

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: P640859

Luminaire Tested: GWS-SA5E-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640859
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-SA5E-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30545.1 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

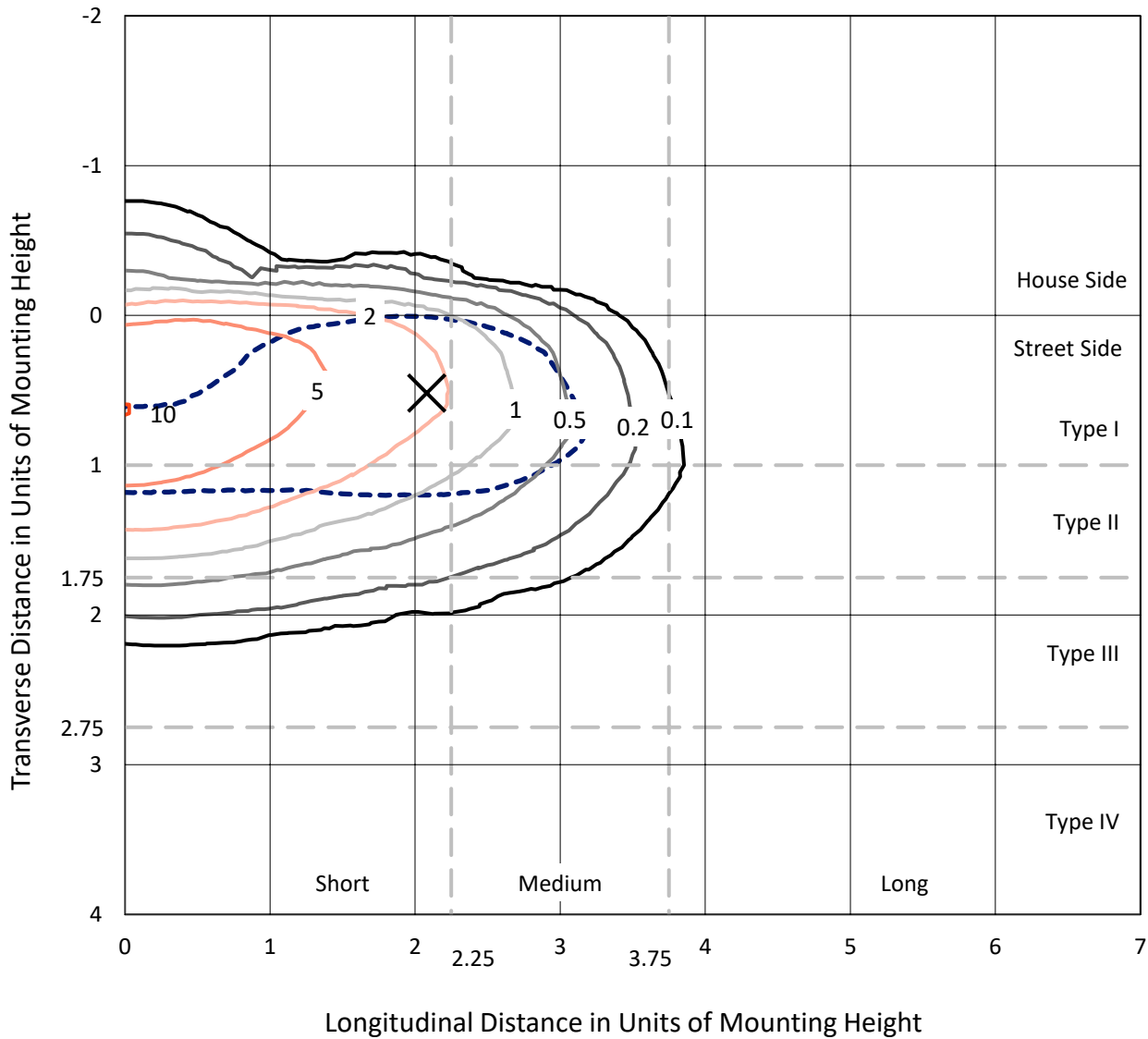
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

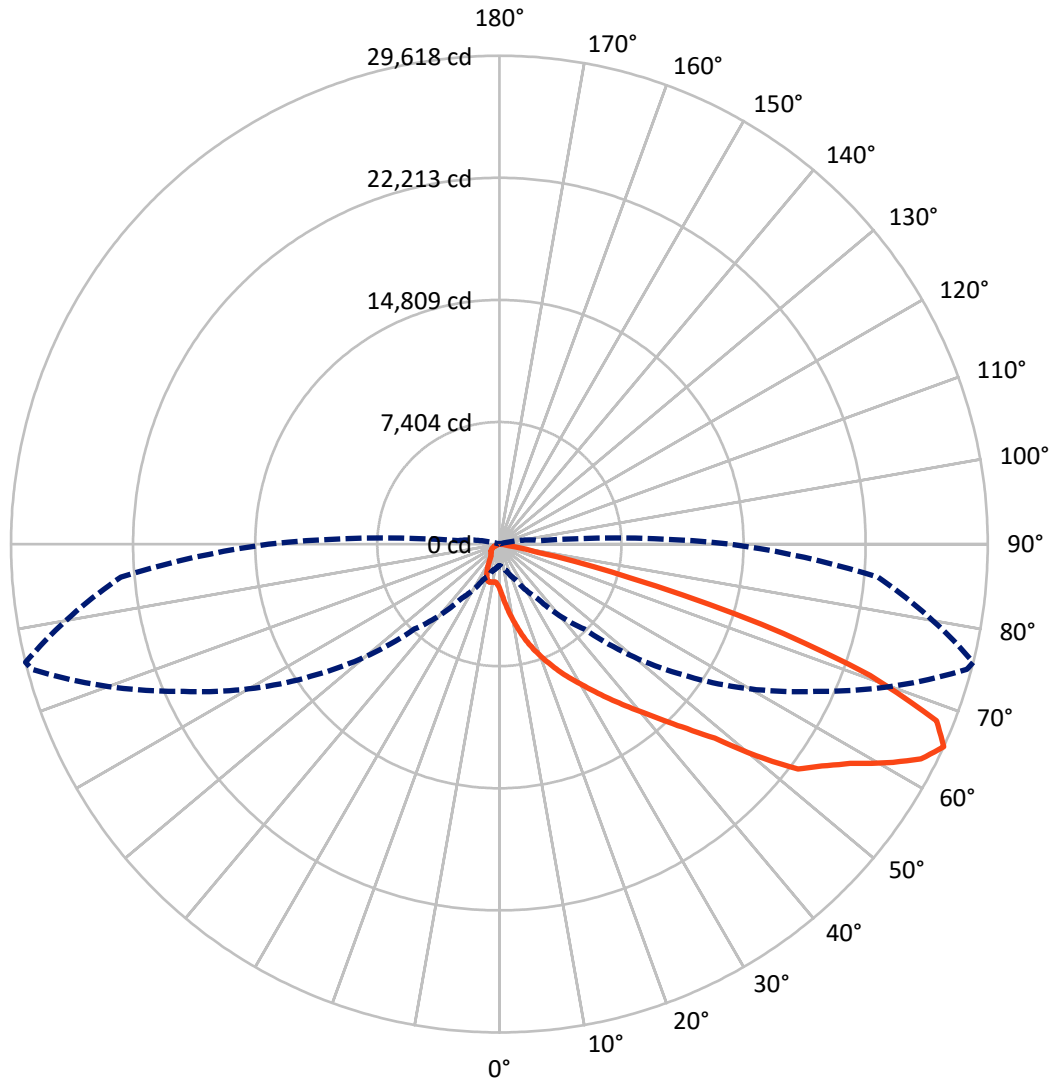
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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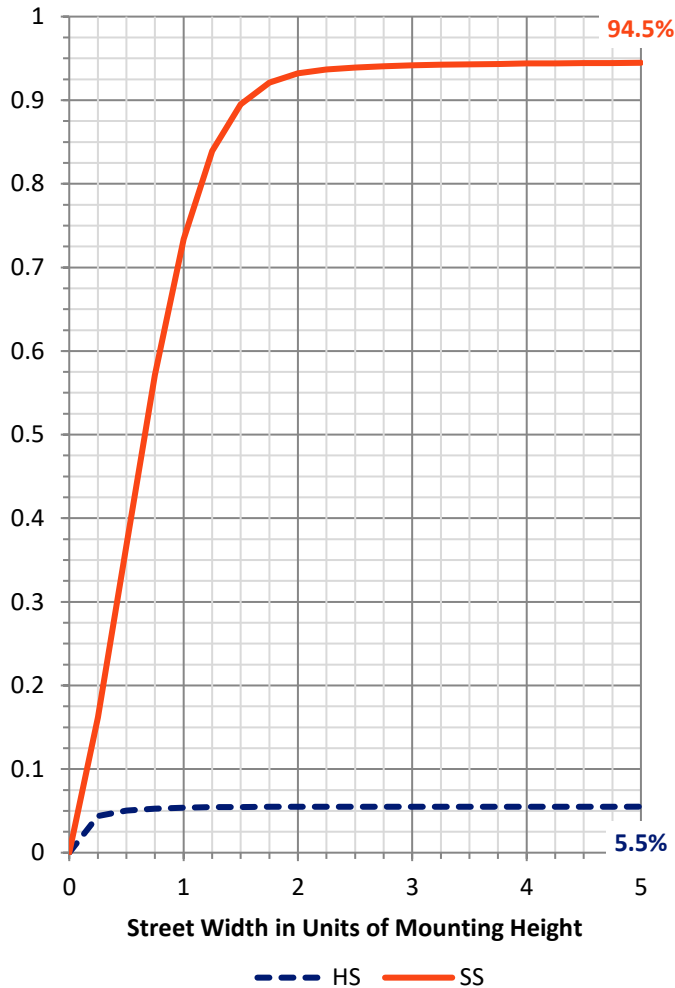
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.0	0.0	1689.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	28856.1	0.0	28856.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	30545.1	0.0	30545.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	1.1
10°-20°	1248.4	4.1
20°-30°	2546.9	8.3
30°-40°	4529.7	14.8
40°-50°	6696.0	21.9
50°-60°	7666.4	25.1
60°-70°	5849.1	19.1
70°-80°	1638.5	5.4
80°-90°	41.2	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°	30545.1	100.0
0°-180°	30545.1	100.0

Coefficient of Utilization



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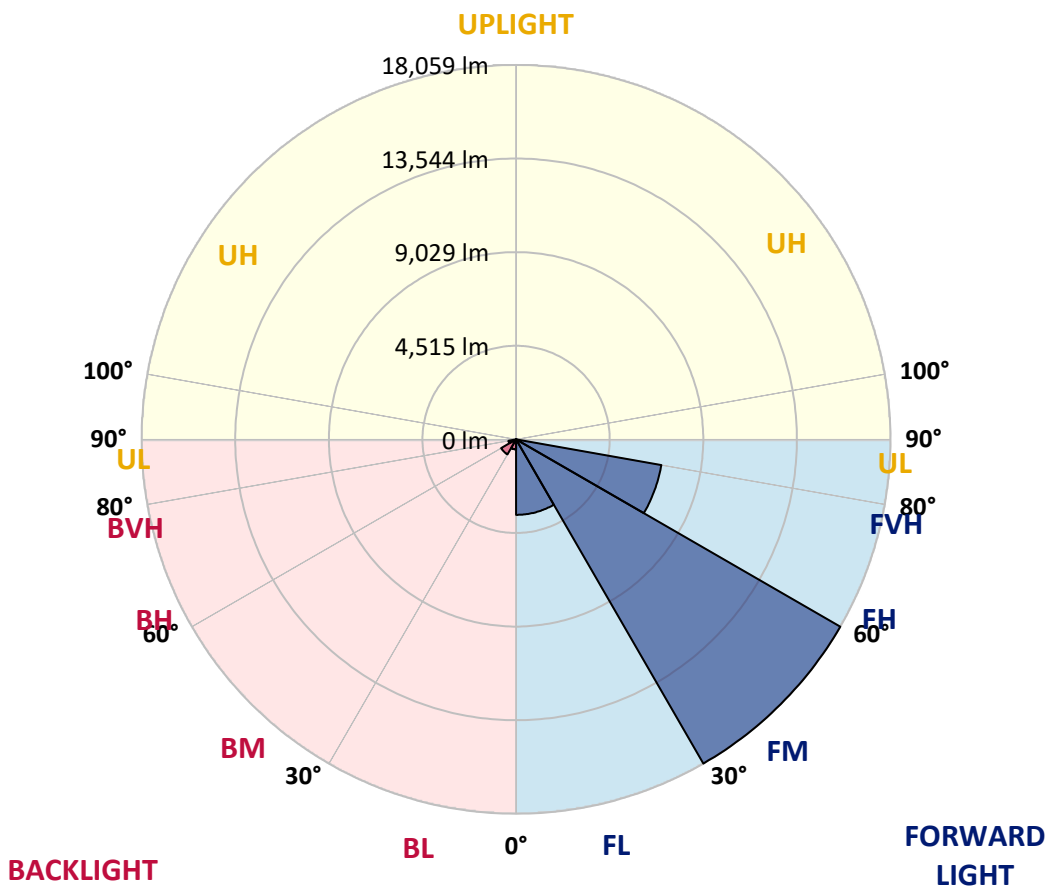
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3642.3	11.9			
FM (30°-60°)	18058.8	59.1			
FH (60°-80°)	7116.3	23.3			G3/7500
FVH (80°-90°)	38.8	0.1			G1/100
BL (0°-30°)	482.0	1.6	B1/500		
BM (30°-60°)	833.3	2.7	B1/1000		
BH (60°-80°)	371.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4
2.5°	4167.9	4230.3	4181.4	4100.0	3942.5	3790.4	3594.9	3326.1	3111.6	3084.5	2883.6
5°	5628.6	5623.2	5517.3	5411.4	5245.8	4985.1	4591.4	4091.8	3611.2	3570.5	3119.8
7.5°	6497.5	6505.7	6445.9	6364.5	6201.6	5932.7	5522.8	4920.0	4216.7	4135.3	3442.9
10°	7227.9	7225.2	7181.7	7143.7	6997.1	6817.9	6378.0	5715.5	4868.4	4740.8	3804.0
12.5°	7776.4	7795.4	7817.1	7855.1	7792.7	7616.2	7200.8	6478.5	5528.2	5387.0	4216.7
15°	8210.8	8216.2	8297.7	8444.3	8495.9	8403.6	8026.2	7217.0	6179.8	6057.6	4691.9
17.5°	8341.1	8352.0	8490.5	8759.3	9030.8	9082.4	8797.3	7961.0	6820.6	6690.3	5153.5
20°	8615.4	8639.8	8743.0	8979.2	9321.3	9598.3	9487.0	8713.1	7461.4	7290.4	5625.9
22.5°	9478.8	9492.4	9457.1	9487.0	9663.5	9983.9	10051.7	9440.8	8118.5	7936.6	6136.4
25°	10964.0	10969.5	10722.4	10488.9	10355.8	10415.6	10564.9	10111.5	8770.1	8590.9	6611.6
27.5°	12506.3	12525.3	12229.3	11832.9	11357.7	11086.2	11042.8	10725.1	9427.2	9229.0	7081.3
30°	13958.9	13958.9	13646.7	13163.4	12528.0	11998.5	11686.3	11344.2	10130.5	9913.3	7561.9
32.5°	15264.9	15254.1	14854.9	14330.9	13703.7	13122.6	12465.6	11990.4	10912.5	10670.8	8115.8
35°	16342.9	16315.7	15862.3	15360.0	14689.3	14257.6	13524.5	12685.5	11759.6	11517.9	8686.0
37.5°	17157.5	17127.6	16712.2	16180.0	15558.2	15278.5	14664.9	13519.1	12652.9	12433.0	9318.6
40°	17600.0	17540.3	17252.5	16856.1	16334.7	16090.4	15835.1	14553.6	13703.7	13429.5	10065.3
42.5°	17730.4	17659.8	17469.7	17285.1	16970.1	16777.3	17051.6	15721.1	14857.7	14621.4	10917.9
45°	17344.8	17304.1	17287.8	17420.8	17477.8	17532.2	18208.2	17013.5	16131.1	15951.9	11990.4
47.5°	16416.2	16405.3	16549.2	17103.1	17705.9	18278.8	19465.4	18607.4	17782.0	17589.2	13489.2
50°	14700.2	14811.5	15213.4	16185.4	17391.0	18702.4	20641.1	20817.6	20453.7	20171.3	15444.2
52.5°	12017.5	12232.0	13133.5	14610.6	16342.9	18582.9	21184.1	22587.9	22959.9	22666.6	16845.2
55°	9429.9	9630.9	10434.6	12308.1	14618.7	17673.3	21208.6	23198.8	24010.7	23739.1	17792.8
57.5°	7024.3	7208.9	7939.3	9731.3	12272.8	15884.0	20627.5	23538.2	25256.9	25083.2	19288.9
60°	4591.4	4773.4	5433.1	6999.8	9519.5	13277.4	19196.6	23467.6	26954.0	26937.7	21127.1
62.5°	2546.9	2690.8	3168.7	4390.5	6644.1	10282.5	16948.4	22758.9	28596.7	28699.8	22642.2
65°	1303.3	1395.6	1686.1	2413.8	4021.2	7290.4	13991.5	21135.2	29356.9	29617.6	23041.3
67.5°	852.6	882.4	953.0	1254.4	2153.2	4586.0	10529.6	18531.4	28287.1	28591.2	21702.7
70°	692.4	716.8	757.5	836.3	1110.5	2435.5	6915.7	14800.6	23636.0	23842.3	17282.4
72.5°	507.7	540.3	619.1	670.7	801.0	1335.9	3597.7	9715.0	16231.6	16595.4	10860.9
75°	374.7	393.7	458.9	529.5	654.4	844.4	1376.6	5107.3	8381.9	8170.1	4561.6
77.5°	225.4	238.9	293.2	339.4	467.0	526.8	480.6	1887.1	2549.6	2397.5	1102.4
80°	111.3	124.9	192.8	255.2	298.7	211.8	200.9	526.8	567.5	567.5	277.0
82.5°	38.0	48.9	103.2	168.3	146.6	81.5	95.0	135.8	152.1	160.2	81.5
85°	0.0	0.0	24.4	48.9	21.7	10.9	24.4	29.9	38.0	40.7	27.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.1	10.9	10.9
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°	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4	2704.4
2.5°	2775.0	2647.3	2454.6	2280.8	2147.7	2022.8	1927.8	1851.8	1838.2	1794.8	1800.2
5°	2899.9	2669.1	2313.4	2039.1	1846.3	1716.0	1607.4	1526.0	1490.7	1455.4	1428.2
7.5°	3092.6	2758.7	2259.1	1925.1	1699.7	1498.8	1330.5	1194.7	1129.5	1088.8	1061.6
10°	3328.9	2883.6	2261.8	1857.2	1523.2	1216.4	985.6	836.3	765.7	744.0	741.3
12.5°	3611.2	3041.0	2283.5	1745.9	1268.0	904.2	730.4	662.5	640.8	621.8	621.8
15°	3909.9	3217.5	2283.5	1542.2	966.6	706.0	632.6	589.2	562.0	551.2	545.8
17.5°	4224.9	3383.2	2229.2	1262.6	741.3	621.8	562.0	521.3	499.6	483.3	477.9
20°	4561.6	3540.6	2093.4	966.6	635.4	556.6	499.6	458.9	437.1	420.9	420.9
22.5°	4903.7	3687.3	1873.5	744.0	562.0	494.2	439.9	401.9	380.1	363.8	363.8
25°	5221.4	3785.0	1591.1	613.6	507.7	439.9	391.0	353.0	328.5	317.7	312.2
27.5°	5517.3	3847.5	1278.9	540.3	456.2	393.7	342.1	306.8	287.8	279.7	274.2
30°	5824.1	3863.8	977.5	491.5	412.7	347.5	298.7	271.5	255.2	244.4	244.4
32.5°	6122.8	3844.7	746.7	450.7	374.7	306.8	266.1	241.7	228.1	219.9	217.2
35°	6426.9	3757.9	605.5	415.4	336.7	268.8	236.2	217.2	209.1	198.2	198.2
37.5°	6758.2	3641.1	526.8	380.1	298.7	241.7	211.8	198.2	187.3	179.2	176.5
40°	7170.9	3505.3	483.3	350.3	263.4	217.2	190.1	176.5	168.3	160.2	157.5
42.5°	7659.6	3372.3	461.6	317.7	236.2	192.8	171.1	154.8	146.6	135.8	133.0
45°	8352.0	3342.4	437.1	282.4	211.8	173.8	149.3	133.0	122.2	114.0	111.3
47.5°	9465.2	3426.6	396.4	244.4	187.3	152.1	127.6	114.0	100.5	92.3	86.9
50°	10570.3	3404.9	355.7	211.8	165.6	130.3	108.6	95.0	81.5	73.3	70.6
52.5°	11173.1	3301.7	317.7	187.3	143.9	111.3	92.3	76.0	67.9	59.7	57.0
55°	11718.9	3261.0	279.7	162.9	122.2	97.7	76.0	62.4	57.0	48.9	46.2
57.5°	12788.7	3356.0	247.1	141.2	105.9	84.2	65.2	51.6	46.2	38.0	35.3
60°	13907.3	3366.9	211.8	122.2	92.3	70.6	51.6	40.7	35.3	27.2	24.4
62.5°	14491.1	3092.6	173.8	103.2	76.0	59.7	43.4	32.6	27.2	16.3	16.3
65°	14002.4	2500.7	146.6	84.2	59.7	46.2	32.6	24.4	16.3	8.1	2.7
67.5°	12392.2	1778.5	122.2	67.9	43.4	32.6	24.4	16.3	2.7	0.0	0.0
70°	9074.3	1015.5	95.0	48.9	32.6	21.7	16.3	8.1	0.0	0.0	0.0
72.5°	5577.1	543.0	70.6	32.6	24.4	16.3	13.6	5.4	0.0	0.0	0.0
75°	2115.2	260.7	43.4	21.7	19.0	13.6	8.1	2.7	0.0	0.0	0.0
77.5°	572.9	127.6	24.4	16.3	13.6	8.1	5.4	0.0	0.0	0.0	0.0
80°	149.3	59.7	16.3	10.9	8.1	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.6	27.2	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
85°	21.7	10.9	5.4	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	2.7	2.7	2.7	2.7	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)