

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: P641244

Luminaire Tested: GWS-SA5F-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33661.2 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

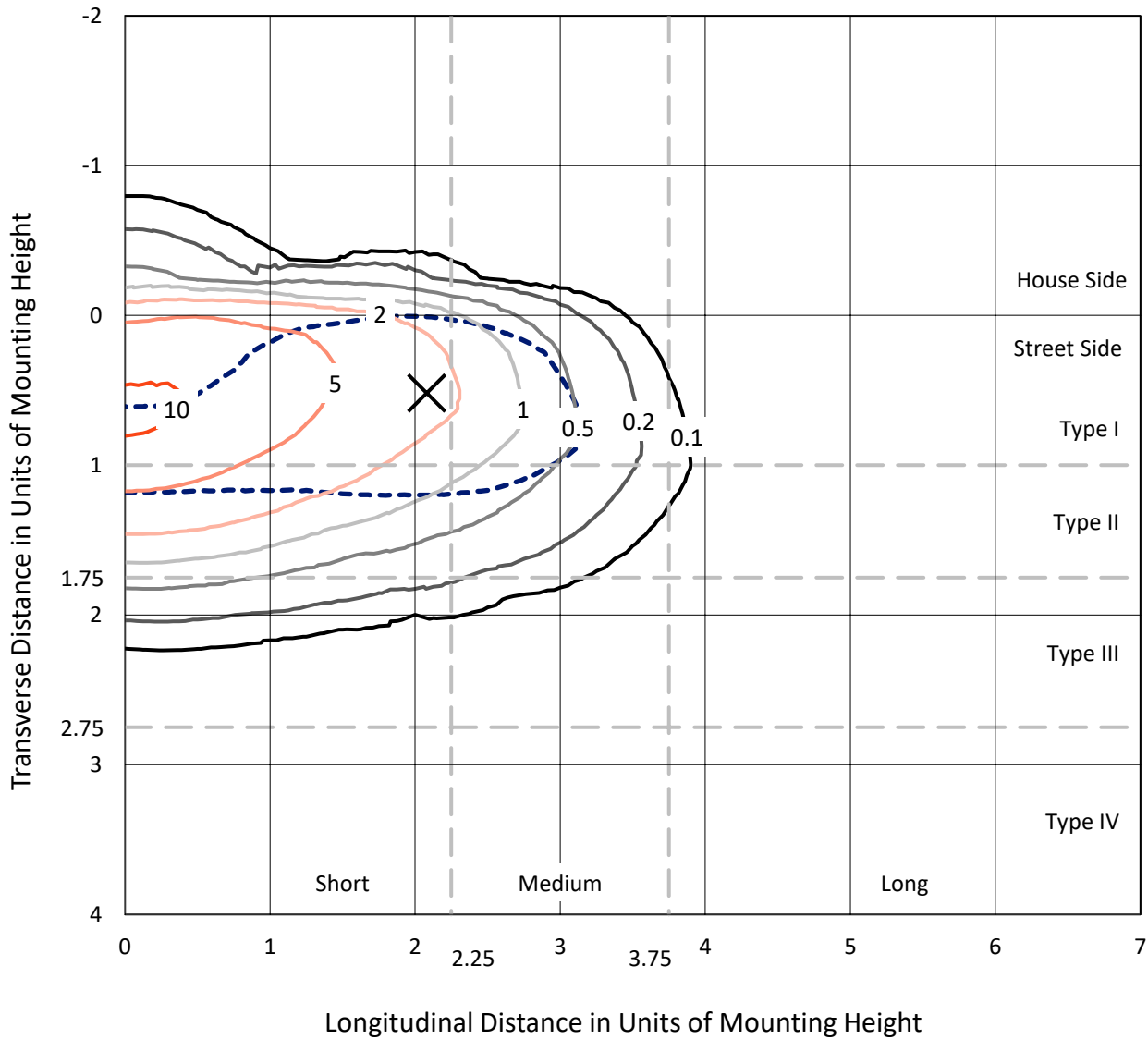
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

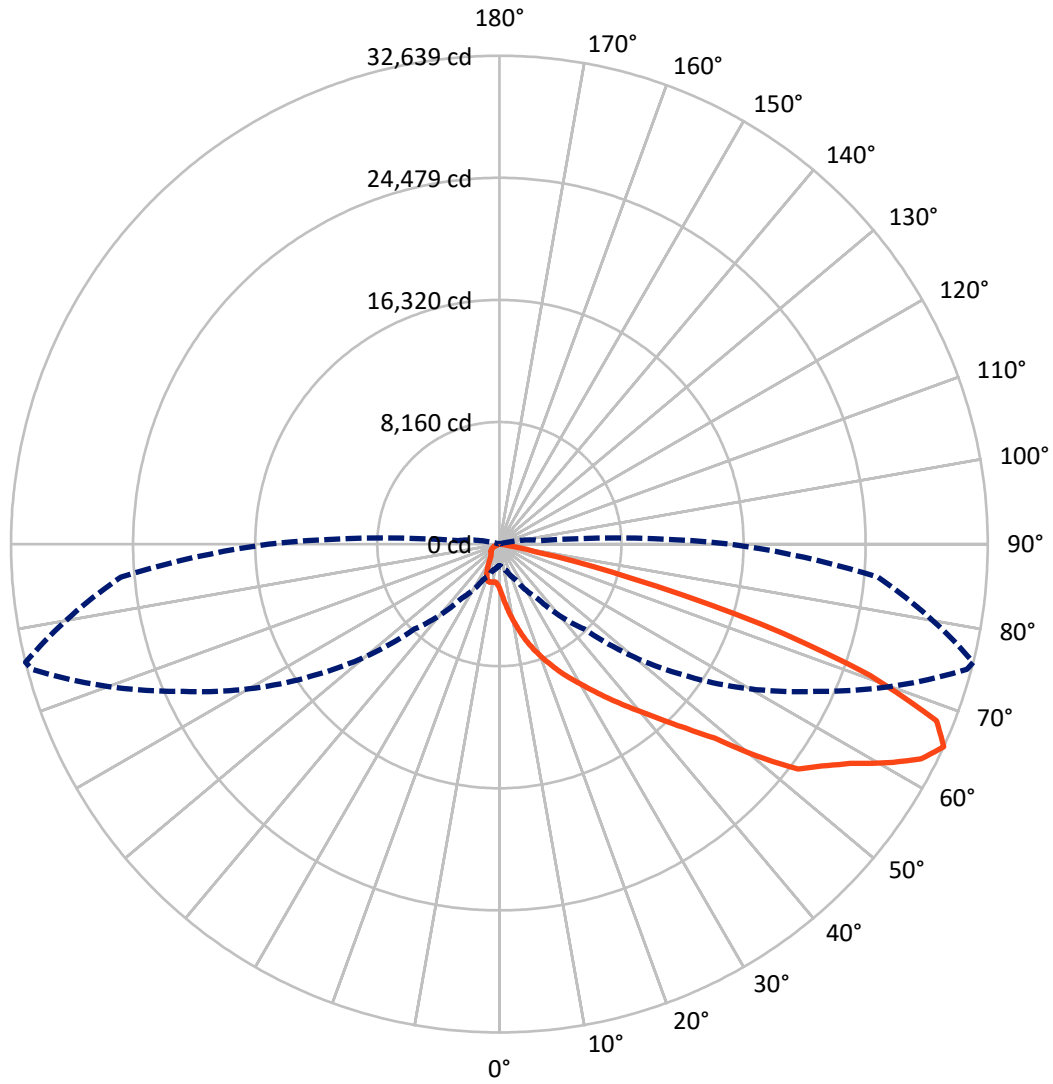
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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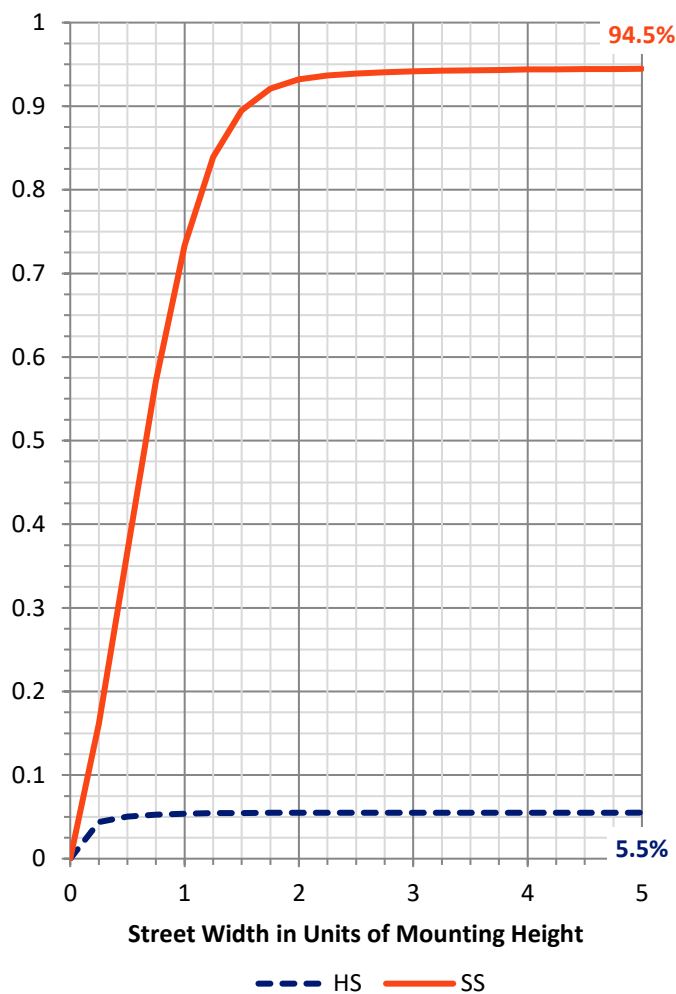
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.3	0.0	1861.3
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	31799.9	0.0	31799.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	33661.2	0.0	33661.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.6	1.1
10°-20°	1375.7	4.1
20°-30°	2806.7	8.3
30°-40°	4991.8	14.8
40°-50°	7379.1	21.9
50°-60°	8448.5	25.1
60°-70°	6445.8	19.1
70°-80°	1805.6	5.4
80°-90°	45.4	0.1
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°	33661.2	100.0
0°-180°	33661.2	100.0

Coefficient of Utilization



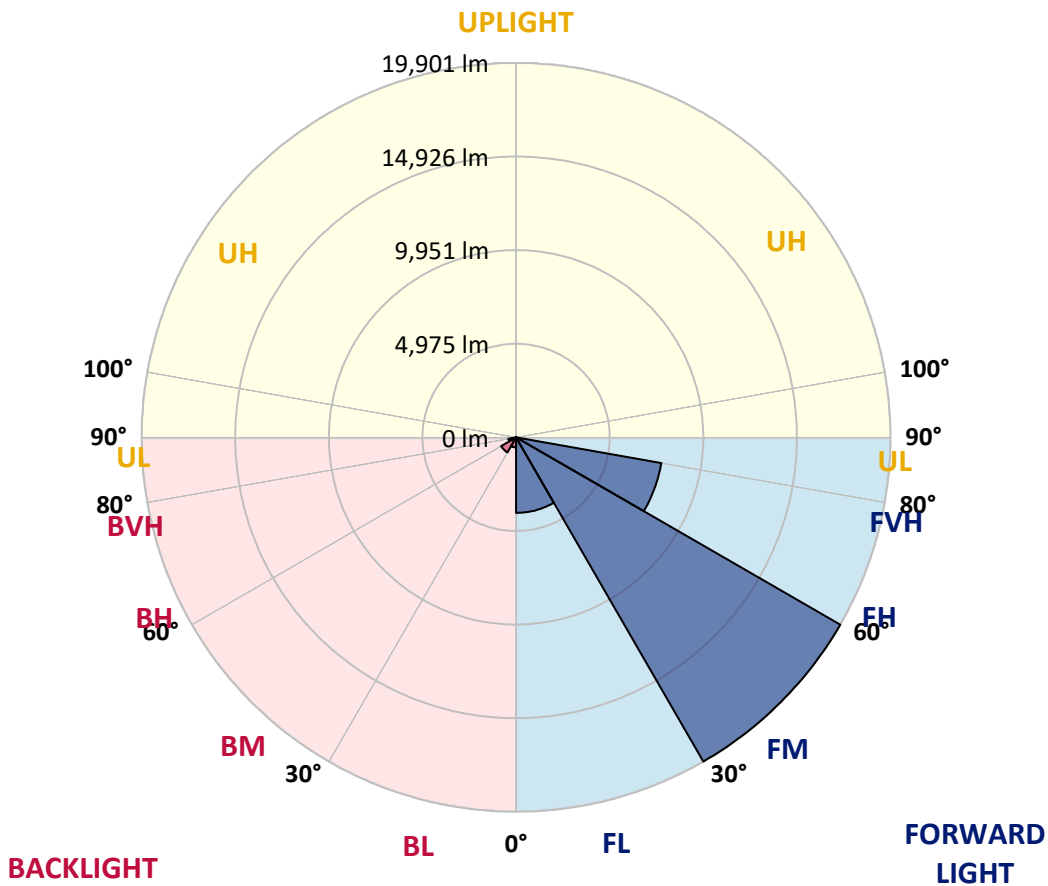
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4013.8	11.9			
FM (30°-60°)	19901.0	59.1			
FH (60°-80°)	7842.2	23.3			G4/12000
FVH (80°-90°)	42.8	0.1			G1/100
BL (0°-30°)	531.1	1.6	B2/1000		
BM (30°-60°)	918.3	2.7	B1/1000		
BH (60°-80°)	409.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.6	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°	75°	76°	85°
0°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	4593.0	4661.9	4608.0	4518.2	4344.7	4177.1	3961.7	3665.5	3429.1	3399.2	3177.7
5°	6202.9	6196.9	6080.2	5963.5	5781.0	5493.7	5059.8	4509.3	3979.6	3934.8	3438.1
7.5°	7160.4	7169.3	7103.5	7013.7	6834.2	6538.0	6086.2	5421.9	4646.9	4557.1	3794.1
10°	7965.3	7962.3	7914.4	7872.5	7710.9	7513.4	7028.7	6298.6	5365.0	5224.4	4192.1
12.5°	8569.7	8590.6	8614.6	8656.5	8587.7	8393.2	7935.3	7139.4	6092.1	5936.6	4646.9
15°	9048.5	9054.4	9144.2	9305.8	9362.6	9260.9	8845.0	7953.3	6810.3	6675.6	5170.5
17.5°	9192.1	9204.0	9356.6	9652.9	9952.1	10009.0	9694.8	8773.2	7516.4	7372.8	5679.2
20°	9494.3	9521.2	9634.9	9895.2	10272.3	10577.5	10454.8	9602.0	8222.6	8034.1	6199.9
22.5°	10445.8	10460.8	10421.9	10454.8	10649.3	11002.4	11077.2	10403.9	8946.7	8746.2	6762.4
25°	12082.6	12088.5	11816.2	11558.9	11412.3	11478.1	11642.7	11143.0	9664.8	9467.4	7286.0
27.5°	13782.1	13803.1	13476.9	13040.1	12516.4	12217.2	12169.3	11819.2	10389.0	10170.5	7803.7
30°	15383.0	15383.0	15038.9	14506.2	13806.1	13222.6	12878.5	12501.5	11163.9	10924.6	8333.3
32.5°	16822.2	16810.3	16370.4	15792.9	15101.7	14461.4	13737.2	13213.6	12025.7	11759.4	8943.7
35°	18010.1	17980.2	17480.5	16926.9	16187.9	15712.1	14904.2	13979.6	12959.3	12693.0	9572.1
37.5°	18907.8	18874.9	18417.1	17830.6	17145.4	16837.2	16160.9	14898.2	13943.7	13701.3	10269.3
40°	19395.5	19329.7	19012.5	18575.7	18001.2	17731.9	17450.6	16038.3	15101.7	14799.5	11092.1
42.5°	19539.1	19461.4	19251.9	19048.4	18701.3	18488.9	18791.1	17324.9	16373.4	16113.1	12031.7
45°	19114.3	19069.4	19051.4	19198.0	19260.9	19320.7	20065.8	18749.2	17776.7	17579.3	13213.6
47.5°	18090.9	18078.9	18237.5	18847.9	19512.2	20143.6	21451.2	20505.6	19596.0	19383.6	14865.3
50°	16199.8	16322.5	16765.4	17836.6	19165.1	20610.4	22746.8	22941.3	22540.3	22229.1	17019.7
52.5°	13243.5	13479.9	14473.3	16101.1	18010.1	20478.7	23345.2	24892.2	25302.2	24979.0	18563.7
55°	10392.0	10613.4	11499.1	13563.7	16110.1	19476.3	23372.2	25565.5	26460.1	26160.9	19608.0
57.5°	7740.9	7944.3	8749.2	10724.1	13524.8	17504.4	22731.8	25939.5	27833.6	27642.1	21256.7
60°	5059.8	5260.3	5987.4	7713.9	10490.7	14631.9	21154.9	25861.7	29703.7	29685.7	23282.4
62.5°	2806.7	2965.3	3491.9	4838.4	7321.9	11331.5	18677.4	25080.7	31514.0	31627.7	24952.1
65°	1436.3	1538.0	1858.2	2660.1	4431.5	8034.1	15418.9	23291.4	32351.8	32639.1	25391.9
67.5°	939.6	972.5	1050.3	1382.4	2372.8	5053.8	11603.8	20421.9	31172.9	31508.0	23916.8
70°	763.0	789.9	834.8	921.6	1223.8	2684.0	7621.2	16310.6	26047.2	26274.6	19045.4
72.5°	559.5	595.5	682.2	739.1	882.7	1472.2	3964.7	10706.1	17887.4	18288.4	11968.9
75°	412.9	433.9	505.7	583.5	721.1	930.6	1517.1	5628.4	9237.0	9003.6	5026.9
77.5°	248.4	263.3	323.2	374.0	514.7	580.5	529.6	2079.6	2809.7	2642.1	1214.8
80°	122.7	137.6	212.4	281.3	329.1	233.4	221.4	580.5	625.4	625.4	305.2
82.5°	41.9	53.9	113.7	185.5	161.6	89.8	104.7	149.6	167.6	176.5	89.8
85°	0.0	0.0	26.9	53.9	23.9	12.0	26.9	32.9	41.9	44.9	29.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.0	12.0	12.0
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°	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2	2980.2
2.5°	3058.0	2917.4	2705.0	2513.5	2366.8	2229.2	2124.5	2040.7	2025.7	1977.9	1983.8
5°	3195.7	2941.3	2549.4	2247.2	2034.7	1891.1	1771.4	1681.6	1642.7	1603.8	1573.9
7.5°	3408.1	3040.1	2489.5	2121.5	1873.1	1651.7	1466.2	1316.6	1244.8	1199.9	1170.0
10°	3668.5	3177.7	2492.5	2046.7	1678.6	1340.5	1086.2	921.6	843.8	819.9	816.9
12.5°	3979.6	3351.3	2516.5	1924.0	1397.4	996.4	804.9	730.1	706.2	685.2	685.2
15°	4308.8	3545.8	2516.5	1699.6	1065.2	778.0	697.2	649.3	619.4	607.4	601.4
17.5°	4655.9	3728.3	2456.6	1391.4	816.9	685.2	619.4	574.5	550.6	532.6	526.6
20°	5026.9	3901.8	2307.0	1065.2	700.2	613.4	550.6	505.7	481.7	463.8	463.8
22.5°	5403.9	4063.4	2064.6	819.9	619.4	544.6	484.7	442.8	418.9	401.0	401.0
25°	5754.0	4171.1	1753.4	676.2	559.5	484.7	430.9	389.0	362.1	350.1	344.1
27.5°	6080.2	4240.0	1409.3	595.5	502.7	433.9	377.0	338.1	317.2	308.2	302.2
30°	6418.3	4257.9	1077.2	541.6	454.8	383.0	329.1	299.2	281.3	269.3	269.3
32.5°	6747.4	4237.0	822.9	496.7	412.9	338.1	293.2	266.3	251.3	242.4	239.4
35°	7082.6	4141.2	667.3	457.8	371.0	296.2	260.3	239.4	230.4	218.4	218.4
37.5°	7447.6	4012.6	580.5	418.9	329.1	266.3	233.4	218.4	206.5	197.5	194.5
40°	7902.4	3862.9	532.6	386.0	290.2	239.4	209.5	194.5	185.5	176.5	173.5
42.5°	8441.0	3716.3	508.7	350.1	260.3	212.4	188.5	170.6	161.6	149.6	146.6
45°	9204.0	3683.4	481.7	311.2	233.4	191.5	164.6	146.6	134.6	125.7	122.7
47.5°	10430.9	3776.2	436.9	269.3	206.5	167.6	140.6	125.7	110.7	101.7	95.8
50°	11648.7	3752.2	392.0	233.4	182.5	143.6	119.7	104.7	89.8	80.8	77.8
52.5°	12313.0	3638.5	350.1	206.5	158.6	122.7	101.7	83.8	74.8	65.8	62.8
55°	12914.4	3593.6	308.2	179.5	134.6	107.7	83.8	68.8	62.8	53.9	50.9
57.5°	14093.3	3698.4	272.3	155.6	116.7	92.8	71.8	56.9	50.9	41.9	38.9
60°	15326.1	3710.3	233.4	134.6	101.7	77.8	56.9	44.9	38.9	29.9	26.9
62.5°	15969.4	3408.1	191.5	113.7	83.8	65.8	47.9	35.9	29.9	18.0	18.0
65°	15430.8	2755.8	161.6	92.8	65.8	50.9	35.9	26.9	18.0	9.0	3.0
67.5°	13656.5	1959.9	134.6	74.8	47.9	35.9	26.9	18.0	3.0	0.0	0.0
70°	10000.0	1119.1	104.7	53.9	35.9	23.9	18.0	9.0	0.0	0.0	0.0
72.5°	6146.0	598.4	77.8	35.9	26.9	18.0	15.0	6.0	0.0	0.0	0.0
75°	2330.9	287.3	47.9	23.9	20.9	15.0	9.0	3.0	0.0	0.0	0.0
77.5°	631.4	140.6	26.9	18.0	15.0	9.0	6.0	0.0	0.0	0.0	0.0
80°	164.6	65.8	18.0	12.0	9.0	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.9	29.9	9.0	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	23.9	12.0	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	3.0	3.0	3.0	3.0	0.0	0.0	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)