

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: P633292

Luminaire Tested: GWS-SA2E-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633292
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10989.2 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

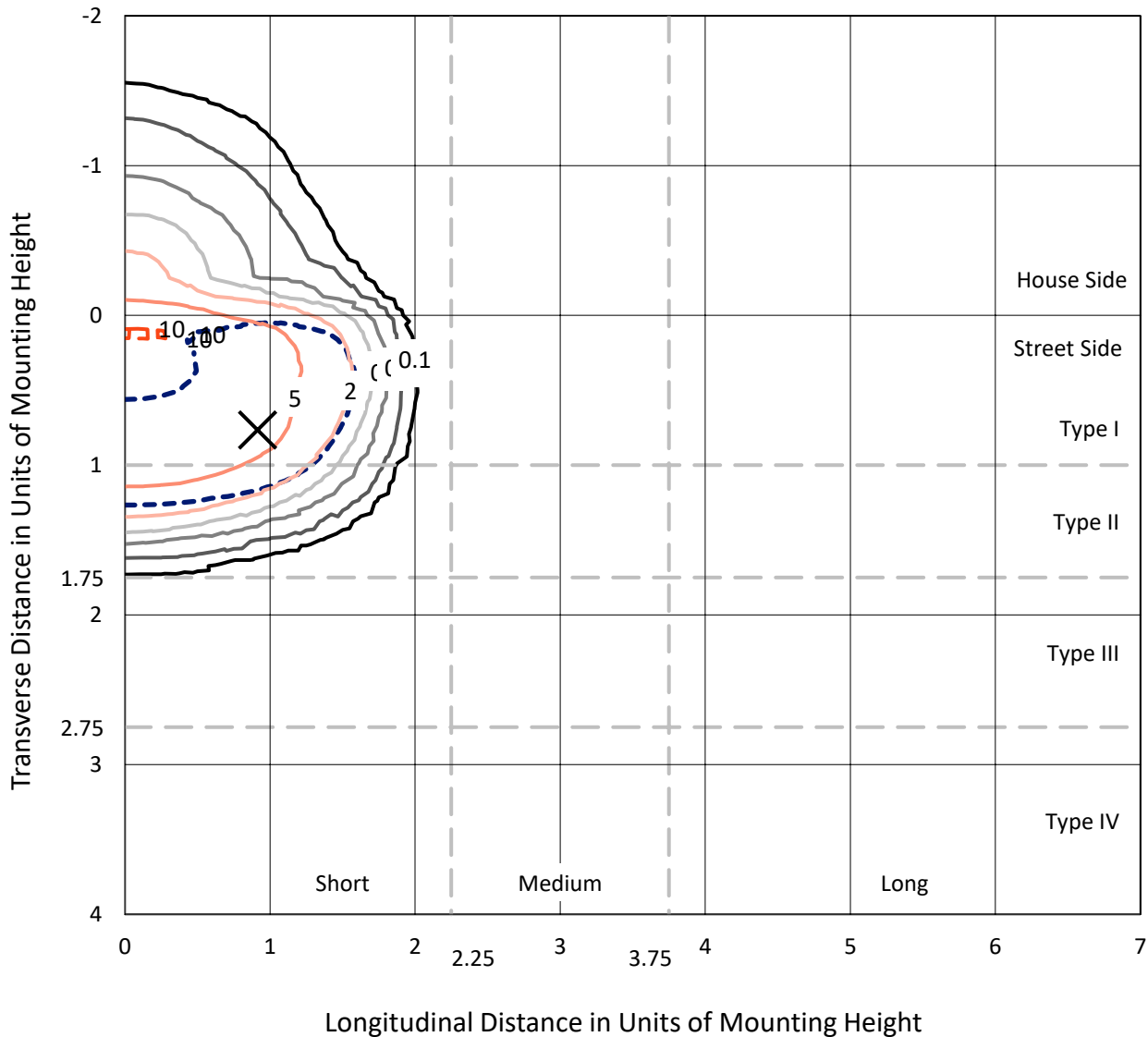
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

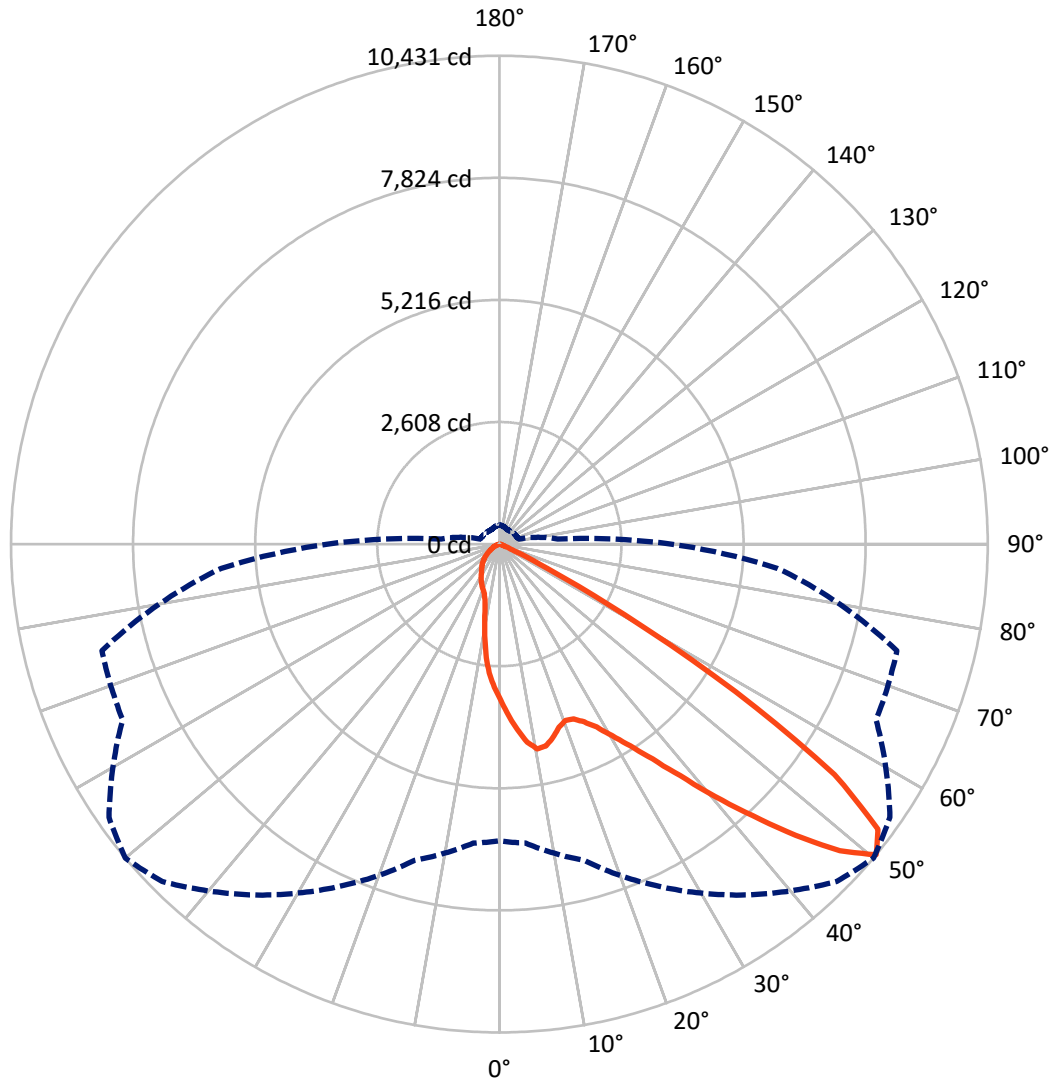
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 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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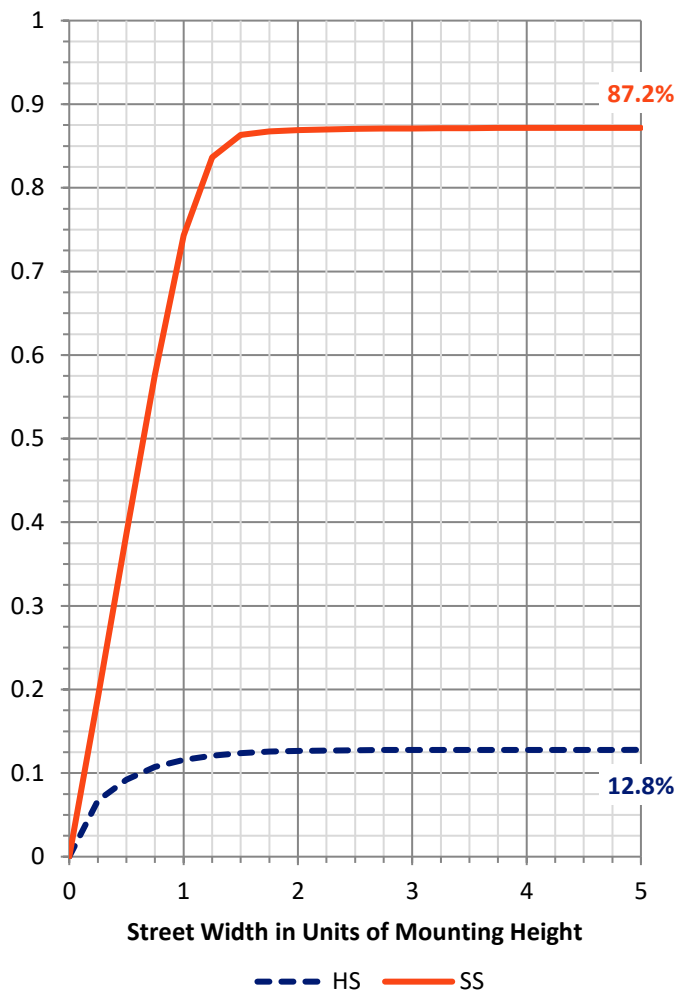
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.9	0.0	1411.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	9577.3	0.0	9577.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	10989.2	0.0	10989.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.8	2.8
10°-20°	796.8	7.3
20°-30°	1315.1	12.0
30°-40°	2170.1	19.7
40°-50°	3433.7	31.2
50°-60°	2599.7	23.7
60°-70°	325.4	3.0
70°-80°	36.8	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°	10989.2	100.0
0°-180°	10989.2	100.0

Coefficient of Utilization



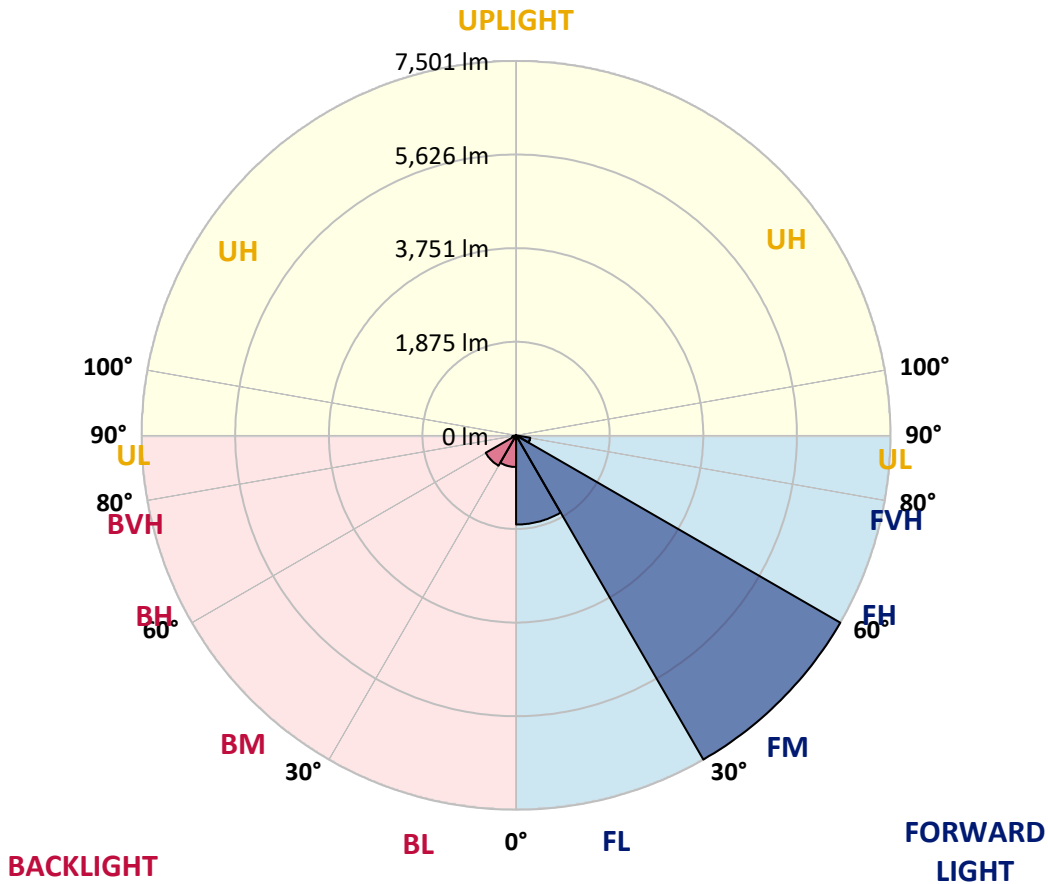
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.0	16.3			
FM (30°-60°)	7501.3	68.3			
FH (60°-80°)	287.7	2.6			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	633.7	5.8	B2/1000		
BM (30°-60°)	702.2	6.4	B1/1000		
BH (60°-80°)	74.5	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°	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3
2.5°	3793.7	3824.0	3815.7	3775.9	3733.0	3702.7	3655.6	3641.0	3534.3	3460.0	3381.6
5°	4251.8	4261.2	4250.8	4202.7	4127.4	4055.2	3977.8	3932.8	3754.0	3592.9	3428.7
7.5°	4361.7	4350.1	4370.0	4394.1	4383.6	4352.2	4270.7	4221.5	4008.1	3745.6	3496.6
10°	4018.6	3992.4	4066.7	4191.2	4321.9	4469.4	4448.5	4452.7	4256.0	3938.0	3585.6
12.5°	3563.6	3553.1	3608.6	3752.9	4009.2	4343.9	4424.4	4559.3	4483.0	4146.2	3687.0
15°	3363.8	3369.0	3402.5	3493.5	3677.6	4093.9	4287.4	4531.1	4685.9	4348.1	3798.9
17.5°	3394.1	3413.0	3411.9	3442.3	3554.2	3887.8	4113.8	4442.2	4842.8	4580.3	3927.6
20°	3600.2	3619.0	3590.8	3567.8	3605.4	3835.5	4022.8	4352.2	4948.4	4814.6	4063.6
22.5°	3908.8	3930.7	3863.8	3797.9	3773.8	3921.3	4057.3	4315.6	5029.0	5029.0	4184.9
25°	4282.2	4312.5	4208.9	4091.8	4024.9	4102.3	4204.8	4398.3	5111.6	5221.4	4267.5
27.5°	4699.5	4700.5	4611.6	4479.8	4354.3	4363.7	4425.5	4584.4	5202.6	5428.5	4332.4
30°	5169.1	5172.3	5054.1	4896.1	4738.2	4695.3	4747.6	4867.9	5391.9	5689.0	4422.3
32.5°	5775.8	5790.4	5621.0	5388.8	5183.8	5103.2	5133.6	5260.1	5693.2	6015.3	4557.2
35°	6595.8	6611.5	6361.5	6055.1	5728.7	5607.4	5637.7	5765.3	6129.3	6478.7	4772.7
37.5°	7405.4	7426.3	7173.2	6887.6	6440.0	6239.2	6270.5	6391.9	6784.1	7118.8	5117.9
40°	7965.0	7993.2	7914.8	7722.3	7307.1	7043.5	7081.1	7125.1	7504.8	7884.4	5565.6
42.5°	8259.9	8299.7	8333.2	8431.5	8212.9	7992.2	7928.4	7931.5	8238.0	8664.7	6031.0
45°	8277.7	8316.4	8488.0	8867.6	9034.0	8987.9	8871.8	8793.4	8797.6	9184.6	6321.8
47.5°	7702.4	7774.6	8095.7	8839.4	9464.9	9846.7	9788.1	9601.9	9032.9	9219.1	6290.4
50°	6339.6	6410.7	6994.3	8064.4	9151.1	10189.7	10431.4	10181.4	8879.2	8789.2	5967.2
52.5°	4604.3	4611.6	4990.3	6240.2	7879.2	9556.9	10125.9	10101.9	8644.9	8268.3	5525.8
55°	2187.1	2161.0	2586.7	3521.7	5449.5	7729.6	8688.8	8960.7	8312.2	7891.8	5183.8
57.5°	637.0	649.5	838.9	1374.4	2725.8	4940.1	5950.5	6456.7	6822.8	6488.1	4020.7
60°	285.5	286.6	319.0	418.4	907.9	2298.0	3076.2	3702.7	4079.2	3780.1	1994.6
62.5°	207.1	208.1	220.7	236.4	308.6	778.2	1153.7	1537.6	1565.8	1025.0	505.2
65°	172.6	172.6	174.7	174.7	185.1	278.2	350.4	451.9	380.7	282.4	197.7
67.5°	139.1	140.2	142.3	142.3	139.1	139.1	150.6	165.3	176.8	218.6	182.0
70°	108.8	107.7	107.7	108.8	105.6	90.0	97.3	110.9	121.3	170.5	157.9
72.5°	84.7	85.8	84.7	80.5	73.2	53.3	57.5	72.2	77.4	106.7	106.7
75°	63.8	64.8	60.7	46.0	30.3	16.7	22.0	35.6	45.0	52.3	38.7
77.5°	8.4	8.4	6.3	6.3	5.2	6.3	6.3	8.4	12.6	12.6	9.4
80°	1.0	1.0	1.0	2.1	3.1	4.2	4.2	4.2	4.2	5.2	5.2
82.5°	1.0	1.0	1.0	1.0	3.1	3.1	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	4.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.0	1.0	2.1	3.1	3.1	3.1	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°	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3	3329.3
2.5°	3334.5	3273.9	3200.6	3150.4	3079.3	3032.2	2965.3	2920.3	2881.6	2851.3	2868.0
5°	3335.6	3239.3	3089.8	2962.2	2823.0	2695.4	2558.4	2450.7	2353.4	2309.5	2333.5
7.5°	3356.5	3218.4	2989.4	2762.4	2495.7	2232.1	1985.2	1784.4	1685.0	1638.0	1652.6
10°	3397.3	3209.0	2877.4	2500.9	2067.9	1708.1	1468.5	1332.6	1277.1	1247.8	1253.1
12.5°	3434.9	3202.7	2732.0	2156.8	1631.7	1325.2	1200.8	1181.9	1193.4	1194.5	1193.4
15°	3486.2	3191.2	2552.1	1803.2	1305.4	1145.3	1148.5	1175.7	1202.9	1211.2	1209.1
17.5°	3540.6	3173.4	2319.9	1464.3	1107.7	1093.0	1129.6	1166.2	1193.4	1197.6	1198.7
20°	3597.1	3136.8	2055.3	1195.5	1015.6	1053.3	1094.1	1121.3	1141.1	1147.4	1149.5
22.5°	3623.2	3059.4	1749.9	1003.1	953.9	1004.1	1034.5	1070.0	1076.3	1053.3	1057.5
25°	3609.6	2928.7	1451.8	873.4	892.2	942.4	987.4	969.6	943.5	926.7	932.0
27.5°	3566.7	2755.1	1160.0	778.2	826.3	890.1	895.3	875.5	871.3	857.7	861.9
30°	3520.7	2555.3	933.0	701.8	759.4	826.3	810.6	817.9	819.0	803.3	808.5
32.5°	3492.5	2346.1	742.6	650.6	716.5	729.0	760.4	775.1	776.1	739.5	745.8
35°	3501.9	2140.0	628.6	608.7	676.7	673.6	717.5	725.9	665.2	615.0	620.3
37.5°	3578.2	1949.7	563.8	576.3	607.7	631.8	665.2	609.8	596.2	573.2	576.3
40°	3720.5	1787.5	525.1	556.5	560.6	599.3	548.1	555.4	556.5	541.8	544.9
42.5°	3886.8	1652.6	502.1	544.9	534.5	540.8	489.5	504.2	519.8	513.6	514.6
45°	3970.5	1520.8	482.2	505.2	508.3	448.7	437.2	452.9	472.8	475.9	477.0
47.5°	3896.2	1395.3	461.3	447.7	468.6	409.0	395.4	400.6	423.6	436.2	438.3
50°	3669.2	1251.0	429.9	396.4	384.9	367.1	354.6	355.6	381.8	403.7	407.9
52.5°	3350.2	1100.3	378.6	335.8	309.6	323.2	326.3	320.1	344.1	366.1	370.3
55°	3040.6	912.1	300.2	273.0	248.9	278.2	286.6	278.2	285.5	300.2	301.2
57.5°	2141.1	515.7	230.1	225.9	206.1	238.5	252.1	239.5	227.0	236.4	238.5
60°	992.6	269.9	176.8	176.8	171.5	205.0	228.0	210.2	186.2	190.4	193.5
62.5°	310.7	170.5	129.7	122.4	140.2	174.7	193.5	175.7	147.5	147.5	151.7
65°	175.7	146.4	102.5	94.1	114.0	140.2	151.7	132.8	107.7	105.6	105.6
67.5°	163.2	139.1	91.0	76.4	80.5	90.0	94.1	81.6	74.3	73.2	74.3
70°	134.9	116.1	73.2	52.3	49.2	48.1	50.2	47.1	45.0	46.0	49.2
72.5°	83.7	70.1	46.0	31.4	27.2	26.1	26.1	26.1	25.1	25.1	25.1
75°	30.3	26.1	20.9	15.7	13.6	12.6	12.6	13.6	12.6	11.5	10.5
77.5°	9.4	8.4	8.4	8.4	7.3	6.3	5.2	5.2	4.2	3.1	3.1
80°	5.2	5.2	5.2	5.2	4.2	4.2	3.1	2.1	1.0	1.0	0.0
82.5°	5.2	5.2	5.2	4.2	4.2	4.2	3.1	2.1	1.0	0.0	0.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	2.1	1.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	3.1	2.1	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)