

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: P643662

Luminaire Tested: GWS-SA6F-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32905.9 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

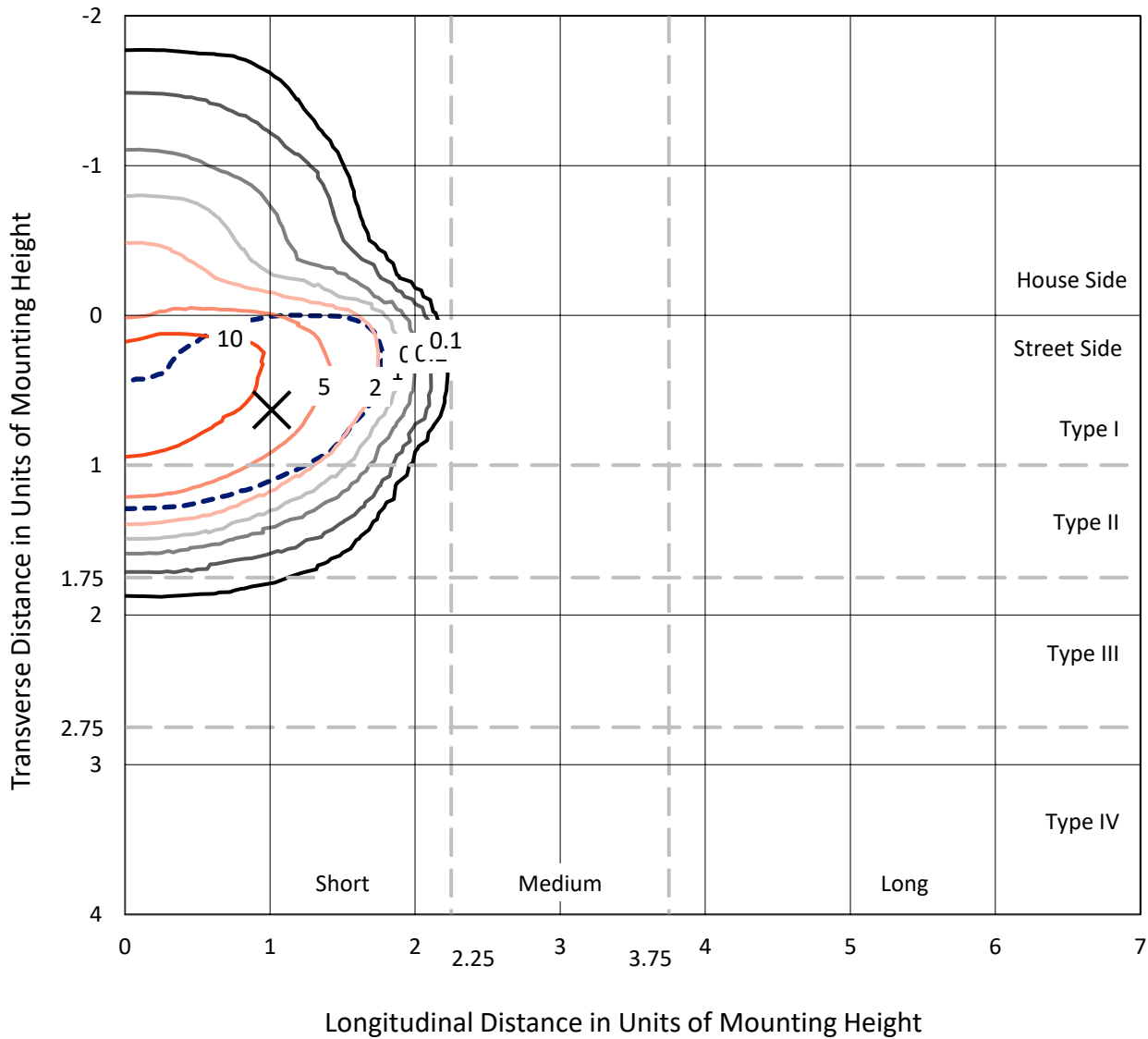
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

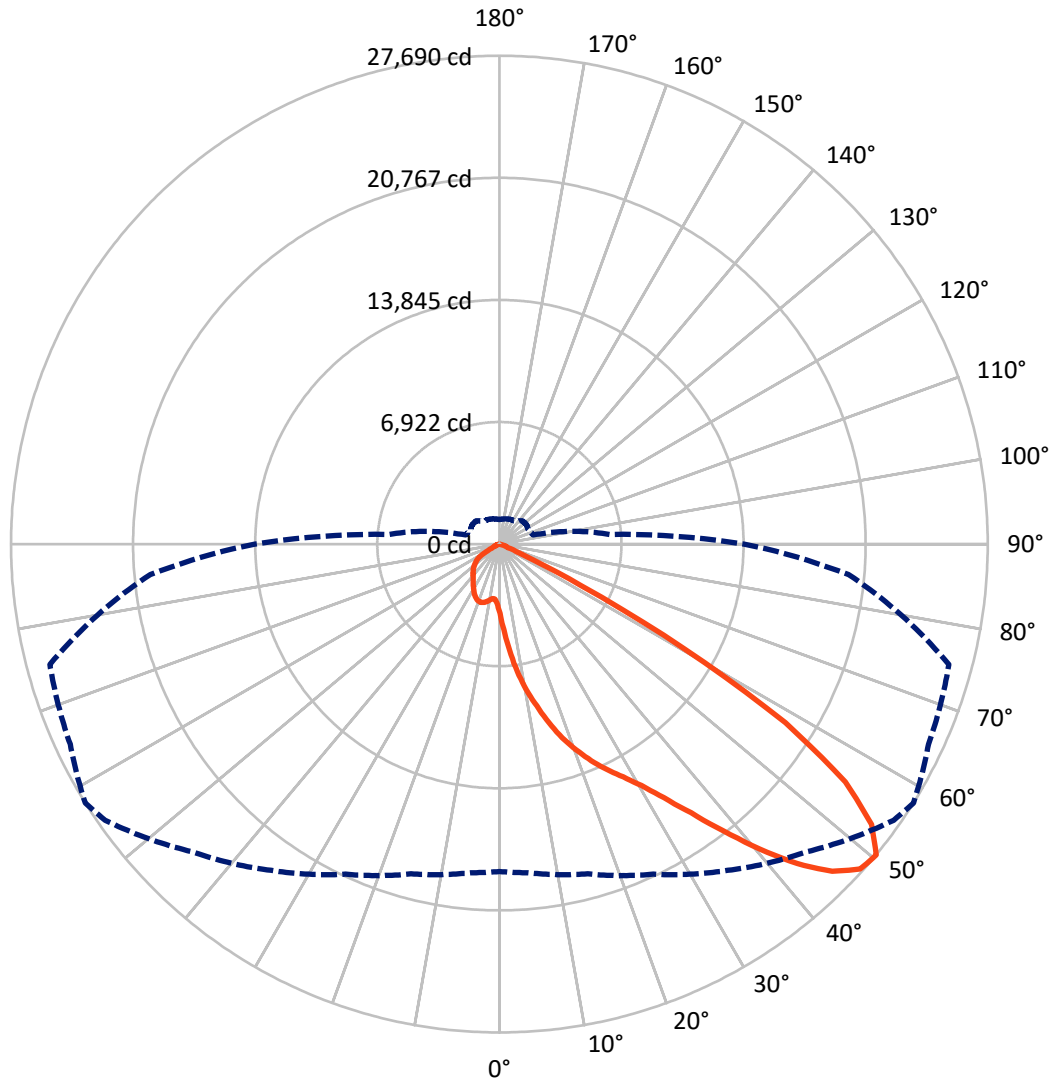
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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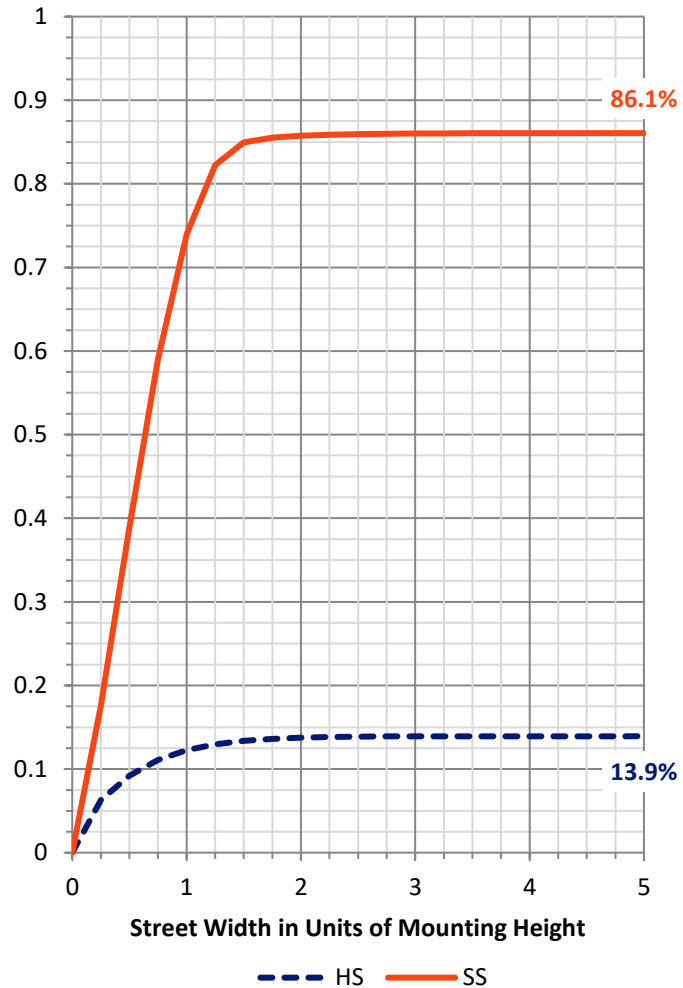
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4608.9	0.0	4608.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	28297.0	0.0	28297.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	32905.9	0.0	32905.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.9	1.5
10°-20°	1927.6	5.9
20°-30°	3900.6	11.9
30°-40°	6900.7	21.0
40°-50°	10059.7	30.6
50°-60°	8063.1	24.5
60°-70°	1452.6	4.4
70°-80°	114.5	0.3
80°-90°	0.1	0.0
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°	32905.9	100.0
0°-180°	32905.9	100.0

Coefficient of Utilization



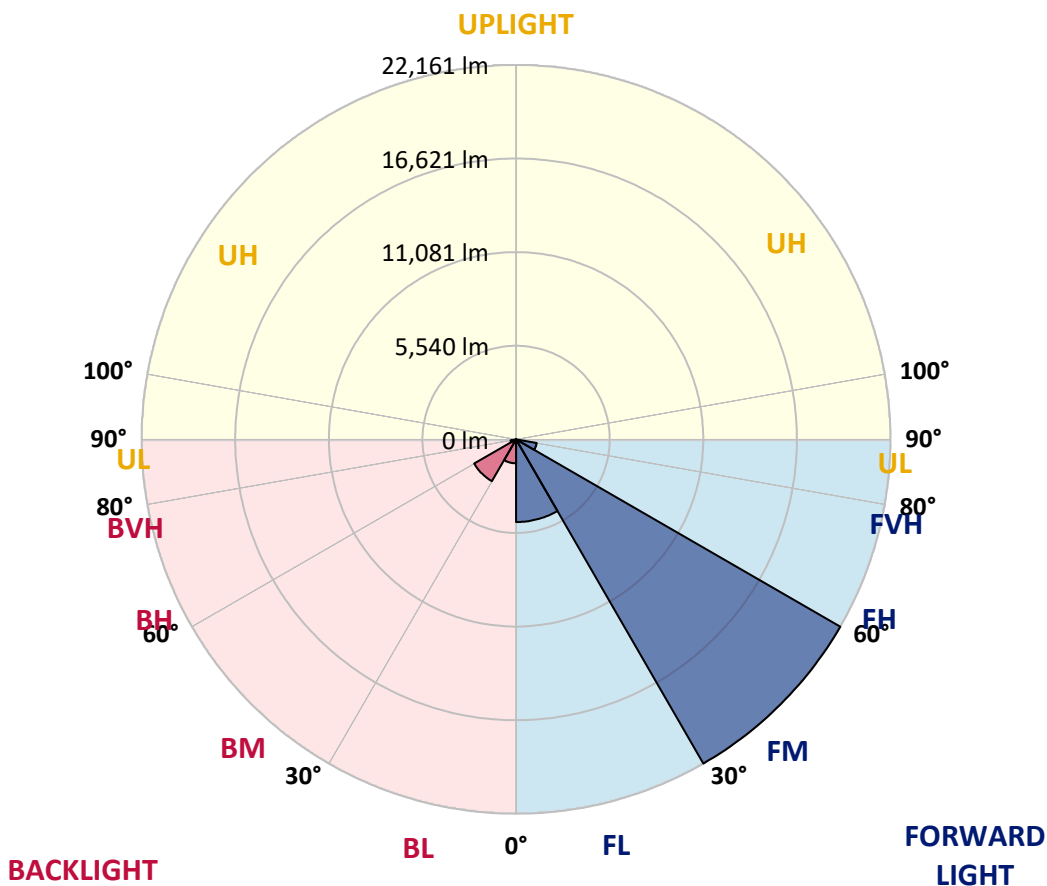
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4896.3	14.9			
FM (30°-60°)	22161.1	67.3			
FH (60°-80°)	1239.5	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1418.9	4.3	B3/2500		
BM (30°-60°)	2862.4	8.7	B3/5000		
BH (60°-80°)	327.6	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6
2.5°	5816.7	5725.2	5672.4	5630.2	5443.7	5148.1	4954.5	4852.5	4683.6	4398.6	4152.2
5°	7590.2	7523.3	7400.1	7315.7	7076.4	6657.7	6224.8	6052.4	5668.9	5024.9	4447.8
7.5°	8765.5	8716.2	8670.4	8557.8	8332.6	7952.6	7474.0	7294.6	6703.4	5788.5	4841.9
10°	9669.8	9631.1	9578.3	9574.8	9398.8	9057.5	8589.5	8403.0	7762.6	6619.0	5306.4
12.5°	10465.1	10433.4	10422.8	10521.4	10408.8	10155.4	9648.7	9416.4	8737.3	7467.0	5820.2
15°	11010.5	11003.4	11049.2	11242.7	11306.1	11189.9	10764.2	10514.3	9733.1	8318.6	6386.7
17.5°	11260.3	11281.4	11369.4	11703.7	11985.2	12083.7	11756.5	11545.3	10721.9	9180.7	6992.0
20°	11686.1	11679.1	11731.8	12048.5	12393.4	12745.3	12646.7	12467.3	11721.3	10092.1	7664.1
22.5°	12886.0	12784.0	12671.4	12720.6	12843.8	13255.5	13438.5	13347.0	12752.3	11028.1	8357.3
25°	14729.9	14624.3	14261.9	13910.0	13677.8	13864.3	14114.1	14159.8	13776.3	11988.7	9082.1
27.5°	16686.4	16591.4	16183.2	15655.4	14990.3	14666.6	14853.1	14944.5	14782.7	13132.3	9852.8
30°	18519.7	18393.0	17946.1	17291.6	16521.0	16024.8	15813.7	15877.0	15972.1	14487.1	10757.1
32.5°	20110.2	20015.2	19480.3	18790.6	18048.2	17530.9	17038.3	17143.8	17376.1	16144.5	11914.8
35°	21457.9	21408.7	20842.1	20156.0	19371.3	19107.3	18685.1	18706.2	18938.4	18146.7	13325.9
37.5°	22629.7	22545.3	22031.5	21394.6	20771.8	20729.5	20613.4	20624.0	20743.6	20479.7	14948.1
40°	23368.7	23291.3	22925.3	22531.2	22087.8	22094.8	22696.6	22742.3	22605.1	22770.5	16661.7
42.5°	23646.7	23590.4	23393.3	23396.8	23351.1	23558.7	24688.2	24772.7	24280.1	24568.6	18125.6
45°	23164.6	23139.9	23154.0	23660.7	24209.7	24850.1	26317.5	26465.3	25768.5	25761.5	19269.2
47.5°	21609.2	21560.0	21971.7	22833.8	24104.1	25349.8	27302.7	27531.5	26810.1	26444.1	19987.1
50°	18561.9	18702.7	19353.7	20648.6	22580.4	24663.6	27292.2	27689.8	26848.8	26384.3	19867.4
52.5°	13445.5	13417.4	14842.5	16623.0	18973.6	22467.8	25842.4	26423.0	25909.3	25796.7	19600.0
55°	7315.7	7572.6	8533.2	10890.8	13825.6	18312.1	22531.2	23798.0	24392.7	25582.0	20082.1
57.5°	2688.4	2801.0	3402.7	5070.7	7319.2	11387.0	17210.7	19121.4	20958.3	24983.8	20001.1
60°	1083.8	1104.9	1344.2	1865.0	3075.5	5795.5	10324.3	12020.4	13751.7	19124.9	15349.2
62.5°	788.2	816.4	911.4	1090.8	1555.3	2533.6	4451.3	5176.2	5658.3	9472.7	7562.0
65°	636.9	658.0	735.4	816.4	1027.5	1361.8	1435.7	1382.9	1375.9	2449.1	1734.8
67.5°	527.8	548.9	605.2	661.5	739.0	679.1	492.6	517.3	422.3	418.7	341.3
70°	387.1	411.7	468.0	527.8	443.4	183.0	285.0	422.3	320.2	267.4	260.4
72.5°	292.1	309.7	362.4	344.8	130.2	70.4	190.0	306.1	246.3	197.1	193.5
75°	218.2	228.7	183.0	56.3	14.1	17.6	70.4	126.7	137.2	112.6	112.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.0	10.6	14.1	17.6	21.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6	3930.6
2.5°	4011.5	3863.7	3652.6	3476.6	3342.9	3212.7	3114.2	3015.7	3012.1	2962.9	2952.3
5°	4180.4	3913.0	3525.9	3247.9	3079.0	2976.9	2906.6	2871.4	2853.8	2836.2	2829.2
7.5°	4423.2	4039.6	3504.8	3209.2	3068.4	3001.6	2952.3	2931.2	2920.6	2906.6	2903.0
10°	4722.3	4222.6	3582.2	3283.1	3159.9	3096.6	3043.8	3012.1	2994.5	2969.9	2962.9
12.5°	5081.2	4447.8	3705.3	3406.2	3276.0	3191.6	3121.2	3075.5	3050.8	3019.2	3012.1
15°	5468.3	4690.6	3842.6	3518.8	3364.0	3254.9	3167.0	3096.6	3050.8	3012.1	3001.6
17.5°	5869.4	4936.9	3965.7	3596.3	3406.2	3276.0	3149.4	3054.4	2998.1	2948.8	2934.7
20°	6319.9	5190.3	4046.7	3610.3	3392.2	3219.7	3072.0	2952.3	2896.0	2829.2	2815.1
22.5°	6791.4	5426.1	4081.9	3578.7	3314.8	3114.2	2955.8	2832.7	2751.7	2681.4	2660.2
25°	7248.8	5637.2	4064.3	3490.7	3198.6	2966.4	2804.5	2677.8	2589.9	2519.5	2501.9
27.5°	7734.4	5813.1	4000.9	3360.5	3040.3	2804.5	2649.7	2540.6	2459.7	2382.3	2364.7
30°	8279.8	5975.0	3898.9	3202.2	2853.8	2639.1	2519.5	2445.6	2357.6	2276.7	2252.1
32.5°	8937.9	6119.3	3751.1	3012.1	2688.4	2494.9	2428.0	2371.7	2269.7	2185.2	2167.6
35°	9690.9	6238.9	3564.6	2815.1	2526.5	2403.4	2389.3	2315.4	2181.7	2083.2	2062.0
37.5°	10563.6	6355.0	3342.9	2621.5	2406.9	2361.1	2364.7	2238.0	2076.1	1956.5	1942.4
40°	11503.1	6471.2	3096.6	2452.6	2297.8	2336.5	2304.8	2125.4	1861.5	1745.3	1731.3
42.5°	12481.4	6597.8	2846.7	2294.3	2206.3	2241.5	2195.8	1900.2	1710.2	1650.3	1643.3
45°	13364.6	6749.2	2575.8	2135.9	2114.8	2104.3	2026.9	1720.7	1639.8	1597.6	1594.0
47.5°	14001.5	6724.5	2287.3	1984.6	2016.3	1981.1	1745.3	1636.3	1569.4	1513.1	1499.0
50°	13885.4	6295.2	1988.1	1815.7	1889.6	1858.0	1569.4	1537.7	1477.9	1418.1	1397.0
52.5°	13589.8	5711.1	1727.8	1636.3	1752.4	1678.5	1449.8	1418.1	1365.3	1287.9	1263.3
55°	13748.1	5162.2	1523.7	1492.0	1611.6	1389.9	1316.0	1266.8	1210.5	1126.0	1115.5
57.5°	13237.9	4212.1	1224.6	1245.7	1425.1	1185.9	1154.2	1076.8	981.8	925.5	918.4
60°	9163.1	2262.6	767.1	791.7	1031.0	995.8	1034.5	964.2	848.0	795.3	784.7
62.5°	4208.5	907.9	418.7	401.1	541.9	675.6	886.7	879.7	735.4	651.0	643.9
65°	1020.5	415.2	299.1	281.5	306.1	404.7	577.1	693.2	594.7	496.2	485.6
67.5°	330.8	337.8	274.5	256.9	271.0	302.6	344.8	383.6	380.0	348.4	341.3
70°	263.9	306.1	253.4	232.2	232.2	242.8	232.2	186.5	161.9	175.9	183.0
72.5°	197.1	232.2	200.6	179.5	172.4	168.9	144.3	105.6	73.9	66.9	63.3
75°	116.1	130.2	123.2	105.6	98.5	88.0	70.4	45.7	24.6	17.6	10.6
77.5°	21.1	24.6	28.2	21.1	17.6	14.1	10.6	3.5	0.0	0.0	0.0
80°	0.0	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)