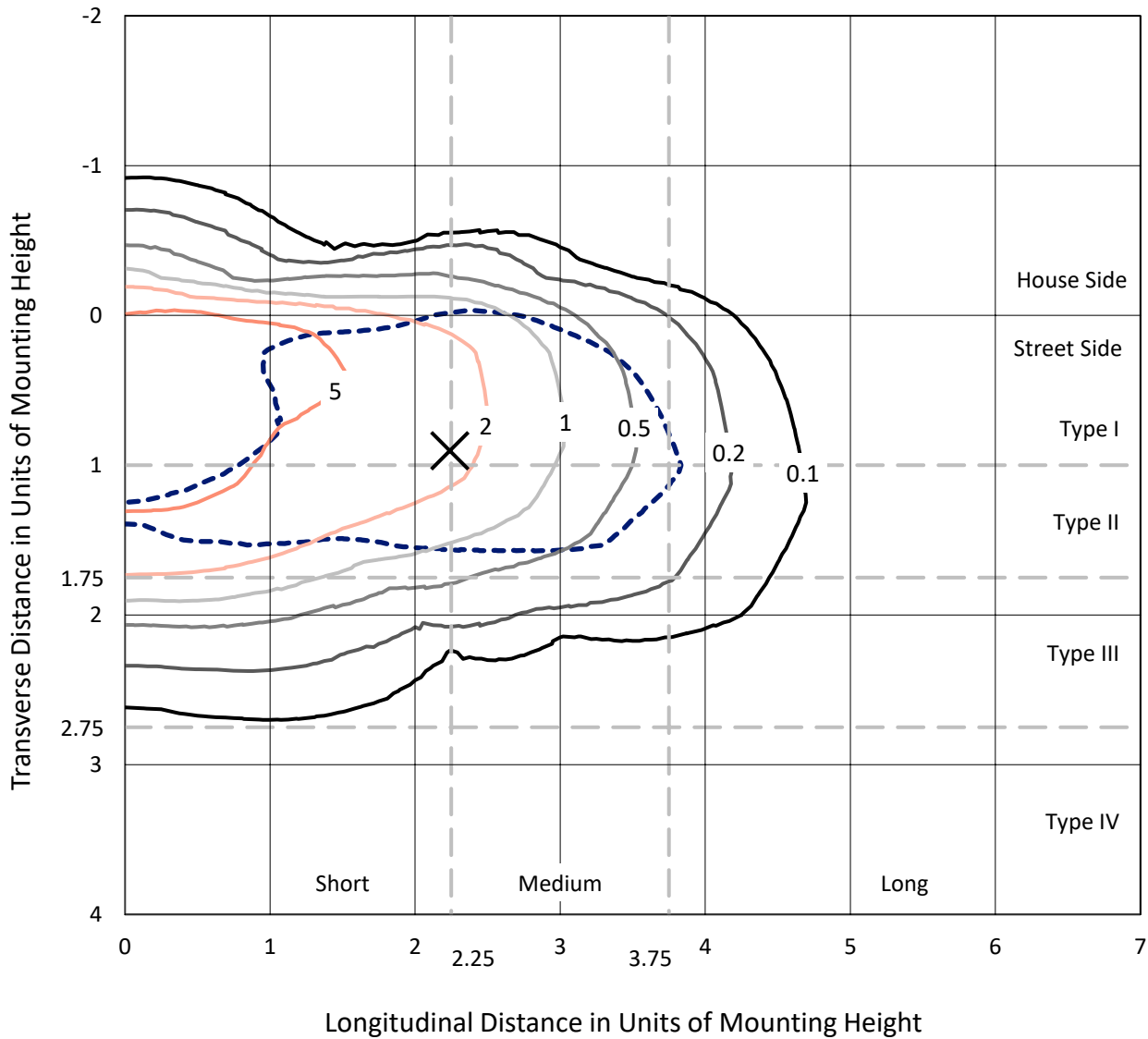
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

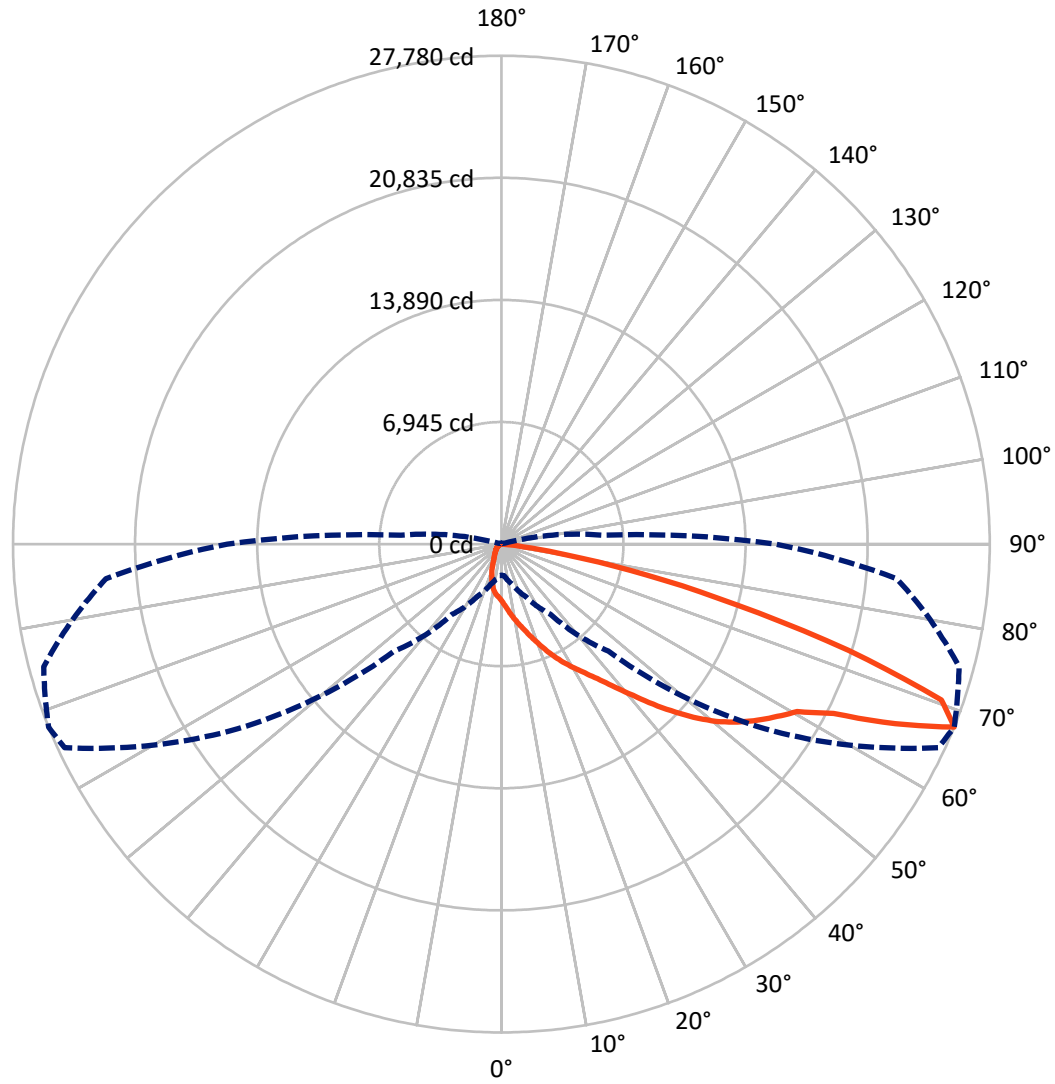
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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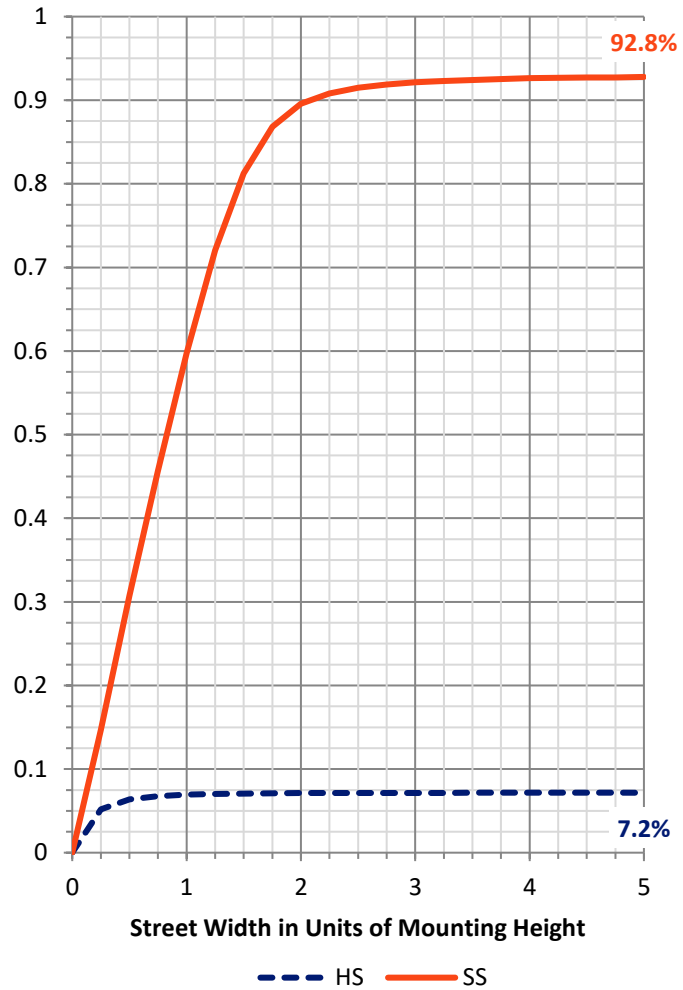
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2002.8	0.0	2002.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25731.9	0.0	25731.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	27734.7	0.0	27734.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	1.1
10°-20°	904.0	3.3
20°-30°	1553.5	5.6
30°-40°	2700.9	9.7
40°-50°	4712.9	17.0
50°-60°	7108.2	25.6
60°-70°	7127.7	25.7
70°-80°	3144.7	11.3
80°-90°	168.0	0.6
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°	27734.7	100.0
0°-180°	27734.7	100.0

Coefficient of Utilization



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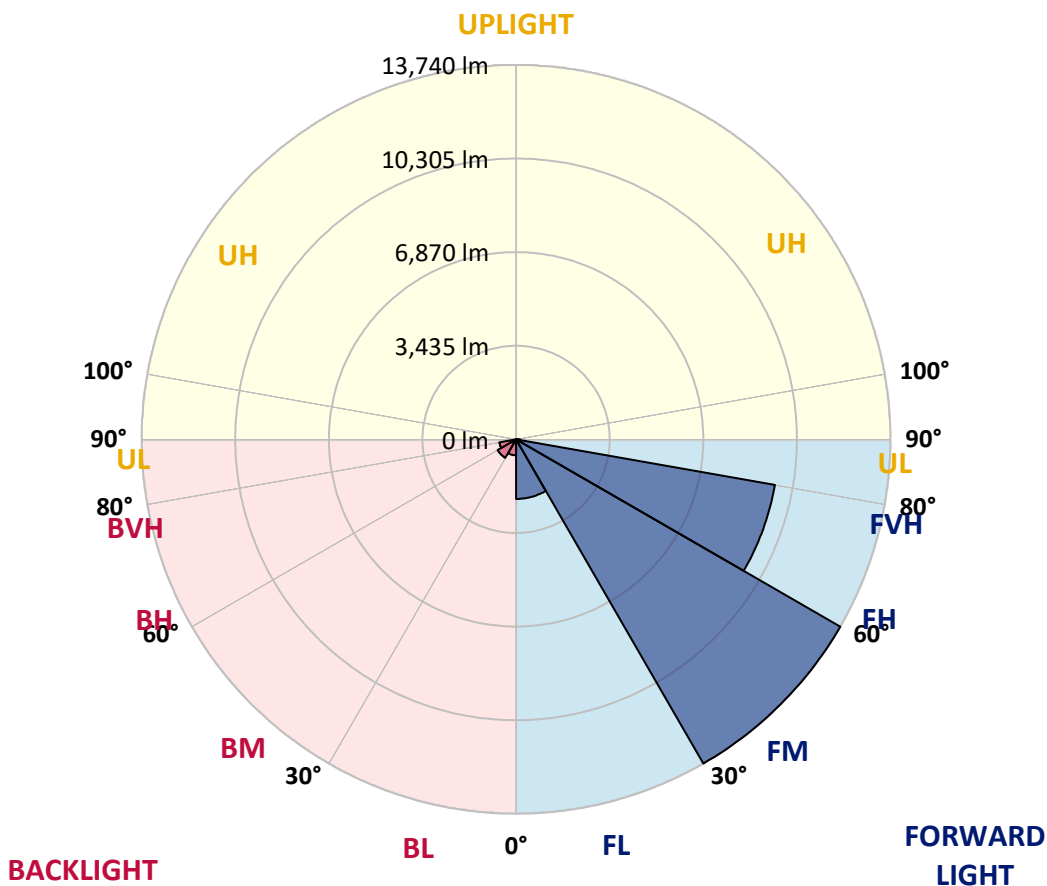
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2186.3	7.9			
FM (30°-60°)	13739.7	49.5			
FH (60°-80°)	9647.4	34.8			G4/12000
FVH (80°-90°)	158.5	0.6			G2/225
BL (0°-30°)	585.9	2.1	B2/1000		
BM (30°-60°)	782.3	2.8	B1/1000		
BH (60°-80°)	625.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.5	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6
2.5°	3758.5	3782.4	3758.5	3763.8	3694.8	3662.9	3593.9	3498.4	3474.5	3413.4	3320.5
5°	4217.7	4238.9	4215.0	4209.7	4130.1	4071.7	3957.5	3793.0	3745.2	3625.8	3442.6
7.5°	4467.2	4480.4	4488.4	4501.7	4472.5	4424.7	4321.2	4116.8	4066.4	3872.6	3615.1
10°	4493.7	4504.3	4544.1	4623.8	4682.2	4711.4	4653.0	4464.5	4384.9	4196.4	3827.5
12.5°	4419.4	4435.3	4499.0	4631.7	4793.6	4942.3	4979.4	4814.9	4743.2	4501.7	4077.0
15°	4321.2	4334.5	4422.0	4602.5	4846.7	5120.1	5274.1	5202.4	5122.8	4870.6	4353.0
17.5°	4169.9	4188.5	4310.6	4554.8	4870.6	5260.8	5592.6	5616.5	5560.7	5287.3	4658.3
20°	4084.9	4098.2	4207.0	4459.2	4854.7	5364.3	5889.9	6115.5	6054.4	5767.8	5008.6
22.5°	4156.6	4167.2	4238.9	4435.3	4801.6	5422.7	6165.9	6614.5	6580.0	6282.7	5377.6
25°	4533.5	4568.0	4525.6	4560.1	4825.5	5454.6	6388.9	7113.5	7121.5	6821.5	5759.8
27.5°	5298.0	5252.8	5152.0	4979.4	5011.3	5539.5	6580.0	7583.3	7652.3	7347.1	6099.6
30°	6075.7	6049.1	5988.1	5720.0	5497.0	5728.0	6741.9	8063.7	8172.6	7864.7	6402.1
32.5°	6948.9	6975.5	6866.6	6545.5	6165.9	6110.2	6909.1	8520.3	8724.6	8451.3	6757.8
35°	7992.1	8000.0	7785.0	7429.4	6999.4	6741.9	7209.0	9024.6	9401.5	9199.8	7232.9
37.5°	9008.7	9056.4	8939.6	8379.6	7997.4	7527.6	7705.4	9672.2	10203.1	10123.5	7830.1
40°	9908.5	9982.8	9945.6	9404.1	8902.5	8507.0	8475.1	10431.4	11171.9	11262.1	8618.5
42.5°	10625.1	10672.9	10702.1	10317.2	9874.0	9651.0	9425.4	11312.6	12315.9	12684.8	9584.6
45°	11381.6	11397.5	11458.6	11198.4	10810.9	10829.5	10548.1	12382.3	13520.9	14261.5	10694.1
47.5°	12345.1	12398.2	12369.0	12095.6	11745.2	11954.9	11708.1	13483.8	14710.1	15944.3	11830.2
50°	13518.3	13574.0	13547.5	13229.0	12838.8	12926.4	12772.4	14553.5	15856.7	17531.6	12775.1
52.5°	14123.5	14168.6	14497.7	14641.1	14436.7	13879.3	13680.2	15729.3	16825.5	18837.5	13643.0
55°	13831.5	13863.3	14580.0	15185.2	15933.7	15376.3	14593.3	16637.1	17680.2	19856.7	14288.0
57.5°	12621.1	12793.7	13767.8	14792.3	16366.3	16854.7	16074.4	17624.5	18503.0	20565.4	14922.4
60°	10139.4	10131.4	11527.6	13367.0	15522.3	17260.8	18165.9	18959.6	19328.5	21109.6	15771.8
62.5°	5603.2	5653.6	7511.6	9935.0	13175.9	16209.7	19734.6	21266.2	21210.4	22059.8	17101.6
65°	2789.7	2890.5	3899.1	5690.8	8767.1	13396.2	20005.4	24785.7	24626.5	24297.3	19848.8
67.5°	1770.4	1810.2	2367.6	3307.2	4873.3	8610.5	18319.9	27410.8	27779.8	26951.6	22574.7
70°	1146.7	1213.0	1645.7	2261.5	2941.0	4438.0	13420.1	25709.4	26556.1	26659.7	20876.0
72.5°	623.8	671.5	1051.1	1613.8	2123.4	2219.0	7538.2	19294.0	20655.7	22614.5	16331.8
75°	355.7	390.2	576.0	1096.2	1558.1	1351.0	3341.7	12915.8	13783.7	16162.0	11702.8
77.5°	215.0	244.2	323.8	533.5	976.8	902.5	1263.4	7862.0	8414.1	9643.0	6142.0
80°	98.2	116.8	204.4	294.6	533.5	427.3	483.1	3665.6	3785.0	3957.5	2033.2
82.5°	45.1	53.1	92.9	175.2	302.6	246.8	185.8	846.7	1191.8	1128.1	517.6
85°	5.3	5.3	34.5	71.7	84.9	63.7	77.0	191.1	241.5	339.7	148.6
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	15.9	23.9	34.5	55.7	37.2
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°	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6	3227.6
2.5°	3278.0	3203.7	3137.4	3039.2	2972.8	2898.5	2848.1	2787.0	2763.1	2744.5	2718.0
5°	3352.4	3232.9	3071.0	2890.5	2741.9	2601.2	2471.1	2386.2	2311.9	2301.3	2264.1
7.5°	3474.5	3296.6	3023.2	2728.6	2476.5	2242.9	2059.7	1911.1	1836.8	1812.9	1770.4
10°	3636.4	3392.2	2951.6	2500.3	2136.7	1858.0	1651.0	1483.7	1367.0	1324.5	1292.6
12.5°	3816.9	3479.8	2837.4	2219.0	1804.9	1486.4	1223.6	1045.8	971.5	944.9	921.0
15°	4023.9	3562.1	2656.9	1937.6	1481.1	1093.6	907.8	830.8	798.9	791.0	783.0
17.5°	4223.0	3615.1	2441.9	1645.7	1138.7	849.4	761.8	732.6	724.6	716.7	711.3
20°	4448.6	3652.3	2189.8	1369.6	883.9	719.3	676.8	655.6	639.7	623.8	621.1
22.5°	4679.5	3652.3	1916.4	1098.9	740.5	645.0	597.2	557.4	528.2	512.3	507.0
25°	4899.8	3601.9	1645.7	878.6	653.0	573.3	512.3	467.2	427.3	408.8	403.5
27.5°	5056.4	3471.8	1409.4	743.2	591.9	509.6	435.3	384.9	353.0	334.4	331.8
30°	5154.6	3278.0	1191.8	663.6	538.8	443.3	368.9	326.5	302.6	289.3	284.0
32.5°	5228.9	3039.2	998.0	607.8	488.4	384.9	321.2	286.7	265.4	254.8	252.2
35°	5377.6	2813.5	854.7	557.4	435.3	337.1	281.4	254.8	238.9	225.6	223.0
37.5°	5584.6	2625.1	740.5	512.3	384.9	299.9	254.8	230.9	217.7	204.4	201.7
40°	5889.9	2505.6	655.6	467.2	339.7	270.7	233.6	212.3	193.8	180.5	177.8
42.5°	6359.7	2449.9	599.9	422.0	299.9	244.2	215.0	188.5	169.9	156.6	153.9
45°	6919.7	2479.1	552.1	376.9	273.4	225.6	191.1	164.6	146.0	132.7	130.1
47.5°	7519.6	2582.6	512.3	334.4	246.8	207.0	169.9	140.7	124.8	111.5	108.8
50°	8146.0	2752.5	477.8	294.6	225.6	185.8	146.0	122.1	106.2	95.6	92.9
52.5°	8690.1	2983.4	443.3	265.4	207.0	164.6	127.4	106.2	90.2	79.6	77.0
55°	9210.4	3201.1	416.7	238.9	185.8	143.3	111.5	90.2	77.0	66.4	63.7
57.5°	9775.7	3432.0	384.9	215.0	167.2	127.4	98.2	77.0	66.4	55.7	53.1
60°	10598.6	3774.4	337.1	196.4	146.0	111.5	84.9	69.0	58.4	45.1	42.5
62.5°	11785.0	4398.2	284.0	169.9	124.8	95.6	71.7	58.4	47.8	37.2	31.9
65°	14004.0	5459.9	233.6	140.7	100.9	79.6	61.0	47.8	37.2	26.5	23.9
67.5°	15601.9	5735.9	188.5	114.1	82.3	61.0	50.4	37.2	26.5	18.6	15.9
70°	13640.4	4119.5	146.0	92.9	69.0	47.8	39.8	29.2	18.6	13.3	10.6
72.5°	10277.4	2691.4	108.8	71.7	53.1	39.8	29.2	23.9	15.9	10.6	8.0
75°	7243.6	1555.4	79.6	53.1	37.2	29.2	23.9	18.6	13.3	8.0	8.0
77.5°	3713.3	642.3	55.7	37.2	26.5	18.6	15.9	10.6	10.6	8.0	5.3
80°	1128.1	212.3	31.9	23.9	18.6	13.3	8.0	8.0	8.0	5.3	2.7
82.5°	257.5	69.0	18.6	18.6	13.3	10.6	8.0	2.7	2.7	0.0	0.0
85°	66.4	21.2	15.9	13.3	13.3	10.6	5.3	2.7	0.0	0.0	0.0
87.5°	23.9	13.3	13.3	13.3	10.6	8.0	5.3	0.0	0.0	0.0	0.0
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)