

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: P643173

Luminaire Tested: GWS-SA6E-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32413.4 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

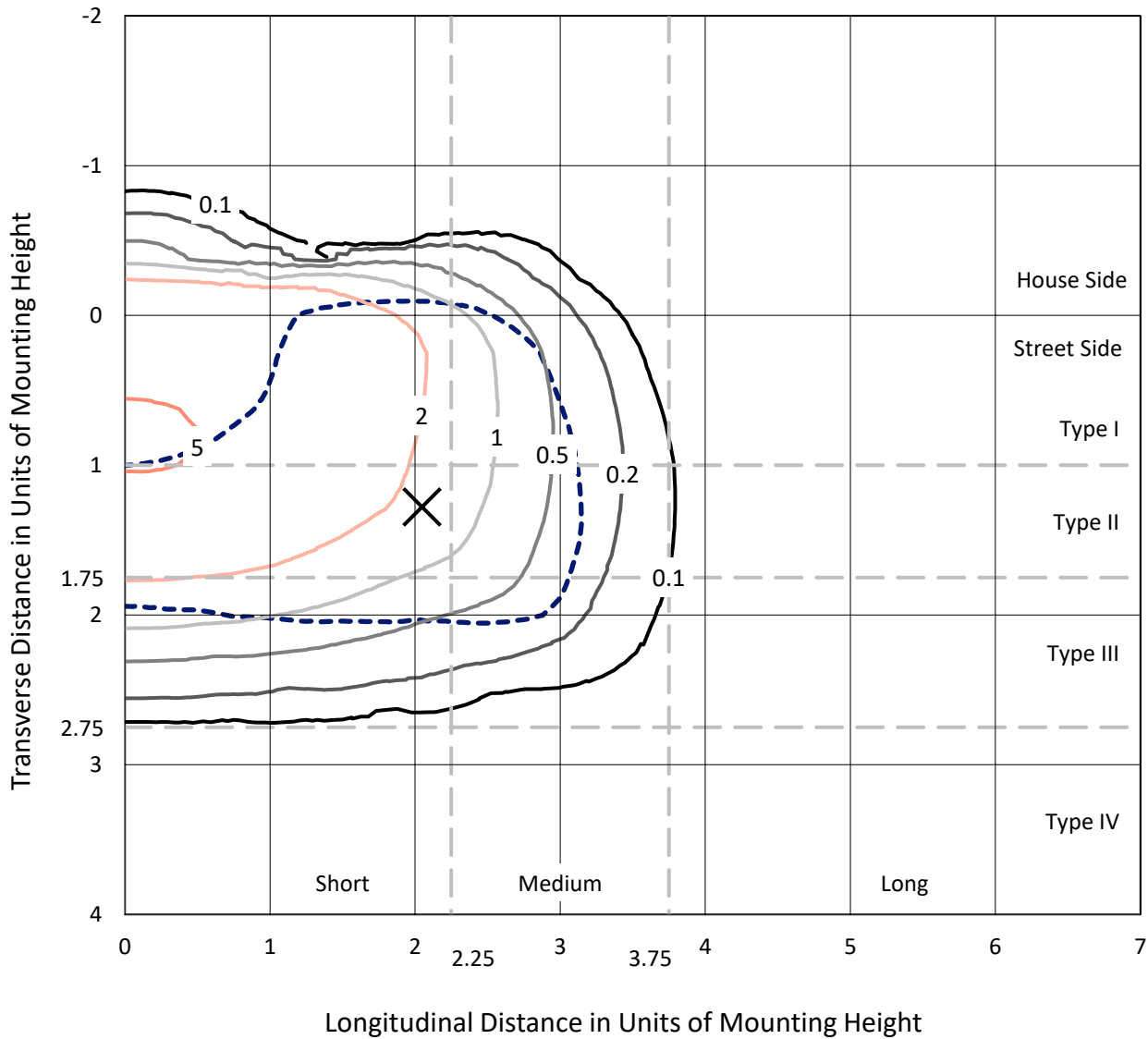
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643173
 CATALOG NUMBER: GWS-SA6E-735-U-T3-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

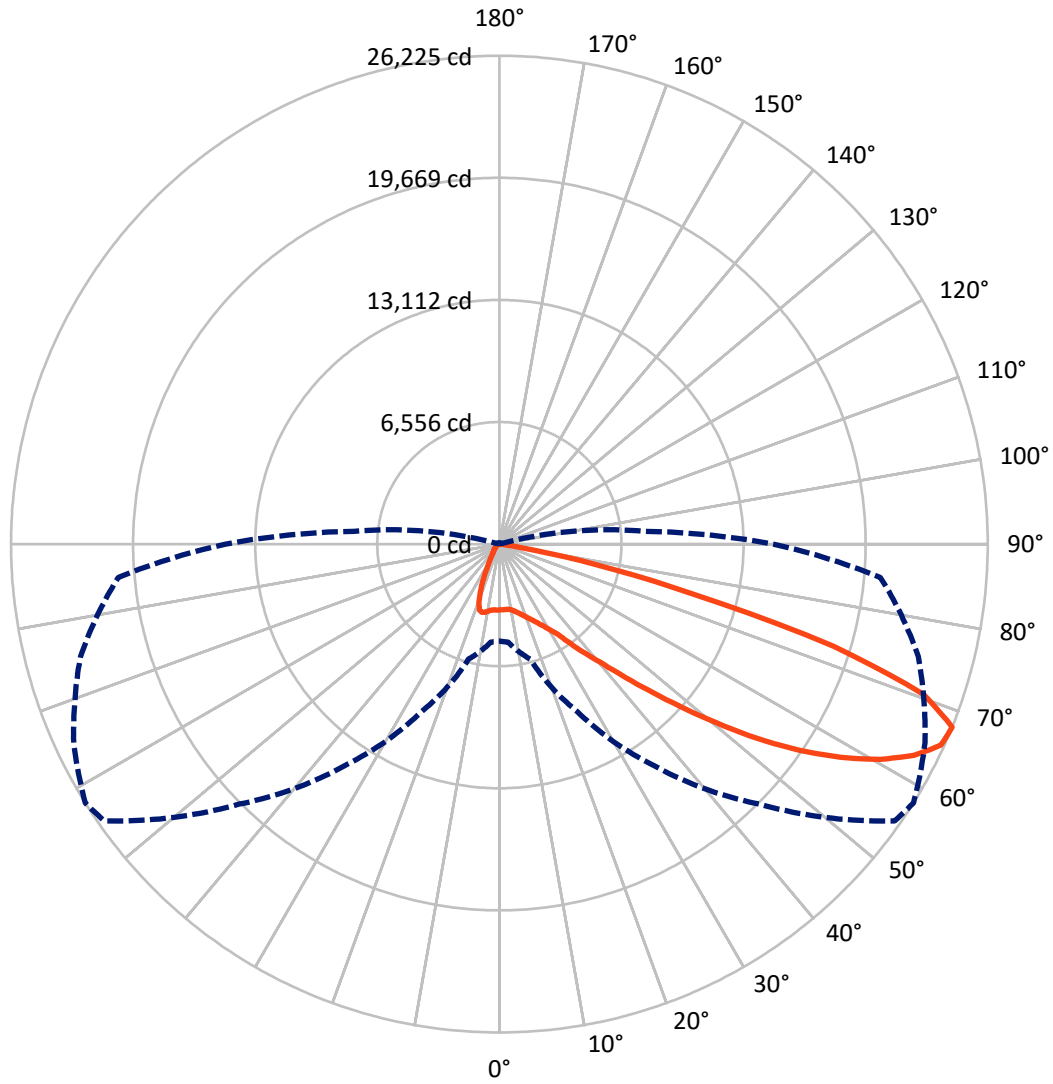
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

REPORT NUMBER: P643173
CATALOG NUMBER: GWS-SA6E-735-U-T3-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P643173
 CATALOG NUMBER: GWS-SA6E-735-U-T3-W-HSS

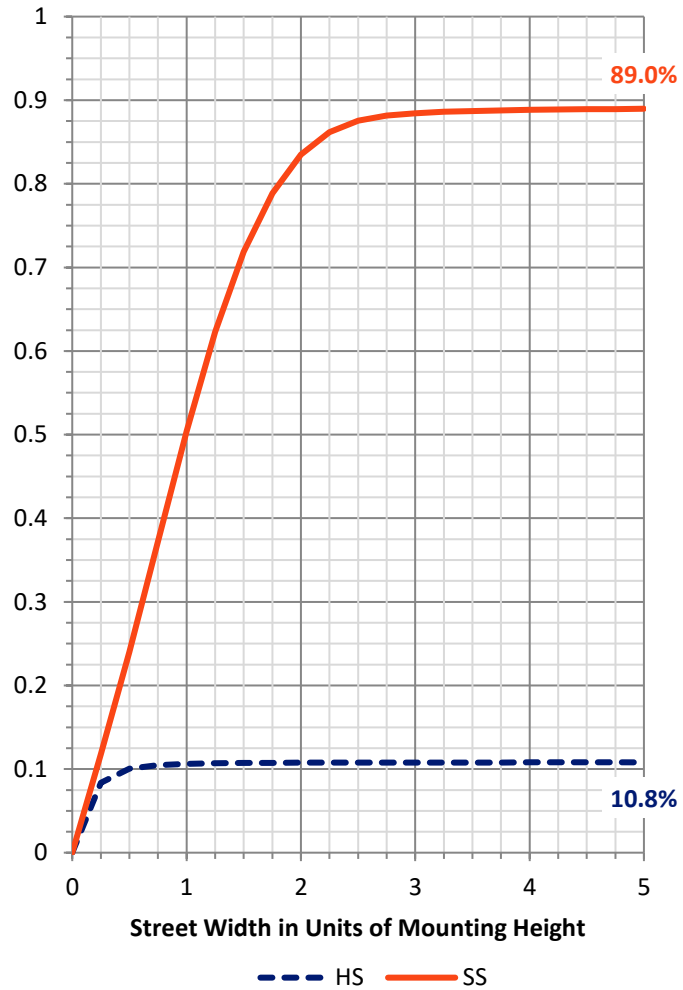
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3536.2	0.0	3536.2
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	28877.2	0.0	28877.2
	% Fixture	89.1	0.0	89.1
Total	Lumens	32413.4	0.0	32413.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.8	1.0
10°-20°	931.6	2.9
20°-30°	1626.1	5.0
30°-40°	2904.0	9.0
40°-50°	5308.0	16.4
50°-60°	8827.8	27.2
60°-70°	9588.5	29.6
70°-80°	2815.3	8.7
80°-90°	80.2	0.2
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°	32413.4	100.0
0°-180°	32413.4	100.0

Coefficient of Utilization



REPORT NUMBER: P643173

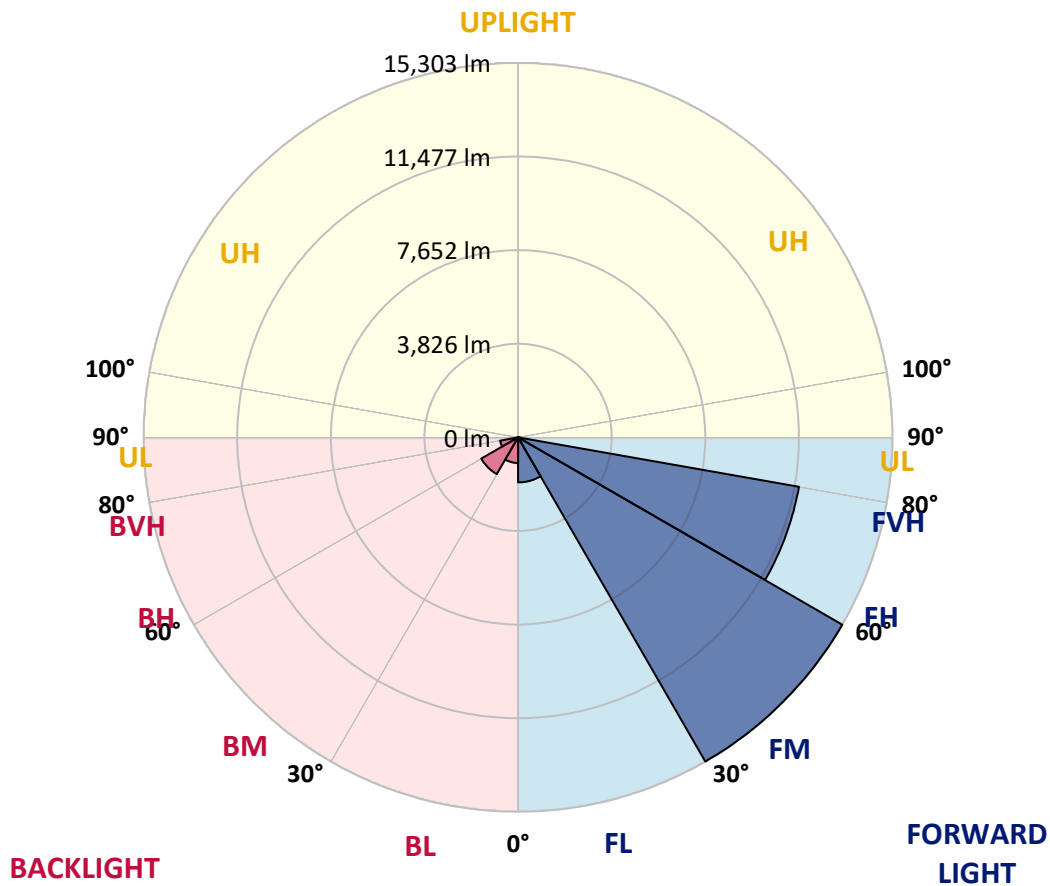
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1840.6	5.7			
FM (30°-60°)	15303.0	47.2			
FH (60°-80°)	11657.3	36.0			G4/12000
FVH (80°-90°)	76.2	0.2			G1/100
BL (0°-30°)	1048.9	3.2	B3/2500		
BM (30°-60°)	1736.9	5.4	B2/2500		
BH (60°-80°)	746.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.9	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-G4

Type III Short





REPORT NUMBER: P643173

CATALOG NUMBER: GWS-SA6E-735-U-T3-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1
2.5°	3465.6	3459.3	3459.3	3484.6	3487.8	3500.4	3528.9	3532.1	3547.9	3541.6	3519.4
5°	3285.2	3288.4	3307.4	3351.7	3389.7	3437.1	3506.8	3522.6	3557.4	3576.4	3563.7
7.5°	3117.5	3120.6	3149.1	3218.8	3291.6	3386.5	3500.4	3532.1	3601.7	3652.4	3655.5
10°	3054.2	3051.0	3079.5	3158.6	3253.6	3386.5	3551.1	3592.2	3696.7	3785.3	3801.1
12.5°	3073.2	3070.0	3098.5	3171.3	3275.7	3443.5	3639.7	3696.7	3829.6	3965.7	3994.2
15°	3149.1	3146.0	3165.0	3225.1	3339.0	3513.1	3753.6	3839.1	4006.8	4171.4	4215.7
17.5°	3377.0	3361.2	3342.2	3348.5	3415.0	3595.4	3899.2	4003.7	4212.6	4408.8	4446.8
20°	3782.1	3741.0	3690.3	3623.9	3592.2	3715.7	4067.0	4187.2	4440.4	4665.1	4671.5
22.5°	4393.0	4377.1	4260.0	4067.0	3930.9	3934.0	4263.2	4402.5	4712.6	4959.5	4924.7
25°	5244.3	5234.8	5054.4	4737.9	4383.5	4263.2	4513.2	4655.7	5035.4	5298.1	5187.4
27.5°	6301.4	6235.0	6022.9	5595.6	5067.1	4690.5	4829.7	4956.3	5377.3	5624.1	5415.2
30°	7222.4	7225.6	7026.2	6579.9	5984.9	5333.0	5215.8	5326.6	5690.6	5950.1	5696.9
32.5°	8108.6	8137.1	7918.7	7516.8	6864.8	6171.7	5769.7	5788.7	6092.5	6374.2	6067.2
35°	8931.5	8953.7	8801.7	8459.9	7852.3	7048.4	6542.0	6532.5	6697.0	6985.1	6583.1
37.5°	9852.5	9874.7	9725.9	9418.9	8849.2	8051.7	7418.7	7406.0	7472.5	7706.7	7247.8
40°	10833.6	10874.8	10710.2	10450.7	9906.3	9232.2	8437.8	8323.8	8257.4	8532.7	8108.6
42.5°	11827.4	11890.7	11833.8	11574.2	11109.0	10552.0	9760.7	9583.5	9441.1	9786.0	9336.6
45°	13061.8	13137.7	13112.4	12913.0	12552.2	12099.6	11352.7	11147.0	11080.5	11400.2	10865.3
47.5°	14248.6	14330.9	14422.7	14378.4	14122.0	13913.2	13083.9	12966.8	12947.8	13289.7	12460.4
50°	15131.7	15207.6	15558.9	15812.1	15986.2	15941.9	15223.4	15049.4	15020.9	15239.3	14144.2
52.5°	15764.7	15837.4	16321.7	17112.9	17752.2	18100.4	17375.6	17337.6	17182.6	17106.6	15720.3
55°	16255.2	16356.5	16866.1	18062.4	19350.5	20122.8	19670.2	19534.1	19135.3	18698.6	17182.6
57.5°	16353.3	16394.5	17112.9	18727.1	20591.2	21841.4	21841.4	21604.0	20834.9	20230.4	18872.6
60°	15473.5	15600.1	16571.7	18673.2	21122.9	22964.9	23642.2	23477.7	22439.5	21695.8	20499.4
62.5°	13520.7	13663.1	14846.8	17385.1	20591.2	23196.0	25006.3	24981.0	23810.0	22908.0	21847.7
65°	10368.4	10472.8	11504.6	14543.0	18344.1	22306.6	25981.1	26050.8	24892.4	23708.7	22312.9
67.5°	5209.5	5282.3	6396.4	9934.8	14539.8	19746.2	25914.7	26224.8	25221.5	23284.6	20537.4
70°	1819.9	1892.6	2418.0	4263.2	8849.2	15077.9	23673.9	24180.3	23287.8	19875.9	15150.6
72.5°	623.5	658.3	1003.3	1582.5	3443.5	8937.8	18002.3	18765.0	17166.7	13343.5	8706.8
75°	354.5	376.6	538.0	857.7	1443.2	2940.2	10213.3	10681.7	10007.6	7273.1	3582.7
77.5°	240.5	259.5	335.5	487.4	797.6	946.3	4165.1	5244.3	4573.4	2373.7	914.7
80°	142.4	155.1	205.7	288.0	408.3	367.1	892.5	1186.9	1528.7	709.0	275.4
82.5°	66.5	76.0	132.9	189.9	205.7	155.1	262.7	319.7	430.4	348.1	113.9
85°	0.0	0.0	44.3	79.1	76.0	44.3	72.8	79.1	117.1	174.1	44.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.2	6.3	9.5	19.0	34.8	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643173
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1	3532.1
2.5°	3544.8	3522.6	3547.9	3535.3	3547.9	3544.8	3519.4	3503.6	3503.6	3475.1	3465.6
5°	3589.1	3566.9	3573.2	3544.8	3538.4	3522.6	3490.9	3478.3	3478.3	3449.8	3440.3
7.5°	3687.2	3652.4	3646.0	3589.1	3563.7	3519.4	3462.5	3440.3	3437.1	3408.7	3399.2
10°	3842.3	3801.1	3772.6	3699.8	3627.0	3538.4	3418.2	3316.9	3259.9	3183.9	3177.6
12.5°	4032.2	3981.5	3937.2	3826.4	3706.2	3506.8	3152.3	2782.0	2554.1	2373.7	2386.4
15°	4244.2	4196.7	4127.1	3959.4	3712.5	3193.4	2452.8	1883.1	1604.6	1455.9	1449.6
17.5°	4475.2	4405.6	4291.7	4063.8	3513.1	2440.2	1595.1	1126.7	981.1	930.5	917.8
20°	4690.5	4605.0	4462.6	4086.0	2937.1	1652.1	997.0	873.5	848.2	832.4	832.4
22.5°	4918.3	4810.7	4598.7	3915.1	2183.8	1057.1	848.2	819.7	800.7	778.6	775.4
25°	5149.4	5010.1	4722.1	3468.8	1430.6	832.4	794.4	762.8	727.9	693.1	683.6
27.5°	5345.6	5165.2	4817.1	2804.2	917.8	750.1	724.8	671.0	623.5	585.5	579.2
30°	5579.8	5348.8	4858.2	2050.9	721.6	661.5	623.5	566.5	509.6	471.6	458.9
32.5°	5893.2	5640.0	4794.9	1335.6	639.3	582.4	522.2	455.8	398.8	357.6	351.3
35°	6380.6	6079.9	4503.7	851.4	579.2	503.2	430.4	360.8	313.3	281.7	275.4
37.5°	6975.6	6697.0	4025.8	639.3	519.1	436.8	351.3	284.8	250.0	227.9	221.5
40°	7858.6	7469.3	3434.0	560.2	458.9	370.3	288.0	234.2	208.9	189.9	183.6
42.5°	9004.3	8380.8	2753.5	509.6	401.9	310.2	234.2	193.1	170.9	158.2	155.1
45°	10343.1	9270.2	2035.1	458.9	348.1	256.4	193.1	158.2	142.4	132.9	129.8
47.5°	11713.5	10048.7	1405.2	405.1	297.5	212.1	161.4	136.1	123.4	110.8	107.6
50°	13175.7	10707.1	959.0	351.3	253.2	174.1	139.3	123.4	107.6	98.1	94.9
52.5°	14248.6	10950.8	667.8	303.8	215.2	148.8	123.4	110.8	98.1	85.5	82.3
55°	15239.3	10944.4	506.4	256.4	183.6	129.8	110.8	98.1	85.5	76.0	72.8
57.5°	16226.7	10859.0	398.8	218.4	158.2	117.1	98.1	85.5	79.1	66.5	63.3
60°	16866.1	10536.1	310.2	183.6	136.1	101.3	85.5	76.0	66.5	57.0	53.8
62.5°	17204.7	10086.7	237.4	145.6	110.8	88.6	76.0	66.5	57.0	47.5	44.3
65°	16745.8	9289.1	186.7	113.9	85.5	76.0	63.3	53.8	44.3	34.8	31.6
67.5°	14710.7	7833.3	145.6	91.8	66.5	57.0	53.8	44.3	31.6	25.3	22.2
70°	10396.9	5364.6	113.9	69.6	50.6	44.3	41.1	34.8	25.3	19.0	15.8
72.5°	5706.4	2706.0	82.3	50.6	38.0	34.8	31.6	28.5	22.2	15.8	15.8
75°	2196.5	743.8	60.1	34.8	25.3	25.3	22.2	22.2	19.0	12.7	12.7
77.5°	572.9	221.5	38.0	22.2	15.8	15.8	15.8	12.7	12.7	9.5	9.5
80°	183.6	72.8	22.2	15.8	12.7	9.5	9.5	6.3	9.5	6.3	6.3
82.5°	60.1	25.3	12.7	12.7	9.5	6.3	6.3	3.2	3.2	0.0	0.0
85°	22.2	12.7	9.5	6.3	6.3	6.3	3.2	0.0	0.0	0.0	0.0
87.5°	12.7	6.3	6.3	6.3	6.3	3.2	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)