

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: P641185

Luminaire Tested: GWS-SA5F-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641185
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-SA5F-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: 30836 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

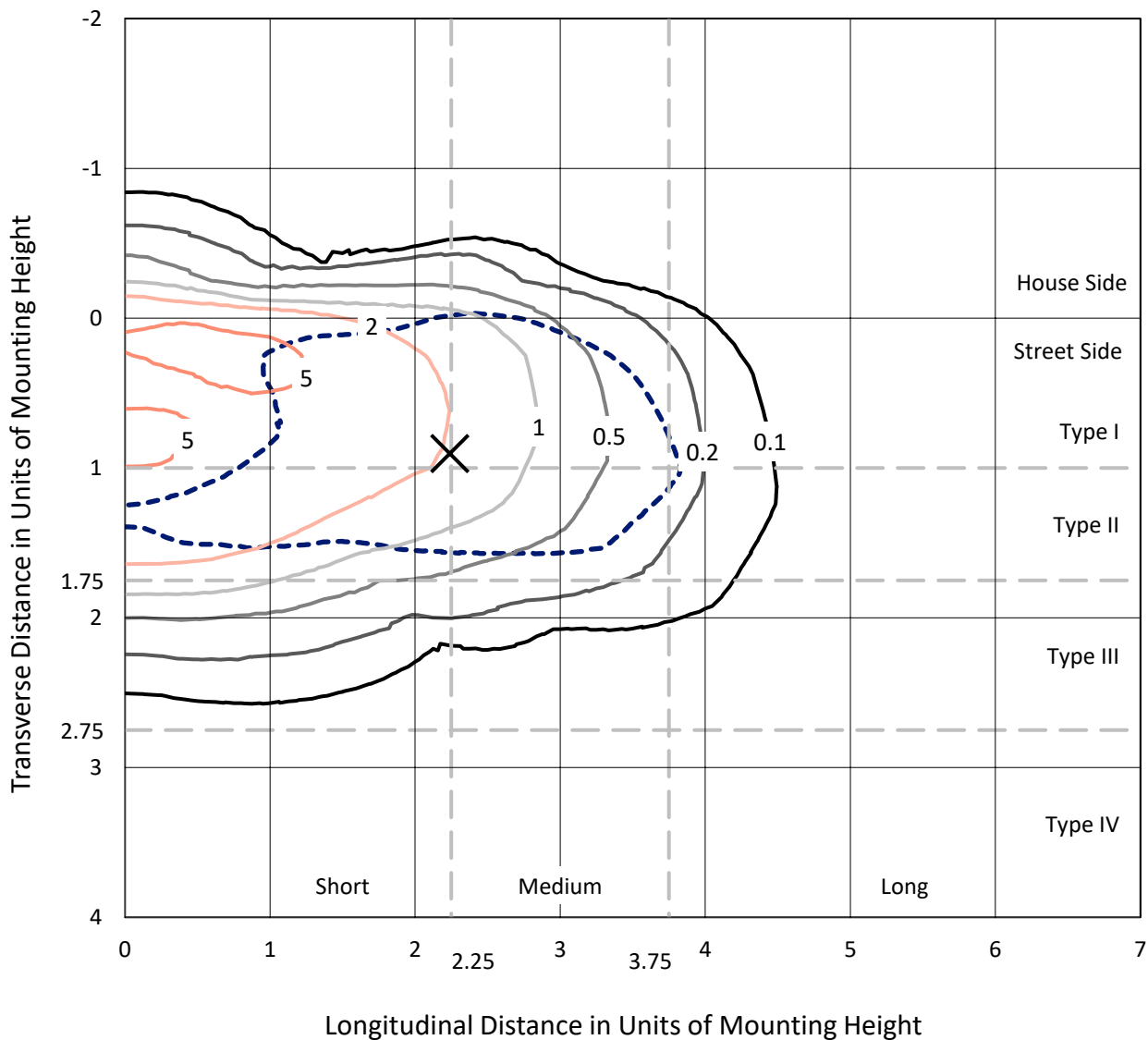
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

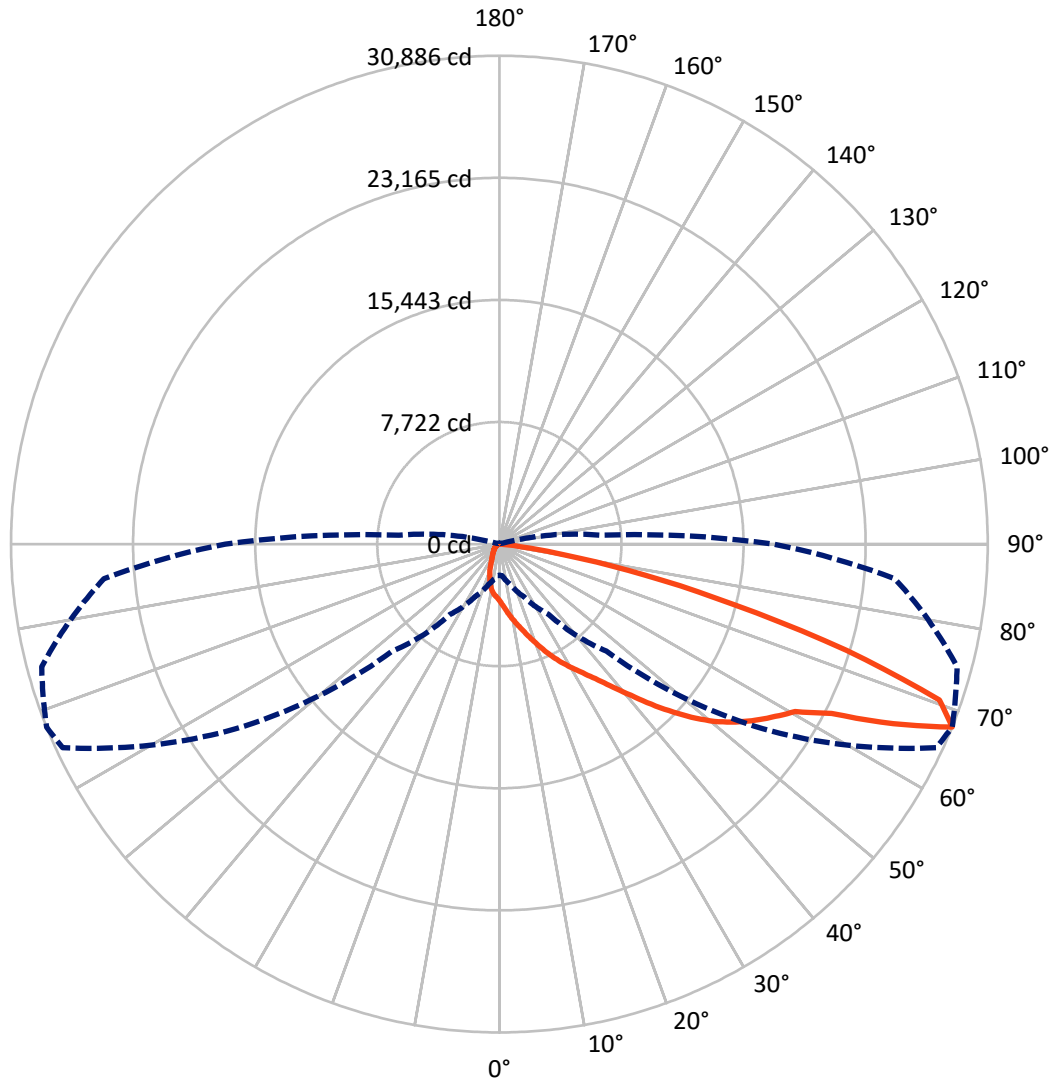
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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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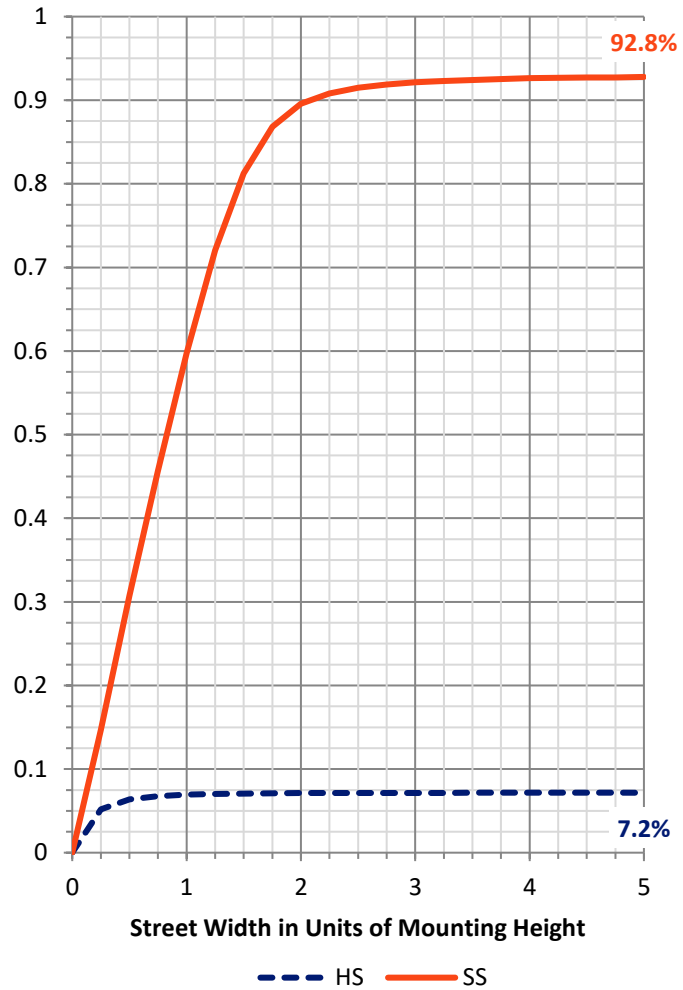
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2226.7	0.0	2226.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	28609.3	0.0	28609.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	30836.0	0.0	30836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.1
10°-20°	1005.1	3.3
20°-30°	1727.2	5.6
30°-40°	3003.0	9.7
40°-50°	5239.9	17.0
50°-60°	7903.1	25.6
60°-70°	7924.7	25.7
70°-80°	3496.4	11.3
80°-90°	186.8	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°	30836.0	100.0
0°-180°	30836.0	100.0

Coefficient of Utilization



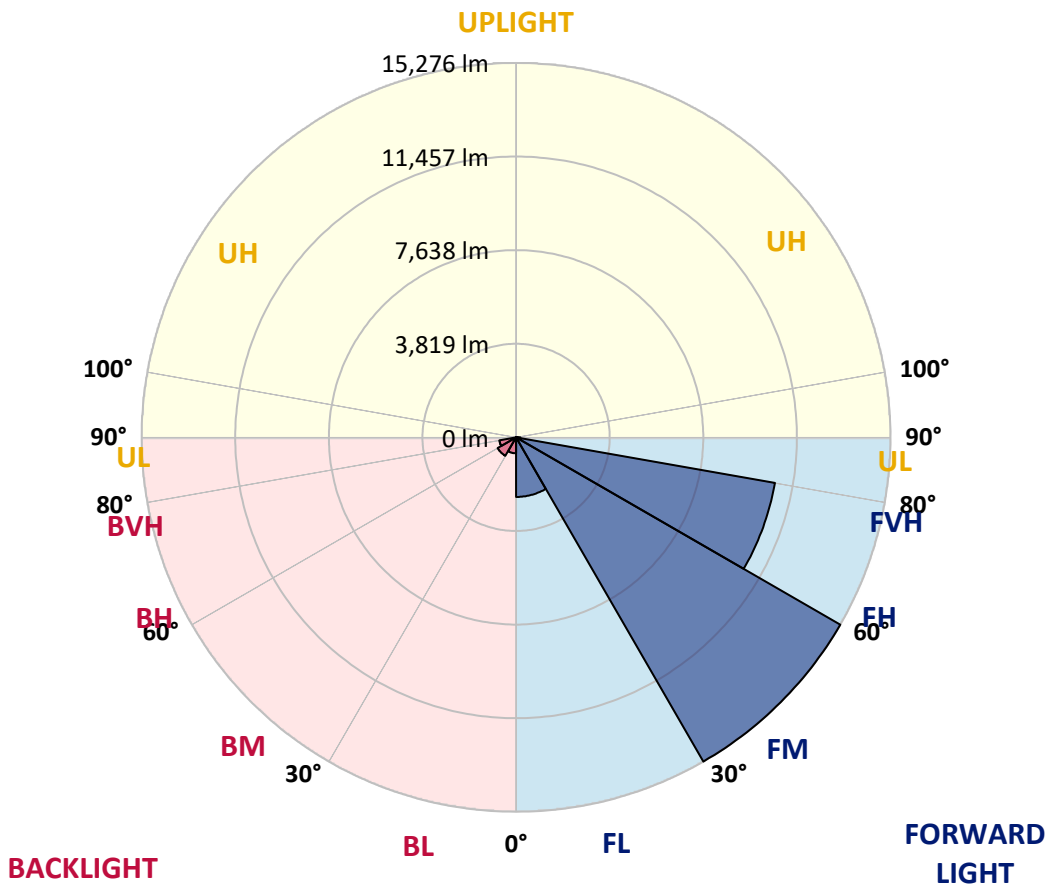
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.8	7.9			
FM (30°-60°)	15276.1	49.5			
FH (60°-80°)	10726.2	34.8			G4/12000
FVH (80°-90°)	176.2	0.6			G2/225
BL (0°-30°)	651.4	2.1	B2/1000		
BM (30°-60°)	869.8	2.8	B1/1000		
BH (60°-80°)	694.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.0			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5
2.5°	4178.7	4205.3	4178.7	4184.6	4107.9	4072.5	3995.8	3889.5	3863.0	3795.1	3691.8
5°	4689.3	4712.9	4686.3	4680.4	4591.9	4527.0	4400.1	4217.1	4164.0	4031.2	3827.6
7.5°	4966.7	4981.4	4990.3	5005.0	4972.6	4919.5	4804.4	4577.1	4521.1	4305.6	4019.4
10°	4996.2	5008.0	5052.3	5140.8	5205.7	5238.2	5173.3	4963.7	4875.2	4665.7	4255.5
12.5°	4913.6	4931.3	5002.1	5149.7	5329.7	5494.9	5536.2	5353.3	5273.6	5005.0	4532.9
15°	4804.4	4819.1	4916.5	5117.2	5388.7	5692.7	5863.8	5784.1	5695.6	5415.3	4839.8
17.5°	4636.2	4656.8	4792.6	5064.1	5415.3	5849.1	6217.9	6244.5	6182.5	5878.6	5179.2
20°	4541.7	4556.5	4677.5	4957.8	5397.5	5964.2	6548.5	6799.3	6731.4	6412.7	5568.7
22.5°	4621.4	4633.2	4712.9	4931.3	5338.5	6029.1	6855.4	7354.1	7315.8	6985.2	5978.9
25°	5040.5	5078.8	5031.6	5070.0	5365.1	6064.5	7103.3	7908.9	7917.8	7584.3	6403.9
27.5°	5890.4	5840.2	5728.1	5536.2	5571.7	6158.9	7315.8	8431.3	8508.0	8168.6	6781.6
30°	6755.0	6725.5	6657.7	6359.6	6111.7	6368.5	7495.8	8965.4	9086.4	8744.1	7118.0
32.5°	7726.0	7755.5	7634.5	7277.4	6855.4	6793.4	7681.7	9473.0	9700.2	9396.3	7513.5
35°	8885.7	8894.6	8655.5	8260.1	7782.0	7495.8	8015.2	10033.7	10452.8	10228.5	8041.7
37.5°	10016.0	10069.1	9939.3	9316.6	8891.6	8369.3	8567.0	10753.8	11344.0	11255.5	8705.7
40°	11016.4	11099.1	11057.7	10455.7	9898.0	9458.2	9422.8	11597.8	12421.1	12521.5	9582.2
42.5°	11813.2	11866.3	11898.8	11470.9	10978.1	10730.2	10479.3	12577.5	13693.1	14103.3	10656.4
45°	12654.3	12672.0	12739.9	12450.7	12019.8	12040.5	11727.6	13766.8	15032.9	15856.2	11889.9
47.5°	13725.5	13784.5	13752.1	13448.1	13058.6	13291.7	13017.3	14991.5	16354.9	17727.2	13153.0
50°	15029.9	15091.9	15062.4	14708.2	14274.4	14371.8	14200.6	16180.8	17629.8	19492.0	14203.6
52.5°	15702.8	15752.9	16118.9	16278.2	16051.0	15431.3	15209.9	17488.2	18707.0	20943.9	15168.6
55°	15378.1	15413.5	16210.3	16883.2	17715.4	17095.7	16225.1	18497.4	19657.2	22077.1	15885.7
57.5°	14032.4	14224.3	15307.3	16446.4	18196.4	18739.4	17871.8	19595.2	20572.1	22865.1	16591.0
60°	11273.2	11264.3	12816.6	14861.7	17258.0	19190.9	20197.3	21079.6	21489.8	23470.0	17535.4
62.5°	6229.8	6285.8	8351.6	11045.9	14649.2	18022.3	21941.4	23644.1	23582.2	24526.5	19013.9
65°	3101.6	3213.7	4335.2	6327.1	9747.5	14894.2	22242.4	27557.3	27380.2	27014.3	22068.3
67.5°	1968.4	2012.6	2632.4	3677.1	5418.2	9573.3	20368.4	30475.9	30886.1	29965.4	25099.0
70°	1274.9	1348.6	1829.7	2514.3	3269.8	4934.2	14920.7	28584.3	29525.7	29640.8	23210.3
72.5°	693.5	746.6	1168.6	1794.3	2360.9	2467.1	8381.1	21451.5	22965.4	25143.3	18158.1
75°	395.4	433.8	640.4	1218.8	1732.3	1502.1	3715.4	14360.0	15325.0	17969.2	13011.4
77.5°	239.0	271.5	360.0	593.2	1086.0	1003.4	1404.7	8741.1	9355.0	10721.3	6828.8
80°	109.2	129.8	227.2	327.6	593.2	475.1	537.1	4075.5	4208.3	4400.1	2260.5
82.5°	50.2	59.0	103.3	194.8	336.4	274.5	206.6	941.4	1325.0	1254.2	575.5
85°	5.9	5.9	38.4	79.7	94.4	70.8	85.6	212.5	268.5	377.7	165.3
87.5°	0.0	0.0	3.0	3.0	5.9	8.9	17.7	26.6	38.4	62.0	41.3
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°	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5	3588.5
2.5°	3644.6	3562.0	3488.2	3379.0	3305.2	3222.6	3166.5	3098.6	3072.1	3051.4	3021.9
5°	3727.2	3594.4	3414.4	3213.7	3048.5	2892.1	2747.5	2653.0	2570.4	2558.6	2517.3
7.5°	3863.0	3665.3	3361.3	3033.7	2753.4	2493.7	2290.0	2124.8	2042.2	2015.6	1968.4
10°	4043.0	3771.5	3281.6	2779.9	2375.6	2065.8	1835.6	1649.7	1519.8	1472.6	1437.2
12.5°	4243.7	3868.9	3154.7	2467.1	2006.7	1652.6	1360.5	1162.7	1080.1	1050.6	1024.0
15°	4473.9	3960.4	2954.0	2154.3	1646.7	1215.8	1009.3	923.7	888.3	879.4	870.6
17.5°	4695.2	4019.4	2715.0	1829.7	1266.0	944.3	847.0	814.5	805.6	796.8	790.9
20°	4946.0	4060.7	2434.6	1522.8	982.7	799.7	752.5	728.9	711.2	693.5	690.6
22.5°	5202.8	4060.7	2130.7	1221.8	823.4	717.1	664.0	619.7	587.3	569.6	563.7
25°	5447.7	4004.6	1829.7	976.8	726.0	637.4	569.6	519.4	475.1	454.5	448.6
27.5°	5621.8	3860.0	1567.0	826.3	658.1	566.6	484.0	427.9	392.5	371.8	368.9
30°	5731.0	3644.6	1325.0	737.8	599.1	492.8	410.2	363.0	336.4	321.7	315.8
32.5°	5813.6	3379.0	1109.6	675.8	543.0	427.9	357.1	318.7	295.1	283.3	280.4
35°	5978.9	3128.2	950.3	619.7	484.0	374.8	312.8	283.3	265.6	250.8	247.9
37.5°	6209.1	2918.6	823.4	569.6	427.9	333.5	283.3	256.7	242.0	227.2	224.3
40°	6548.5	2785.8	728.9	519.4	377.7	301.0	259.7	236.1	215.4	200.7	197.7
42.5°	7070.8	2723.9	666.9	469.2	333.5	271.5	239.0	209.5	188.9	174.1	171.2
45°	7693.5	2756.3	613.8	419.1	304.0	250.8	212.5	183.0	162.3	147.6	144.6
47.5°	8360.4	2871.4	569.6	371.8	274.5	230.2	188.9	156.4	138.7	123.9	121.0
50°	9056.9	3060.3	531.2	327.6	250.8	206.6	162.3	135.8	118.0	106.2	103.3
52.5°	9661.9	3317.0	492.8	295.1	230.2	183.0	141.7	118.0	100.3	88.5	85.6
55°	10240.3	3559.0	463.3	265.6	206.6	159.4	123.9	100.3	85.6	73.8	70.8
57.5°	10868.9	3815.8	427.9	239.0	185.9	141.7	109.2	85.6	73.8	62.0	59.0
60°	11783.7	4196.5	374.8	218.4	162.3	123.9	94.4	76.7	64.9	50.2	47.2
62.5°	13102.8	4890.0	315.8	188.9	138.7	106.2	79.7	64.9	53.1	41.3	35.4
65°	15570.0	6070.4	259.7	156.4	112.1	88.5	67.9	53.1	41.3	29.5	26.6
67.5°	17346.5	6377.3	209.5	126.9	91.5	67.9	56.1	41.3	29.5	20.7	17.7
70°	15165.7	4580.1	162.3	103.3	76.7	53.1	44.3	32.5	20.7	14.8	11.8
72.5°	11426.6	2992.4	121.0	79.7	59.0	44.3	32.5	26.6	17.7	11.8	8.9
75°	8053.5	1729.3	88.5	59.0	41.3	32.5	26.6	20.7	14.8	8.9	8.9
77.5°	4128.6	714.2	62.0	41.3	29.5	20.7	17.7	11.8	11.8	8.9	5.9
80°	1254.2	236.1	35.4	26.6	20.7	14.8	8.9	8.9	8.9	5.9	3.0
82.5°	286.3	76.7	20.7	20.7	14.8	11.8	8.9	3.0	3.0	0.0	0.0
85°	73.8	23.6	17.7	14.8	14.8	11.8	5.9	3.0	0.0	0.0	0.0
87.5°	26.6	14.8	14.8	14.8	11.8	8.9	5.9	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)