

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: P641293

Luminaire Tested: GWS-SA5F-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25360.7 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

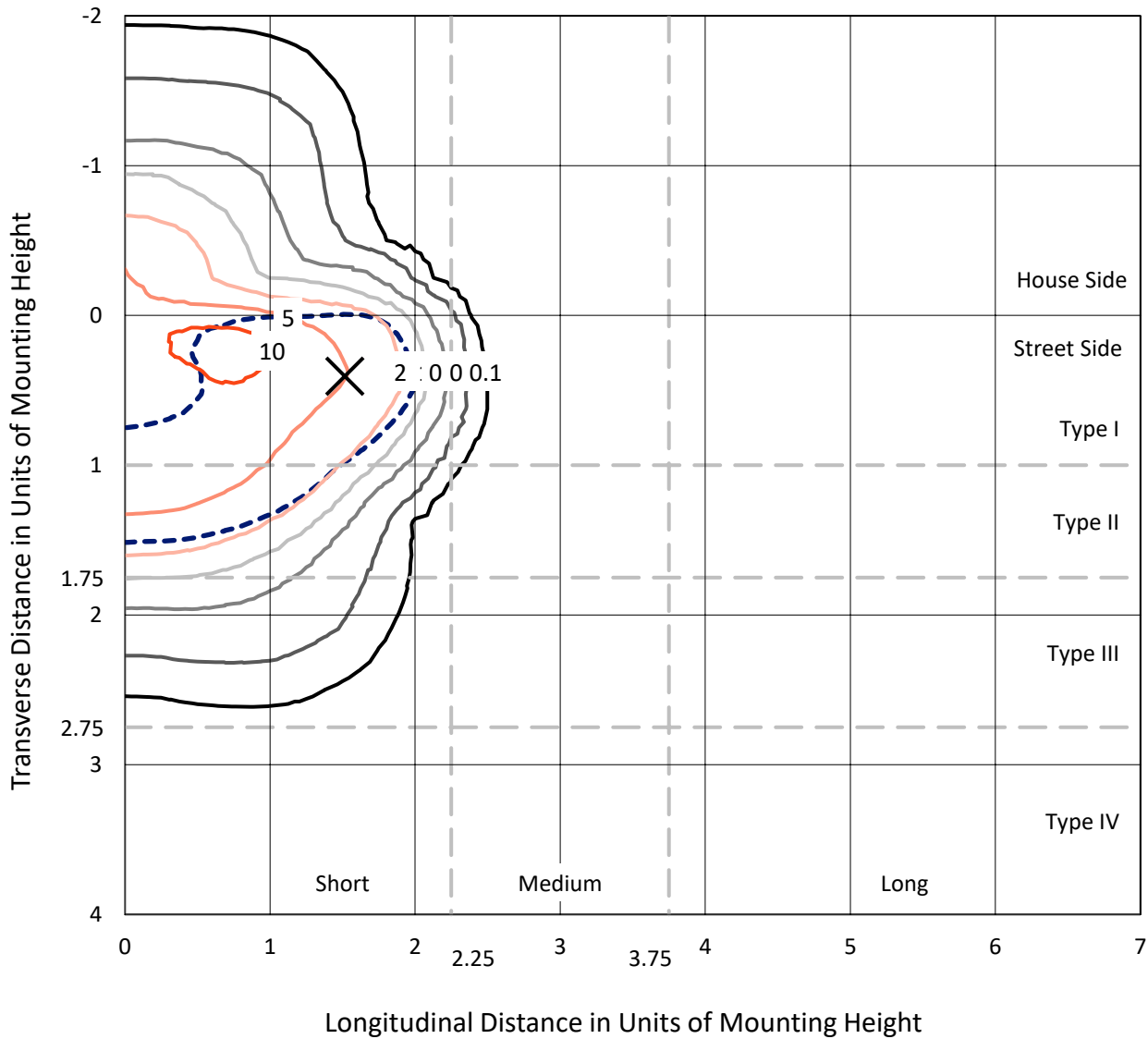
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

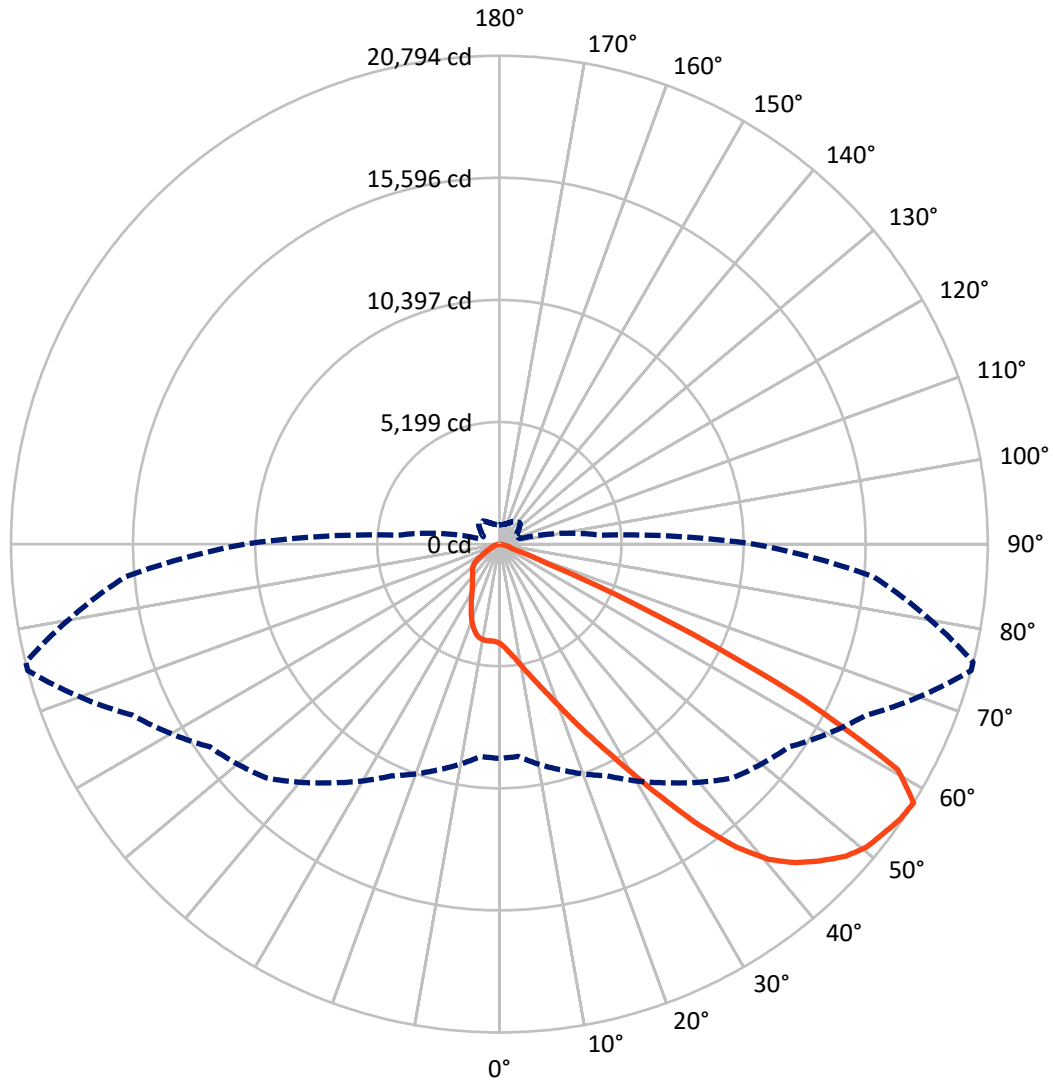
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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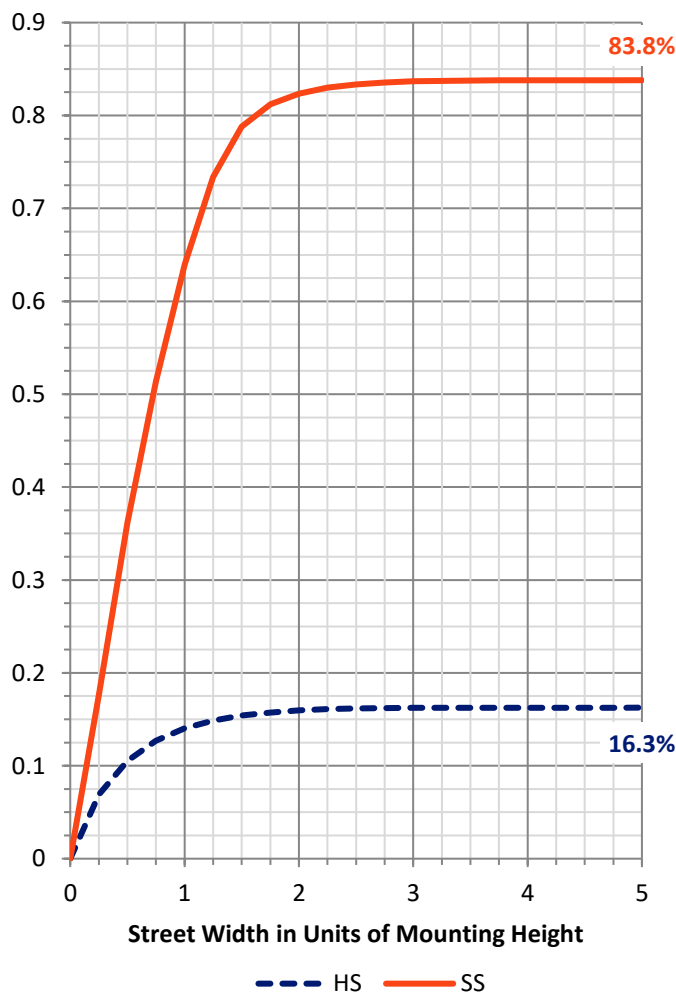
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4142.6	0.0	4142.6
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	21218.1	0.0	21218.1
	% Fixture	83.7	0.0	83.7
Total	Lumens	25360.7	0.0	25360.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	1.7
10°-20°	1398.2	5.5
20°-30°	2560.4	10.1
30°-40°	4247.9	16.8
40°-50°	6487.7	25.6
50°-60°	7290.0	28.7
60°-70°	2688.9	10.6
70°-80°	257.0	1.0
80°-90°	0.2	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°	25360.7	100.0
0°-180°	25360.7	100.0

Coefficient of Utilization



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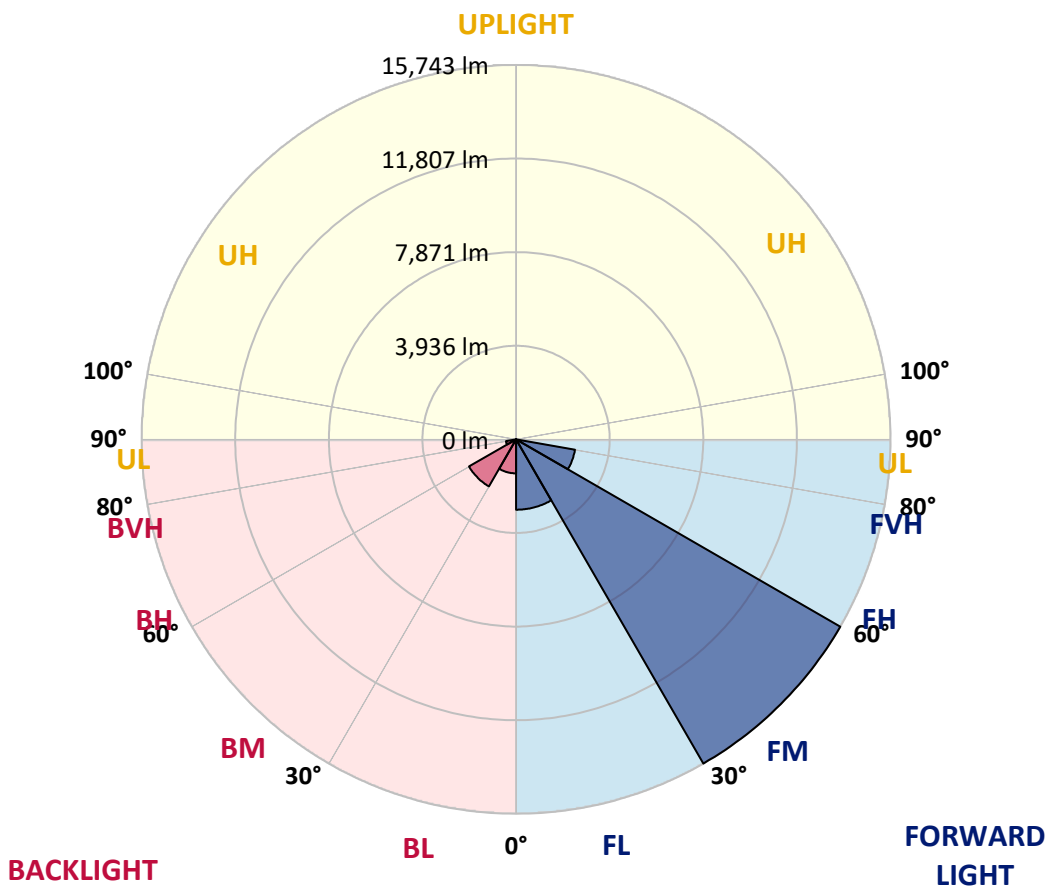
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2959.5	11.7			
FM (30°-60°)	15742.7	62.1			
FH (60°-80°)	2515.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1429.5	5.6	B3/2500		
BM (30°-60°)	2282.9	9.0	B2/2500		
BH (60°-80°)	430.2	1.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8
2.5°	4725.6	4774.6	4759.3	4728.7	4710.3	4646.1	4606.3	4490.0	4407.3	4398.1	4321.6
5°	5322.5	5313.3	5301.0	5264.3	5233.7	5132.7	5013.3	4817.5	4643.0	4621.6	4459.4
7.5°	5650.0	5656.1	5662.2	5656.1	5634.6	5558.1	5426.5	5197.0	4930.7	4912.3	4655.2
10°	5784.6	5796.9	5827.5	5885.6	5937.7	5931.5	5855.0	5619.3	5291.9	5261.2	4915.4
12.5°	5848.9	5864.2	5913.2	6023.3	6164.1	6274.3	6286.6	6075.4	5714.2	5665.3	5224.5
15°	5937.7	5953.0	6014.2	6158.0	6363.1	6580.4	6721.2	6586.5	6182.5	6130.5	5564.3
17.5°	5977.4	5998.9	6087.6	6277.4	6543.7	6877.3	7195.6	7183.3	6736.5	6696.7	5959.1
20°	6054.0	6069.3	6148.8	6353.9	6675.3	7155.8	7691.4	7884.2	7412.9	7354.7	6436.5
22.5°	6295.7	6301.9	6338.6	6467.1	6767.1	7357.8	8196.4	8701.4	8211.7	8135.2	6972.1
25°	6690.6	6687.5	6702.8	6724.2	6944.6	7562.9	8683.1	9622.7	9126.8	9044.2	7578.2
27.5°	7192.5	7192.5	7229.2	7168.0	7256.8	7816.9	9163.6	10681.7	10191.9	10075.6	8242.3
30°	7783.2	7780.2	7865.9	7767.9	7795.5	8217.8	9680.8	11835.5	11477.4	11333.6	9007.5
32.5°	8585.1	8566.7	8664.7	8530.0	8438.2	8823.8	10311.3	13041.4	13016.9	12796.6	9968.5
35°	9598.2	9567.6	9598.2	9466.6	9301.3	9671.6	11137.7	14244.2	14724.8	14492.2	11113.2
37.5°	10605.1	10703.1	10736.7	10510.3	10375.6	10745.9	12132.4	15321.6	16356.1	16114.3	12303.8
40°	11792.7	11762.1	11878.4	11624.3	11538.6	11948.8	13105.7	16123.5	17647.7	17418.1	13362.8
42.5°	12668.0	12723.1	12867.0	12726.2	12658.8	13044.5	13922.9	16591.8	18544.4	18318.0	14118.8
45°	13717.8	13757.6	13812.7	13696.4	13626.0	14005.5	14513.6	16796.8	19227.0	18982.1	14626.8
47.5°	14853.3	14883.9	14883.9	14645.2	14418.7	14574.8	14908.4	16913.1	19854.4	19618.7	15003.3
50°	15667.4	15682.7	15817.4	15649.1	15156.3	14914.5	15089.0	17026.4	20270.7	20050.3	15125.7
52.5°	14945.1	14926.8	15370.6	15719.5	15851.1	15370.6	15401.2	17191.6	20472.7	20282.9	15223.6
55°	12585.4	12554.8	13179.1	14026.9	15186.9	15802.1	15777.6	17289.6	20696.1	20579.8	15578.7
57.5°	9123.8	9071.8	9941.0	10883.7	12404.8	14072.8	15052.3	17234.5	20794.0	20784.8	15991.9
60°	5484.7	5441.8	6262.1	7253.7	8429.0	10106.3	11731.5	15437.9	19484.1	19502.4	14917.6
62.5°	3375.9	3415.7	4156.4	4661.4	5099.0	5604.0	6543.7	10384.8	14434.0	14553.4	10482.7
65°	2271.0	2301.6	2987.2	3623.8	3623.8	2962.7	2543.4	4964.4	7700.6	7498.6	4958.2
67.5°	1524.2	1557.9	2099.6	2843.3	2950.5	2065.9	1031.4	1481.4	2145.5	2081.2	1227.3
70°	896.8	933.5	1398.7	1949.6	2148.6	1438.5	688.6	627.4	609.1	590.7	477.5
72.5°	400.9	416.2	713.1	991.6	906.0	606.0	486.6	501.9	474.4	465.2	388.7
75°	122.4	128.5	183.6	214.2	217.3	217.3	293.8	394.8	373.4	376.5	299.9
77.5°	30.6	30.6	49.0	45.9	24.5	21.4	55.1	88.8	91.8	82.6	61.2
80°	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1
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°	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8	4229.8
2.5°	4288.0	4208.4	4156.4	4082.9	4030.9	3975.8	3926.8	3887.0	3865.6	3859.5	3862.5
5°	4385.9	4260.4	4138.0	3997.2	3899.3	3807.4	3734.0	3675.8	3648.3	3639.1	3639.1
7.5°	4535.9	4361.4	4144.1	3923.7	3758.5	3614.6	3528.9	3464.7	3440.2	3434.0	3415.7
10°	4731.8	4493.0	4134.9	3792.1	3559.5	3409.6	3348.3	3330.0	3339.2	3342.2	3339.2
12.5°	4967.4	4630.8	4076.8	3599.3	3348.3	3256.5	3262.6	3311.6	3366.7	3394.3	3400.4
15°	5218.4	4756.2	3945.2	3369.8	3167.8	3164.7	3253.5	3366.7	3473.8	3519.7	3532.0
17.5°	5500.0	4857.2	3743.2	3124.9	3011.7	3100.4	3259.6	3434.0	3577.9	3654.4	3669.7
20°	5809.1	4939.9	3486.1	2895.4	2873.9	3033.1	3253.5	3467.7	3645.2	3730.9	3746.2
22.5°	6130.5	4998.0	3189.2	2684.2	2748.5	2956.6	3195.3	3403.4	3571.8	3669.7	3682.0
25°	6497.7	5004.2	2886.2	2506.7	2632.2	2852.5	3054.5	3225.9	3366.7	3452.4	3461.6
27.5°	6819.1	4930.7	2616.9	2362.8	2525.0	2724.0	2858.6	2953.5	3051.5	3100.4	3103.5
30°	7189.5	4802.2	2362.8	2246.5	2414.8	2564.8	2632.2	2653.6	2662.8	2671.9	2659.7
32.5°	7630.2	4646.1	2173.1	2133.3	2289.4	2390.4	2408.7	2365.9	2313.8	2240.4	2222.0
35°	8171.9	4505.3	2017.0	2023.1	2151.6	2212.8	2197.5	2105.7	2004.7	1916.0	1900.7
37.5°	8759.6	4385.9	1897.6	1916.0	2001.7	2044.5	1998.6	1897.6	1851.7	1775.2	1778.2
40°	9279.9	4288.0	1790.5	1808.8	1848.6	1888.4	1815.0	1747.6	1833.3	1827.2	1833.3
42.5°	9650.2	4205.3	1698.7	1689.5	1717.0	1744.6	1689.5	1655.8	1799.7	1759.9	1781.3
45°	9867.5	4128.8	1622.1	1567.1	1609.9	1658.9	1622.1	1579.3	1628.3	1444.6	1429.3
47.5°	10014.4	4086.0	1554.8	1447.7	1524.2	1609.9	1533.4	1429.3	1358.9	1199.8	1187.5
50°	10029.7	4064.5	1475.2	1325.3	1423.2	1515.0	1426.3	1282.4	1181.4	1111.0	1101.8
52.5°	10109.3	4107.4	1365.0	1169.2	1276.3	1423.2	1362.0	1218.1	1080.4	1019.2	1007.0
55°	10464.3	4288.0	1181.4	954.9	1111.0	1352.8	1310.0	1086.5	954.9	918.2	909.0
57.5°	10831.6	4324.7	930.4	756.0	967.2	1251.8	1196.7	1000.8	872.3	829.4	820.3
60°	9904.2	3562.6	697.8	624.4	853.9	1156.9	1108.0	948.8	798.8	746.8	737.6
62.5°	6506.9	1925.1	554.0	529.5	719.3	979.4	1010.0	857.0	713.1	658.0	655.0
65°	2999.4	893.7	425.4	419.3	563.2	780.5	869.2	749.9	602.9	554.0	554.0
67.5°	817.2	443.8	333.6	309.1	382.6	523.4	633.6	560.1	428.5	370.3	367.3
70°	407.1	358.1	299.9	266.3	275.5	324.4	373.4	312.2	217.3	177.5	174.5
72.5°	333.6	293.8	254.0	226.5	208.1	198.9	192.8	156.1	101.0	76.5	73.5
75°	247.9	211.2	180.6	146.9	125.5	116.3	104.1	76.5	42.8	24.5	21.4
77.5°	55.1	52.0	49.0	36.7	33.7	27.5	21.4	15.3	6.1	0.0	0.0
80°	3.1	3.1	3.1	3.1	3.1	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)