

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: P633402

Luminaire Tested: GWS-SA2E-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633402
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-SA2E-760-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11086.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

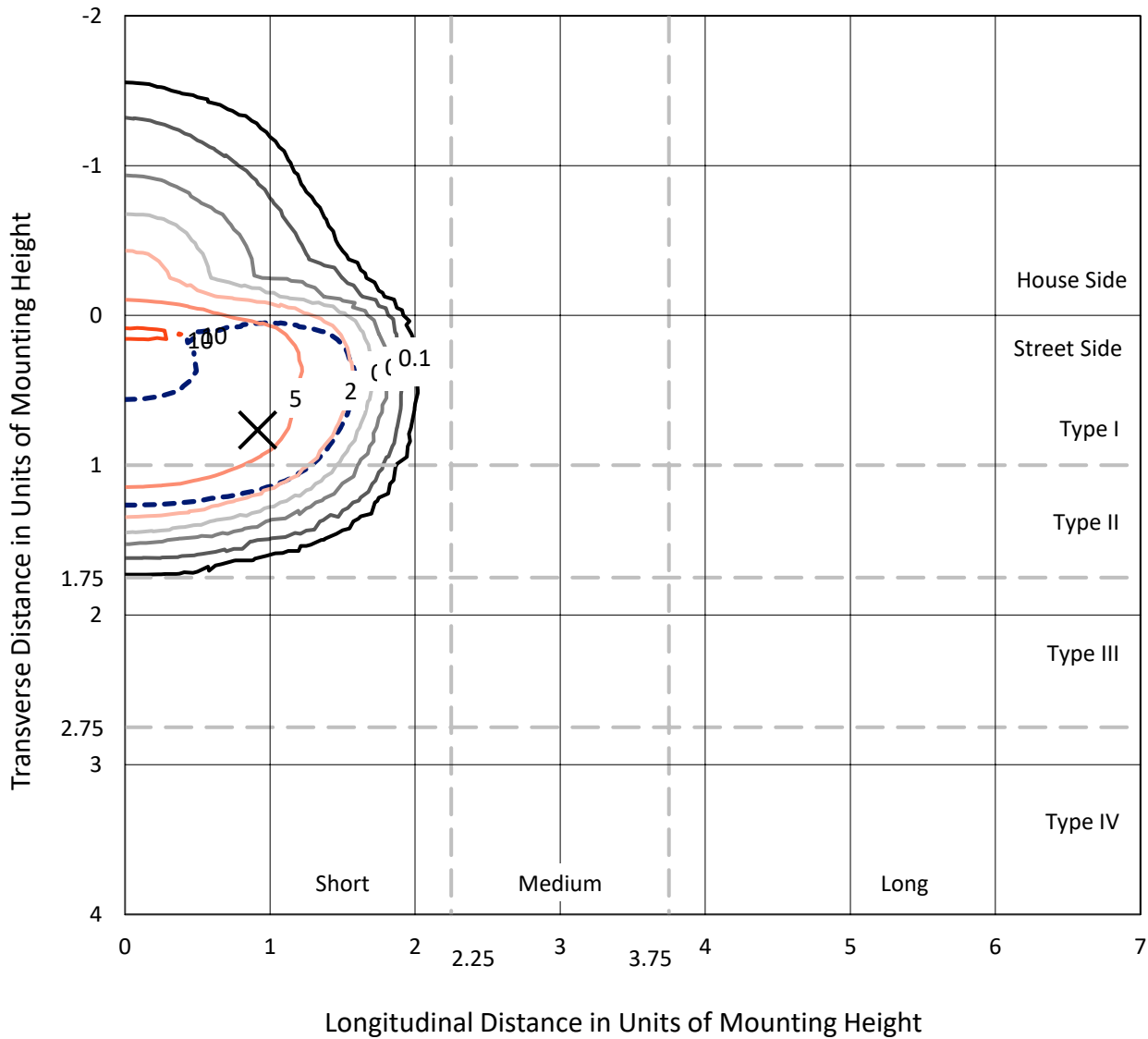
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

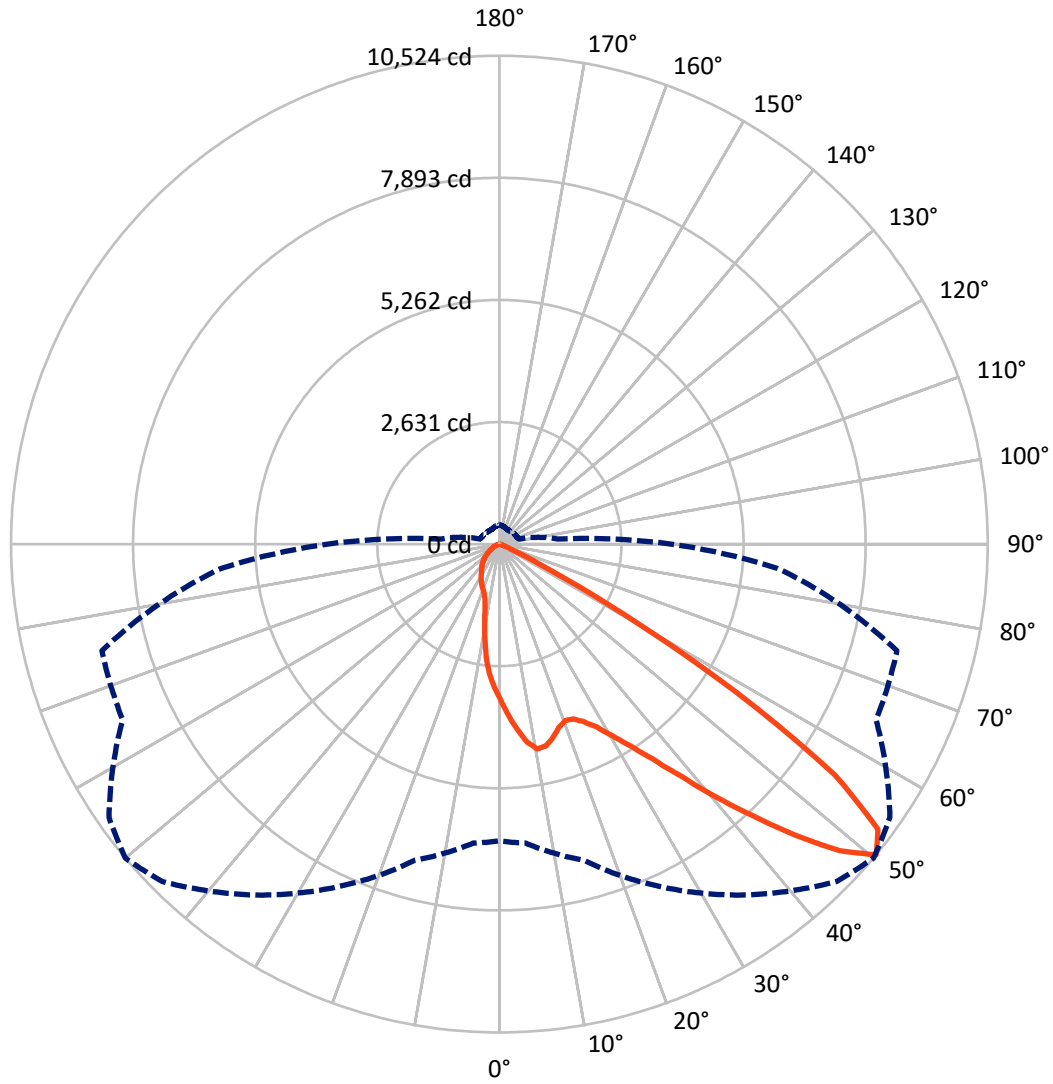
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 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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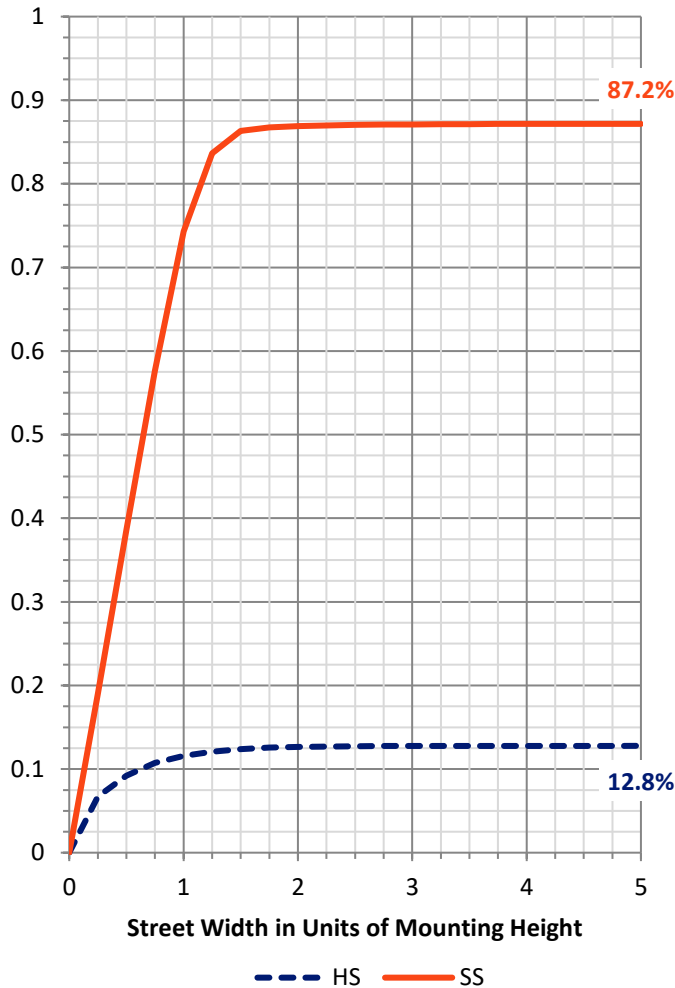
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1424.5	0.0	1424.5
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9662.4	0.0	9662.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	11086.9	0.0	11086.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	2.8
10°-20°	803.9	7.3
20°-30°	1326.8	12.0
30°-40°	2189.4	19.7
40°-50°	3464.2	31.2
50°-60°	2622.8	23.7
60°-70°	328.3	3.0
70°-80°	37.1	0.3
80°-90°	2.8	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°	11086.9	100.0
0°-180°	11086.9	100.0

Coefficient of Utilization



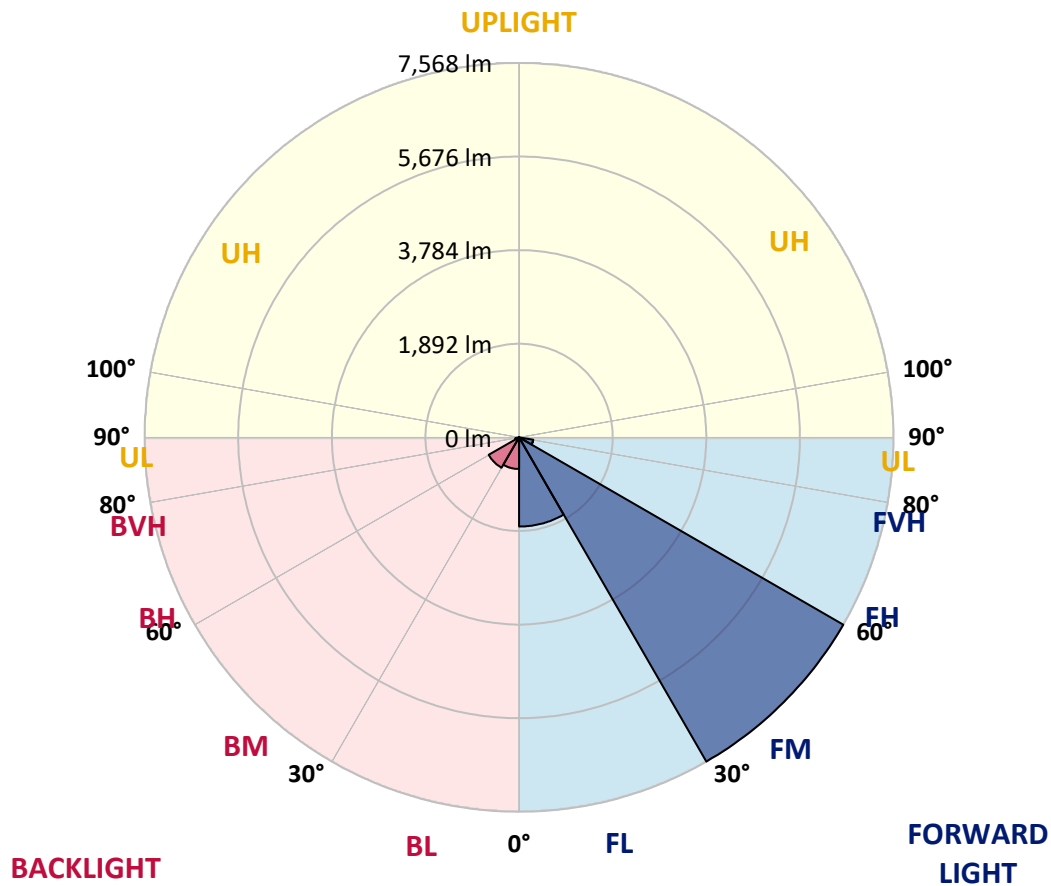
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.9	16.3			
FM (30°-60°)	7568.0	68.3			
FH (60°-80°)	290.2	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	639.4	5.8	B2/1000		
BM (30°-60°)	708.4	6.4	B1/1000		
BH (60°-80°)	75.2	0.7	B0/110		G0/110
BVH (80°-90°)	1.5	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°	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9
2.5°	3827.4	3858.0	3849.6	3809.5	3766.2	3735.6	3688.1	3673.4	3565.7	3490.8	3411.7
5°	4289.6	4299.1	4288.6	4240.0	4164.1	4091.2	4013.2	3967.8	3787.3	3624.8	3459.1
7.5°	4400.4	4388.8	4408.9	4433.1	4422.6	4390.9	4308.6	4259.0	4043.8	3778.9	3527.7
10°	4054.3	4027.9	4102.8	4228.4	4360.3	4509.1	4488.0	4492.2	4293.8	3973.1	3617.4
12.5°	3595.3	3584.7	3640.6	3786.3	4044.8	4382.5	4463.7	4599.9	4522.8	4183.0	3719.8
15°	3393.7	3399.0	3432.8	3524.6	3710.3	4130.3	4325.5	4571.4	4727.6	4386.7	3832.7
17.5°	3424.3	3443.3	3442.3	3472.9	3585.8	3922.4	4150.3	4481.7	4885.8	4621.0	3962.5
20°	3632.2	3651.2	3622.7	3599.5	3637.5	3869.6	4058.5	4390.9	4992.4	4857.4	4099.7
22.5°	3943.5	3965.7	3898.1	3831.6	3807.4	3956.2	4093.4	4354.0	5073.7	5073.7	4222.1
25°	4320.2	4350.8	4246.4	4128.2	4060.6	4138.7	4242.1	4437.4	5157.1	5267.9	4305.5
27.5°	4741.3	4742.3	4652.6	4519.7	4393.0	4402.5	4464.8	4625.2	5248.9	5476.8	4370.9
30°	5215.1	5218.3	5099.0	4939.7	4780.3	4737.1	4789.8	4911.2	5439.9	5739.6	4461.6
32.5°	5827.1	5841.9	5671.0	5436.7	5229.9	5148.6	5179.2	5306.9	5743.8	6068.8	4597.8
35°	6654.5	6670.3	6418.1	6108.9	5779.7	5657.2	5687.8	5816.6	6183.8	6536.3	4815.1
37.5°	7471.2	7492.3	7237.0	6948.9	6497.2	6294.6	6326.3	6448.7	6844.4	7182.1	5163.4
40°	8035.8	8064.3	7985.1	7791.0	7372.0	7106.1	7144.1	7188.4	7571.5	7954.5	5615.0
42.5°	8333.4	8373.5	8407.2	8506.4	8285.9	8063.2	7998.9	8002.0	8311.2	8741.8	6084.6
45°	8351.3	8390.4	8563.4	8946.5	9114.3	9067.8	8950.7	8871.6	8875.8	9266.2	6378.0
47.5°	7770.9	7843.7	8167.7	8918.0	9549.0	9934.2	9875.1	9687.3	9113.2	9301.1	6346.3
50°	6395.9	6467.7	7056.5	8136.0	9232.5	10280.3	10524.1	10271.9	8958.1	8867.3	6020.3
52.5°	4645.3	4652.6	5034.6	6295.7	7949.3	9641.9	10216.0	10191.7	8721.7	8341.8	5574.9
55°	2206.5	2180.2	2609.7	3553.1	5497.9	7798.4	8766.0	9040.4	8386.1	7961.9	5229.9
57.5°	642.7	655.3	846.3	1386.6	2750.0	4984.0	6003.4	6514.1	6883.5	6545.8	4056.4
60°	288.1	289.1	321.9	422.1	916.0	2318.4	3103.5	3735.6	4115.5	3813.7	2012.4
62.5°	208.9	210.0	222.7	238.5	311.3	785.1	1164.0	1551.2	1579.7	1034.2	509.7
65°	174.1	174.1	176.2	176.2	186.8	280.7	353.5	455.9	384.1	284.9	199.4
67.5°	140.3	141.4	143.5	143.5	140.3	140.3	152.0	166.7	178.3	220.5	183.6
70°	109.7	108.7	108.7	109.7	106.6	90.8	98.1	111.9	122.4	172.0	159.3
72.5°	85.5	86.5	85.5	81.3	73.9	53.8	58.0	72.8	78.1	107.6	107.6
75°	64.4	65.4	61.2	46.4	30.6	16.9	22.2	35.9	45.4	52.8	39.0
77.5°	8.4	8.4	6.3	6.3	5.3	6.3	6.3	8.4	12.7	12.7	9.5
80°	1.1	1.1	1.1	2.1	3.2	4.2	4.2	4.2	4.2	5.3	5.3
82.5°	1.1	1.1	1.1	1.1	3.2	3.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	1.1	2.1	3.2	3.2	4.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	1.1	2.1	3.2	3.2	3.2	4.2	4.2	4.2
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°	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9	3358.9
2.5°	3364.2	3303.0	3229.1	3178.4	3106.7	3059.2	2991.7	2946.3	2907.2	2876.6	2893.5
5°	3365.2	3268.1	3117.2	2988.5	2848.1	2719.4	2581.2	2472.5	2374.3	2330.0	2354.3
7.5°	3386.3	3247.0	3015.9	2786.9	2517.8	2251.9	2002.9	1800.3	1700.0	1652.5	1667.3
10°	3427.5	3237.5	2903.0	2523.1	2086.2	1723.2	1481.6	1344.4	1288.5	1258.9	1264.2
12.5°	3465.5	3231.2	2756.3	2175.9	1646.2	1337.0	1211.4	1192.4	1204.1	1205.1	1204.1
15°	3517.2	3219.6	2574.8	1819.3	1317.0	1155.5	1158.7	1186.1	1213.5	1222.0	1219.9
17.5°	3572.1	3201.7	2340.6	1477.4	1117.5	1102.7	1139.7	1176.6	1204.1	1208.3	1209.3
20°	3629.0	3164.7	2073.6	1206.2	1024.7	1062.6	1103.8	1131.2	1151.3	1157.6	1159.7
22.5°	3655.4	3086.6	1765.4	1012.0	962.4	1013.0	1043.7	1079.5	1085.9	1062.6	1066.9
25°	3641.7	2954.7	1464.7	881.1	900.1	950.8	996.2	978.2	951.8	935.0	940.2
27.5°	3598.4	2779.6	1170.3	785.1	833.7	898.0	903.3	883.3	879.0	865.3	869.5
30°	3552.0	2578.0	941.3	708.1	766.1	833.7	817.8	825.2	826.3	810.4	815.7
32.5°	3523.5	2366.9	749.2	656.4	722.9	735.5	767.2	781.9	783.0	746.1	752.4
35°	3533.0	2159.1	634.2	614.2	682.8	679.6	723.9	732.3	671.1	620.5	625.8
37.5°	3610.0	1967.0	568.8	581.4	613.1	637.4	671.1	615.2	601.5	578.3	581.4
40°	3753.6	1803.4	529.7	561.4	565.6	604.7	553.0	560.3	561.4	546.6	549.8
42.5°	3921.3	1667.3	506.5	549.8	539.2	545.6	493.9	508.6	524.5	518.1	519.2
45°	4005.8	1534.3	486.5	509.7	512.9	452.7	441.1	456.9	477.0	480.1	481.2
47.5°	3930.8	1407.7	465.4	451.7	472.8	412.6	398.9	404.2	427.4	440.0	442.2
50°	3701.8	1262.1	433.7	399.9	388.3	370.4	357.7	358.8	385.2	407.3	411.6
52.5°	3380.0	1110.1	382.0	338.7	312.4	326.1	329.2	322.9	347.2	369.3	373.6
55°	3067.6	920.2	302.9	275.4	251.2	280.7	289.1	280.7	288.1	302.9	303.9
57.5°	2160.1	520.2	232.2	227.9	207.9	240.6	254.3	241.7	229.0	238.5	240.6
60°	1001.4	272.3	178.3	178.3	173.1	206.8	230.0	212.1	187.8	192.1	195.2
62.5°	313.4	172.0	130.9	123.5	141.4	176.2	195.2	177.3	148.8	148.8	153.0
65°	177.3	147.7	103.4	95.0	115.0	141.4	153.0	134.0	108.7	106.6	106.6
67.5°	164.6	140.3	91.8	77.0	81.3	90.8	95.0	82.3	74.9	73.9	74.9
70°	136.1	117.1	73.9	52.8	49.6	48.5	50.7	47.5	45.4	46.4	49.6
72.5°	84.4	70.7	46.4	31.7	27.4	26.4	26.4	26.4	25.3	25.3	25.3
75°	30.6	26.4	21.1	15.8	13.7	12.7	12.7	13.7	12.7	11.6	10.6
77.5°	9.5	8.4	8.4	8.4	7.4	6.3	5.3	5.3	4.2	3.2	3.2
80°	5.3	5.3	5.3	5.3	4.2	4.2	3.2	2.1	1.1	1.1	0.0
82.5°	5.3	5.3	5.3	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.2	2.1	1.1	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)