

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: P639452

Luminaire Tested: GWS-SA5B-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10623.1 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

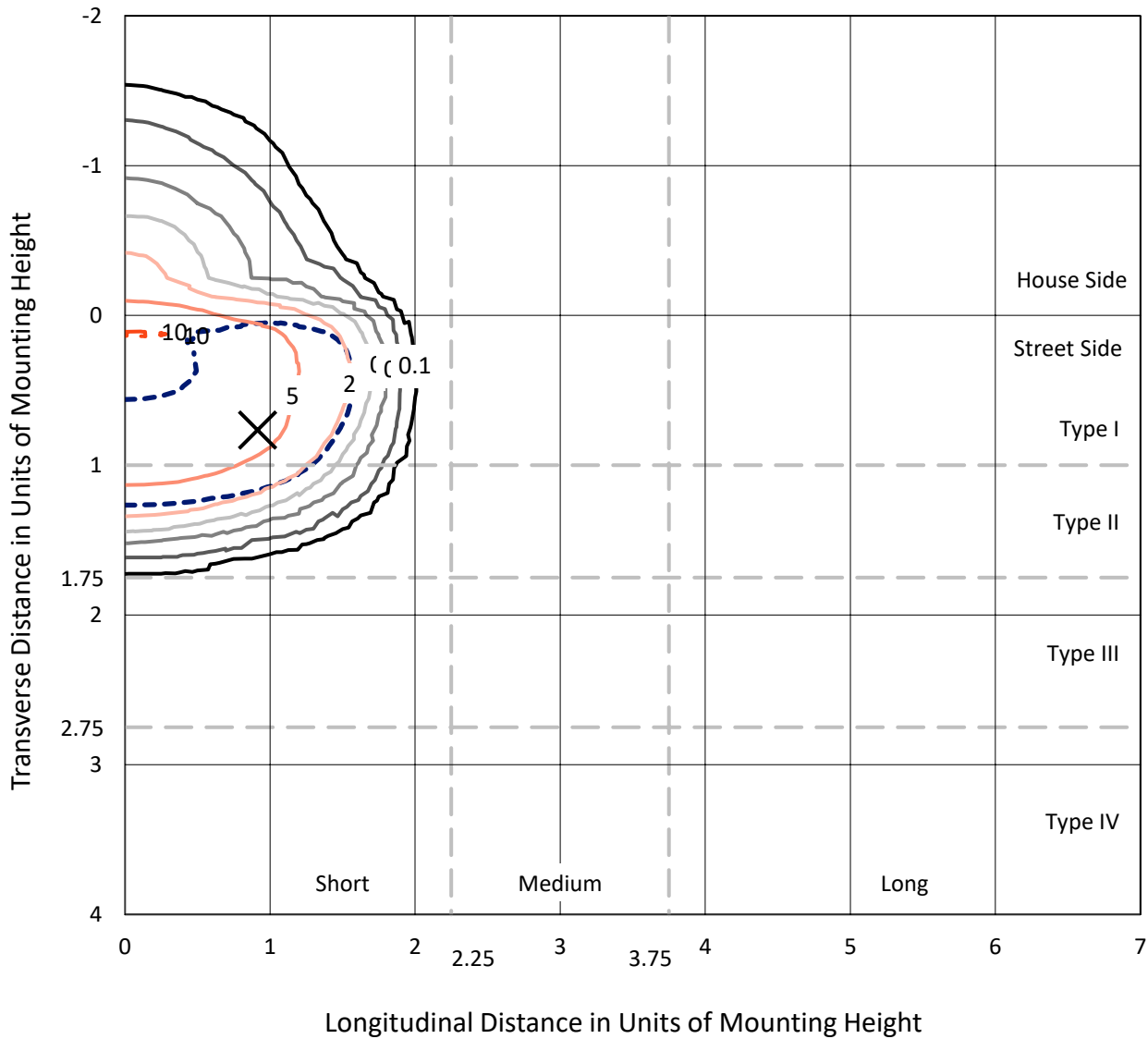
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

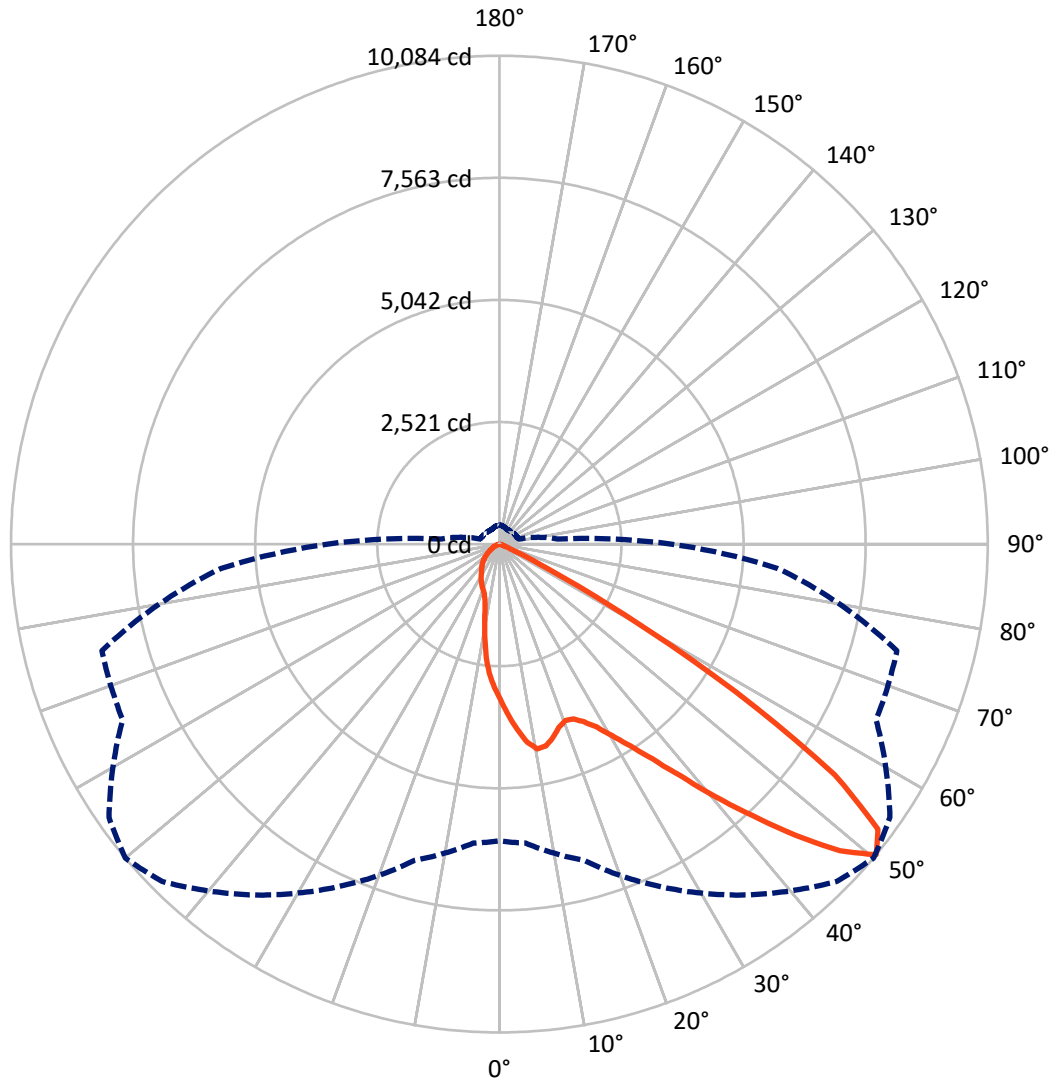
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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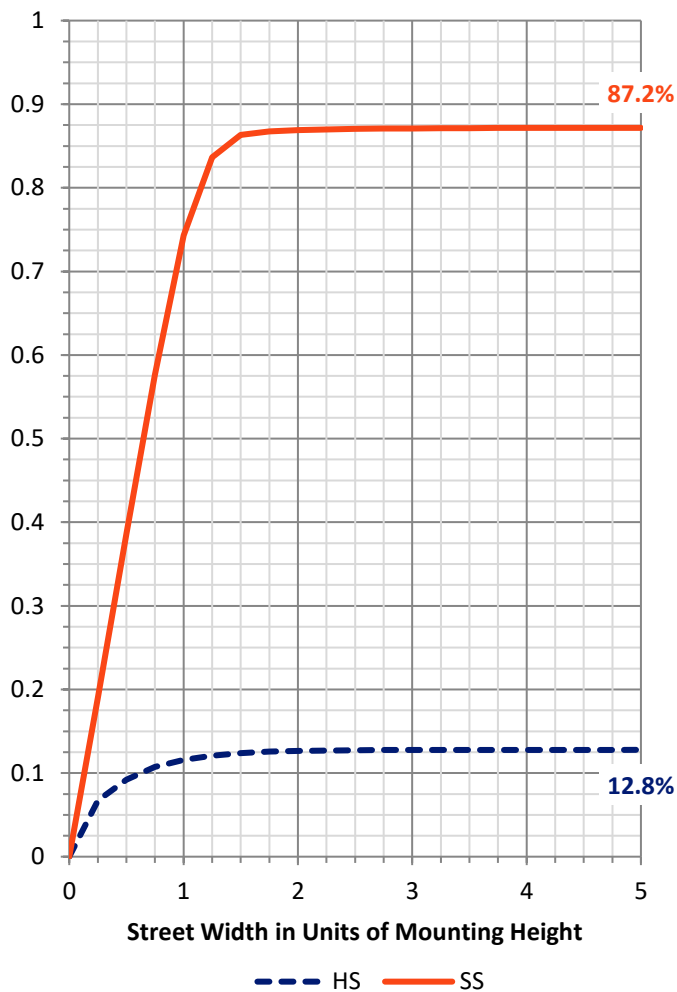
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1364.9	0.0	1364.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9258.2	0.0	9258.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	10623.1	0.0	10623.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	2.8
10°-20°	770.3	7.3
20°-30°	1271.3	12.0
30°-40°	2097.8	19.7
40°-50°	3319.3	31.2
50°-60°	2513.1	23.7
60°-70°	314.5	3.0
70°-80°	35.6	0.3
80°-90°	2.7	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°	10623.1	100.0
0°-180°	10623.1	100.0

Coefficient of Utilization



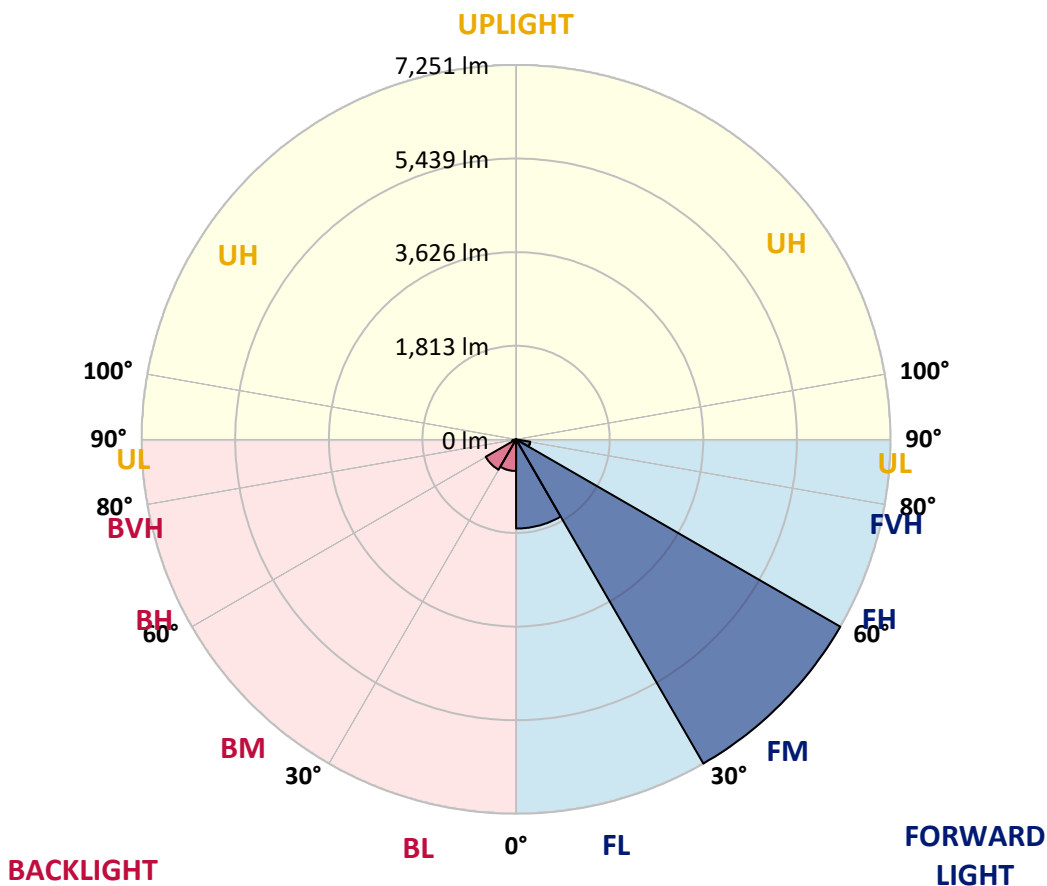
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1727.5	16.3			
FM (30°-60°)	7251.4	68.3			
FH (60°-80°)	278.1	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	612.6	5.8	B2/1000		
BM (30°-60°)	678.8	6.4	B1/1000		
BH (60°-80°)	72.0	0.7	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4
2.5°	3667.3	3696.6	3688.5	3650.1	3608.7	3579.3	3533.8	3519.7	3416.6	3344.8	3268.9
5°	4110.2	4119.3	4109.2	4062.7	3989.9	3920.1	3845.3	3801.8	3628.9	3473.2	3314.4
7.5°	4216.3	4205.2	4224.4	4247.7	4237.6	4207.2	4128.4	4080.9	3874.6	3620.8	3380.2
10°	3884.7	3859.4	3931.2	4051.5	4177.9	4320.5	4300.3	4304.3	4114.2	3806.8	3466.1
12.5°	3444.9	3434.8	3488.3	3627.9	3875.6	4199.2	4277.0	4407.4	4333.6	4008.1	3564.2
15°	3251.7	3256.8	3289.2	3377.1	3555.1	3957.5	4144.6	4380.1	4529.8	4203.2	3672.4
17.5°	3281.1	3299.3	3298.3	3327.6	3435.8	3758.3	3976.7	4294.2	4681.5	4427.7	3796.7
20°	3480.3	3498.5	3471.2	3448.9	3485.3	3707.8	3888.7	4207.2	4783.6	4654.2	3928.2
22.5°	3778.5	3799.8	3735.1	3671.4	3648.1	3790.7	3922.1	4171.9	4861.4	4861.4	4045.5
25°	4139.5	4168.8	4068.7	3955.5	3890.8	3965.6	4064.7	4251.7	4941.3	5047.5	4125.3
27.5°	4542.9	4543.9	4458.0	4330.6	4209.3	4218.4	4278.0	4431.7	5029.3	5247.7	4188.0
30°	4996.9	5000.0	4885.7	4733.0	4580.3	4538.9	4589.4	4705.7	5212.3	5499.5	4275.0
32.5°	5583.4	5597.5	5433.7	5209.3	5011.1	4933.2	4962.5	5084.9	5503.5	5814.9	4405.4
35°	6376.1	6391.3	6149.6	5853.3	5537.9	5420.6	5449.9	5573.3	5925.1	6262.8	4613.7
37.5°	7158.7	7178.9	6934.2	6658.2	6225.4	6031.3	6061.6	6178.9	6558.1	6881.6	4947.4
40°	7699.6	7726.9	7651.1	7465.1	7063.6	6808.8	6845.2	6887.7	7254.7	7621.8	5380.1
42.5°	7984.8	8023.2	8055.5	8150.6	7939.3	7725.9	7664.2	7667.3	7963.5	8376.1	5830.1
45°	8002.0	8039.4	8205.2	8572.2	8733.0	8688.5	8576.3	8500.4	8504.5	8878.6	6111.2
47.5°	7445.8	7515.6	7826.0	8544.9	9149.6	9518.6	9462.0	9282.0	8732.0	8912.0	6080.8
50°	6128.4	6197.1	6761.3	7795.7	8846.2	9850.3	10083.8	9842.2	8583.3	8496.4	5768.4
52.5°	4450.9	4458.0	4824.0	6032.3	7616.7	9238.6	9788.6	9765.3	8356.9	7992.9	5341.7
55°	2114.2	2089.0	2500.5	3404.4	5267.9	7472.1	8399.3	8662.2	8035.3	7628.9	5011.1
57.5°	615.8	627.9	810.9	1328.6	2635.0	4775.5	5752.2	6241.6	6595.5	6271.9	3886.7
60°	276.0	277.0	308.4	404.4	877.6	2221.4	2973.7	3579.3	3943.3	3654.2	1928.2
62.5°	200.2	201.2	213.3	228.5	298.3	752.3	1115.3	1486.3	1513.6	990.9	488.4
65°	166.8	166.8	168.9	168.9	179.0	269.0	338.7	436.8	368.0	273.0	191.1
67.5°	134.5	135.5	137.5	137.5	134.5	134.5	145.6	159.8	170.9	211.3	175.9
70°	105.2	104.1	104.1	105.2	102.1	87.0	94.0	107.2	117.3	164.8	152.7
72.5°	81.9	82.9	81.9	77.9	70.8	51.6	55.6	69.8	74.8	103.1	103.1
75°	61.7	62.7	58.6	44.5	29.3	16.2	21.2	34.4	43.5	50.6	37.4
77.5°	8.1	8.1	6.1	6.1	5.1	6.1	6.1	8.1	12.1	12.1	9.1
80°	1.0	1.0	1.0	2.0	3.0	4.0	4.0	4.0	4.0	5.1	5.1
82.5°	1.0	1.0	1.0	1.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0
85°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	4.0	4.0	4.0	4.0
87.5°	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	4.0	4.0	4.0
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°	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4	3218.4
2.5°	3223.4	3164.8	3094.0	3045.5	2976.7	2931.2	2866.5	2823.0	2785.6	2756.3	2772.5
5°	3224.4	3131.4	2986.8	2863.5	2729.0	2605.6	2473.2	2369.0	2275.0	2232.5	2255.8
7.5°	3244.7	3111.2	2889.8	2670.4	2412.5	2157.7	1919.1	1725.0	1628.9	1583.4	1597.6
10°	3284.1	3102.1	2781.6	2417.6	1999.0	1651.1	1419.6	1288.2	1234.6	1206.3	1211.3
12.5°	3320.5	3096.0	2641.0	2084.9	1577.3	1281.1	1160.8	1142.6	1153.7	1154.7	1153.7
15°	3370.0	3084.9	2467.1	1743.2	1261.9	1107.2	1110.2	1136.5	1162.8	1170.9	1168.8
17.5°	3422.6	3067.7	2242.7	1415.6	1070.8	1056.6	1092.0	1127.4	1153.7	1157.7	1158.7
20°	3477.2	3032.3	1986.8	1155.7	981.8	1018.2	1057.6	1083.9	1103.1	1109.2	1111.2
22.5°	3502.5	2957.5	1691.6	969.7	922.1	970.7	1000.0	1034.4	1040.4	1018.2	1022.2
25°	3489.4	2831.1	1403.4	844.3	862.5	911.0	954.5	937.3	912.0	895.8	900.9
27.5°	3447.9	2663.3	1121.3	752.3	798.8	860.5	865.5	846.3	842.3	829.1	833.2
30°	3403.4	2470.2	901.9	678.5	734.1	798.8	783.6	790.7	791.7	776.5	781.6
32.5°	3376.1	2267.9	717.9	628.9	692.6	704.7	735.1	749.2	750.2	714.9	720.9
35°	3385.2	2068.7	607.7	588.5	654.2	651.2	693.6	701.7	643.1	594.5	599.6
37.5°	3459.0	1884.7	545.0	557.1	587.5	610.7	643.1	589.5	576.3	554.1	557.1
40°	3596.5	1728.0	507.6	537.9	542.0	579.4	529.8	536.9	537.9	523.8	526.8
42.5°	3757.3	1597.6	485.3	526.8	516.7	522.7	473.2	487.4	502.5	496.5	497.5
45°	3838.2	1470.2	466.1	488.4	491.4	433.8	422.6	437.8	457.0	460.1	461.1
47.5°	3766.4	1348.8	445.9	432.8	453.0	395.3	382.2	387.3	409.5	421.6	423.7
50°	3547.0	1209.3	415.6	383.2	372.1	354.9	342.8	343.8	369.1	390.3	394.3
52.5°	3238.6	1063.7	366.0	324.6	299.3	312.4	315.5	309.4	332.7	353.9	357.9
55°	2939.3	881.7	290.2	263.9	240.6	269.0	277.0	269.0	276.0	290.2	291.2
57.5°	2069.8	498.5	222.4	218.4	199.2	230.5	243.7	231.5	219.4	228.5	230.5
60°	959.5	260.9	170.9	170.9	165.8	198.2	220.4	203.2	180.0	184.0	187.1
62.5°	300.3	164.8	125.4	118.3	135.5	168.9	187.1	169.9	142.6	142.6	146.6
65°	169.9	141.6	99.1	91.0	110.2	135.5	146.6	128.4	104.1	102.1	102.1
67.5°	157.7	134.5	88.0	73.8	77.9	87.0	91.0	78.9	71.8	70.8	71.8
70°	130.4	112.2	70.8	50.6	47.5	46.5	48.5	45.5	43.5	44.5	47.5
72.5°	80.9	67.7	44.5	30.3	26.3	25.3	25.3	25.3	24.3	24.3	24.3
75°	29.3	25.3	20.2	15.2	13.1	12.1	12.1	13.1	12.1	11.1	10.1
77.5°	9.1	8.1	8.1	8.1	7.1	6.1	5.1	5.1	4.0	3.0	3.0
80°	5.1	5.1	5.1	5.1	4.0	4.0	3.0	2.0	1.0	1.0	0.0
82.5°	5.1	5.1	5.1	4.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0
85°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	0.0	0.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.0	2.0	1.0	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)