

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: P638029

Luminaire Tested: GWS-SA4E-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13236.3 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

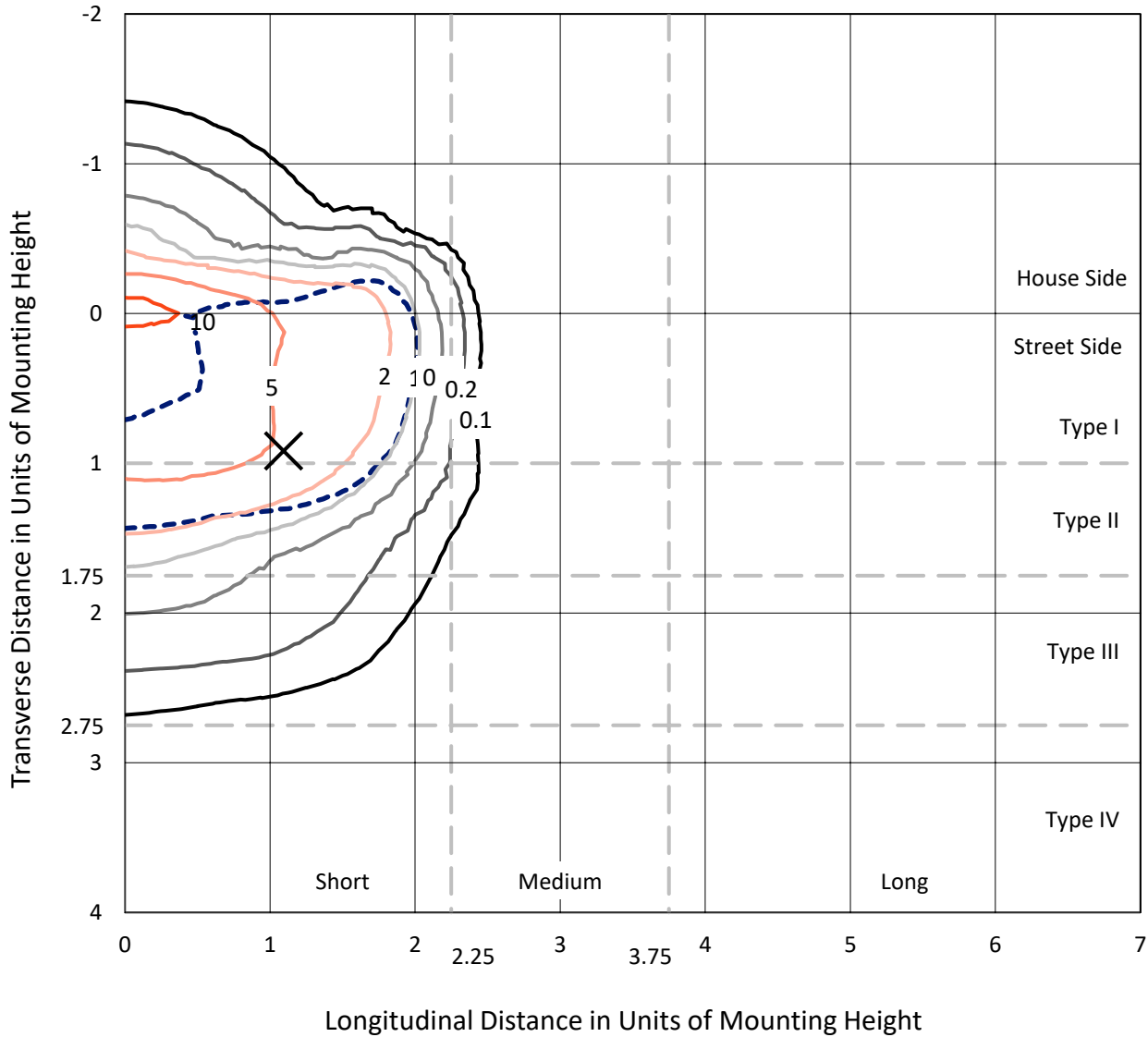
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638029
 CATALOG NUMBER: GWS-SA4E-722-U-SL2-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

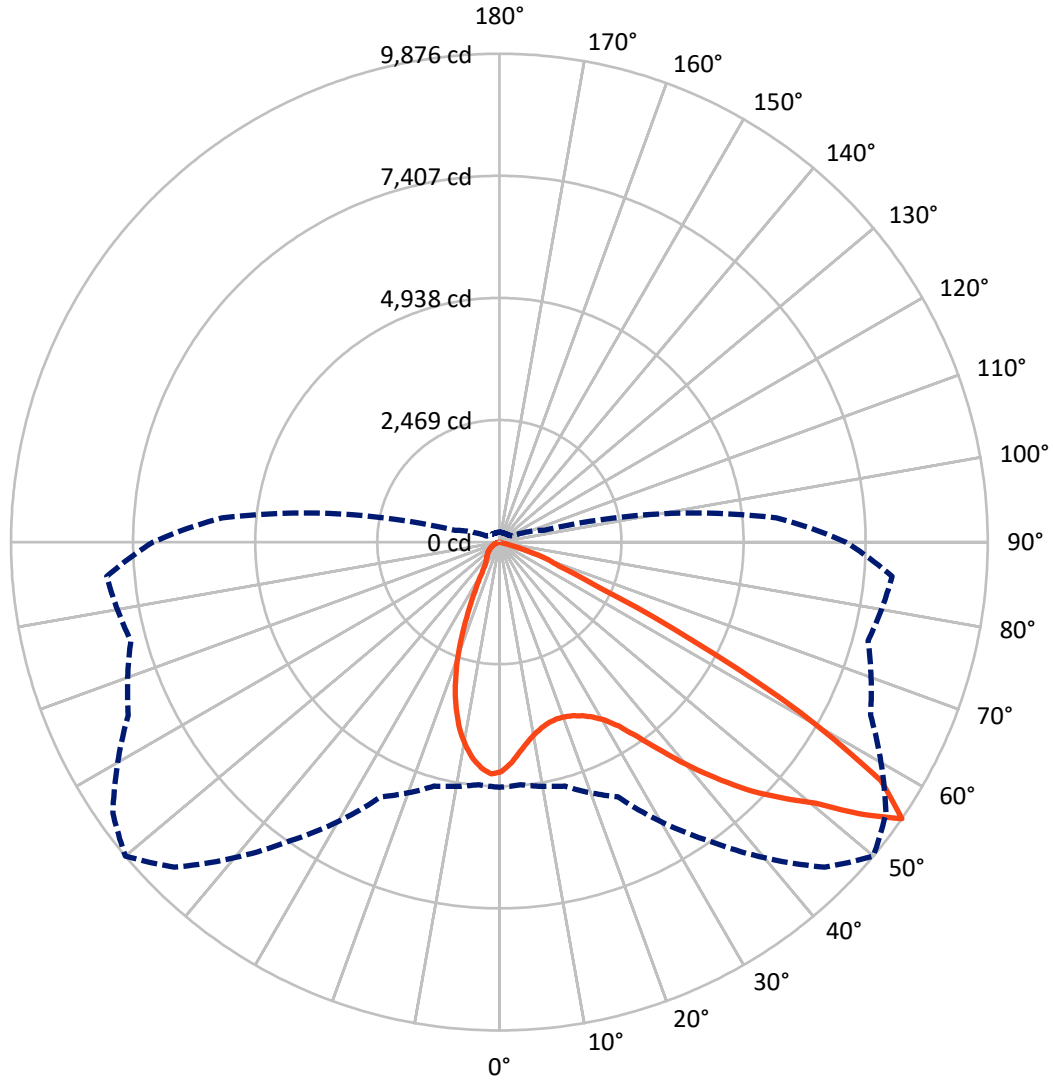
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

REPORT NUMBER: P638029
CATALOG NUMBER: GWS-SA4E-722-U-SL2-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P638029

CATALOG NUMBER: GWS-SA4E-722-U-SL2-W-GRSBK

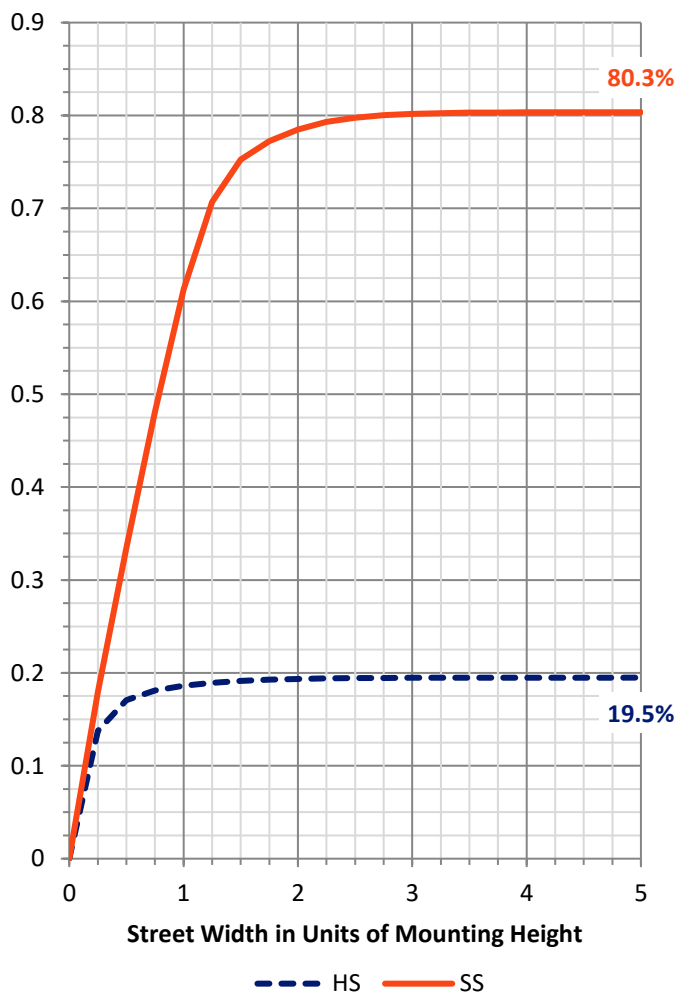
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.2	0.0	2608.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	10628.1	0.0	10628.1
	% Fixture	80.3	0.0	80.3
Total	Lumens	13236.3	0.0	13236.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.8	3.1
10°-20°	1003.6	7.6
20°-30°	1415.7	10.7
30°-40°	2094.9	15.8
40°-50°	3022.2	22.8
50°-60°	3565.0	26.9
60°-70°	1590.3	12.0
70°-80°	136.7	1.0
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°	13236.3	100.0
0°-180°	13236.3	100.0

Coefficient of Utilization



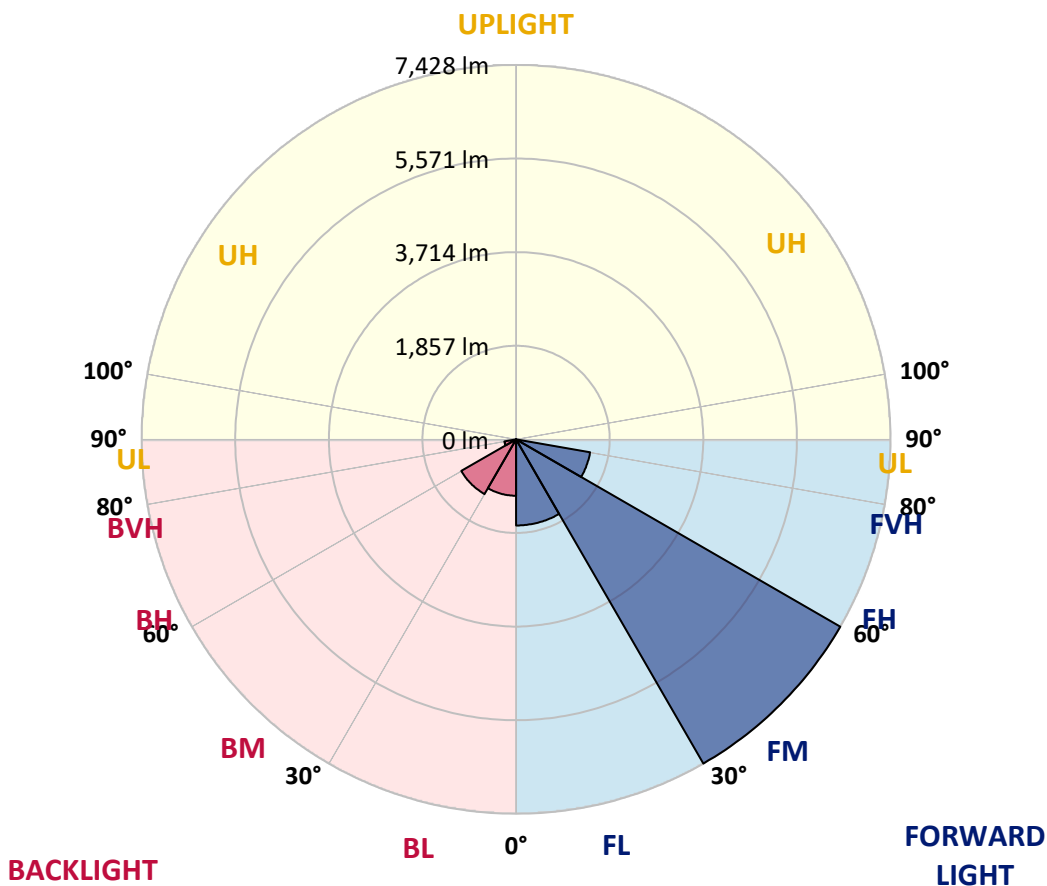
REPORT NUMBER: P638029

CATALOG NUMBER: GWS-SA4E-722-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1708.9	12.9			
FM (30°-60°)	7427.8	56.1			
FH (60°-80°)	1491.5	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1118.3	8.4	B3/2500		
BM (30°-60°)	1254.3	9.5	B2/2500		
BH (60°-80°)	235.5	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	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





REPORT NUMBER: P638029

CATALOG NUMBER: GWS-SA4E-722-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0
2.5°	4314.4	4317.6	4319.2	4362.9	4379.0	4443.7	4477.6	4495.4	4542.2	4597.2	4642.4
5°	4025.1	4020.3	4028.4	4083.3	4118.9	4214.2	4265.9	4301.5	4404.9	4534.2	4642.4
7.5°	3773.1	3782.8	3792.5	3852.3	3905.6	4009.0	4083.3	4136.6	4280.5	4472.7	4655.3
10°	3595.3	3595.3	3609.9	3677.7	3740.8	3868.4	3942.7	4010.6	4181.9	4417.8	4669.9
12.5°	3464.4	3466.1	3483.8	3561.4	3634.1	3766.6	3844.2	3910.4	4099.5	4362.9	4673.1
15°	3403.0	3398.2	3412.7	3495.1	3575.9	3700.4	3781.2	3845.8	4041.3	4332.2	4689.3
17.5°	3386.9	3383.6	3395.0	3475.8	3558.2	3679.4	3758.5	3823.2	4033.2	4341.9	4737.8
20°	3433.7	3427.3	3422.4	3491.9	3569.5	3689.0	3771.5	3844.2	4072.0	4395.2	4812.1
22.5°	3545.2	3545.2	3533.9	3567.9	3619.6	3727.8	3813.5	3908.8	4173.8	4501.8	4922.0
25°	3750.5	3734.3	3713.3	3727.8	3721.4	3789.2	3891.0	4023.5	4366.1	4678.0	5056.1
27.5°	3984.8	3999.3	3963.7	3965.4	3908.8	3884.6	4002.5	4202.9	4652.1	4926.8	5254.8
30°	4303.1	4291.8	4293.4	4288.5	4157.7	4042.9	4170.6	4437.2	5012.4	5306.5	5513.4
32.5°	4551.9	4568.1	4621.4	4652.1	4480.8	4296.6	4432.4	4755.5	5422.9	5739.6	5830.1
35°	4815.3	4844.4	4952.7	5052.8	4909.0	4697.4	4842.8	5177.3	5809.1	6167.8	6193.7
37.5°	5093.2	5151.4	5280.7	5456.8	5434.2	5246.8	5379.3	5673.3	6112.9	6426.3	6494.2
40°	5411.6	5468.1	5679.8	5933.5	5986.8	5944.8	5988.4	6159.7	6313.2	6437.7	6623.5
42.5°	5760.6	5838.2	6106.4	6445.7	6646.1	6683.3	6581.5	6563.7	6400.5	6308.4	6596.0
45°	6172.6	6263.1	6566.9	7006.4	7324.8	7374.9	7198.7	6970.9	6455.4	6213.0	6513.6
47.5°	6634.8	6720.4	7022.6	7551.0	8024.4	8043.8	7736.8	7370.0	6618.6	6322.9	6576.6
50°	6789.9	6843.2	7105.0	7725.5	8598.1	8746.7	8302.4	7819.2	6946.7	6646.1	6883.6
52.5°	6256.7	6277.7	6505.5	7132.5	8481.7	9436.7	9128.1	8489.8	7530.0	7138.9	7357.1
55°	4957.5	4923.6	5107.8	5683.0	7371.6	9296.1	9876.2	9543.4	8281.4	7717.4	7972.7
57.5°	3467.7	3427.3	3385.3	3774.7	5500.4	7880.6	9100.6	9690.4	8997.2	8291.1	8636.9
60°	2850.4	2811.6	2608.0	2428.7	3325.5	5658.8	6990.3	8100.4	8939.0	8262.0	8615.9
62.5°	2462.6	2440.0	2357.6	2113.6	1956.8	3230.1	4377.4	5440.7	6859.4	6487.7	6507.1
65°	1934.2	1927.7	1984.3	2010.2	1730.6	1787.2	2233.1	2827.8	3708.4	3496.8	3315.8
67.5°	1321.8	1307.2	1413.9	1738.7	1664.4	1410.7	1307.2	1318.6	1604.6	980.8	778.9
70°	840.3	806.3	807.9	1077.8	1354.1	1113.3	1008.3	887.1	798.2	145.4	164.8
72.5°	538.1	517.1	444.4	486.4	627.0	542.9	547.8	471.8	315.1	77.6	90.5
75°	226.2	208.4	160.0	127.7	126.0	79.2	69.5	64.6	43.6	43.6	46.9
77.5°	1.6	0.0	0.0	1.6	3.2	1.6	1.6	3.2	6.5	9.7	11.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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



REPORT NUMBER: P638029

CATALOG NUMBER: GWS-SA4E-722-U-SL2-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0	4644.0
2.5°	4669.9	4631.1	4674.7	4690.9	4689.3	4690.9	4644.0	4611.7	4610.1	4569.7	4550.3
5°	4687.7	4657.0	4689.3	4668.3	4618.2	4555.2	4471.1	4398.4	4366.1	4319.2	4296.6
7.5°	4721.6	4689.3	4684.4	4600.4	4476.0	4343.5	4194.8	4062.3	3991.2	3905.6	3910.4
10°	4745.8	4708.7	4645.6	4474.4	4267.5	4055.9	3834.5	3637.3	3512.9	3398.2	3378.8
12.5°	4755.5	4700.6	4553.5	4295.0	4004.1	3727.8	3403.0	3121.9	2928.0	2777.7	2756.7
15°	4773.3	4684.4	4435.6	4078.5	3679.4	3288.3	2874.6	2490.1	2233.1	2060.2	2074.8
17.5°	4800.8	4666.7	4303.1	3836.1	3330.3	2777.7	2218.6	1777.5	1541.5	1441.4	1443.0
20°	4839.6	4645.6	4157.7	3569.5	2911.8	2200.8	1551.2	1218.4	1152.1	1148.9	1144.0
22.5°	4891.3	4624.6	4002.5	3277.0	2415.7	1541.5	1032.5	929.1	956.6	1009.9	1019.6
25°	4952.7	4598.8	3829.6	2947.4	1874.4	1011.5	774.0	757.8	824.1	895.2	911.4
27.5°	5048.0	4585.9	3632.5	2572.5	1315.3	725.5	633.4	643.1	702.9	762.7	777.2
30°	5209.6	4610.1	3417.6	2152.3	845.1	578.5	549.4	563.9	596.3	627.0	639.9
32.5°	5429.3	4681.2	3209.1	1693.4	602.7	502.5	496.1	504.2	517.1	534.9	539.7
35°	5686.3	4804.0	2994.2	1211.9	497.7	458.9	452.4	452.4	458.9	462.1	463.8
37.5°	5898.0	4933.3	2792.2	806.3	446.0	425.0	415.3	410.4	408.8	412.0	413.7
40°	5990.1	4986.6	2572.5	586.6	408.8	394.3	379.7	365.2	365.2	376.5	378.1
42.5°	5925.4	4926.8	2318.8	484.8	383.0	362.0	339.3	326.4	332.9	344.2	347.4
45°	5788.1	4779.8	2039.2	428.2	357.1	329.6	303.8	295.7	302.2	316.7	319.9
47.5°	5765.4	4682.8	1704.8	391.0	329.6	302.2	274.7	266.6	274.7	286.0	289.2
50°	5990.1	4766.8	1333.1	358.7	303.8	273.1	250.5	242.4	247.2	253.7	256.9
52.5°	6400.5	5078.7	1076.2	328.0	273.1	244.0	229.5	219.8	219.8	226.2	227.8
55°	7006.4	5623.3	929.1	292.5	237.5	221.4	208.4	198.8	198.8	202.0	203.6
57.5°	7704.5	6282.5	963.1	245.6	208.4	200.4	189.1	181.0	184.2	184.2	184.2
60°	7607.5	6234.1	1030.9	206.8	184.2	181.0	171.3	168.1	176.1	169.7	166.4
62.5°	5603.9	4306.3	539.7	169.7	158.4	155.1	148.7	155.1	166.4	148.7	142.2
65°	2721.1	2084.5	216.5	139.0	134.1	130.9	127.7	137.3	143.8	116.3	109.9
67.5°	639.9	520.3	140.6	118.0	111.5	105.0	108.3	109.9	105.0	79.2	75.9
70°	166.4	163.2	109.9	98.6	88.9	82.4	82.4	80.8	69.5	50.1	46.9
72.5°	90.5	88.9	79.2	74.3	61.4	54.9	56.6	50.1	38.8	29.1	27.5
75°	45.2	48.5	45.2	42.0	33.9	30.7	30.7	27.5	19.4	11.3	11.3
77.5°	9.7	11.3	11.3	9.7	8.1	6.5	6.5	8.1	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	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)