

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: P637339

Luminaire Tested: GWS-SA4C-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16013.8 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

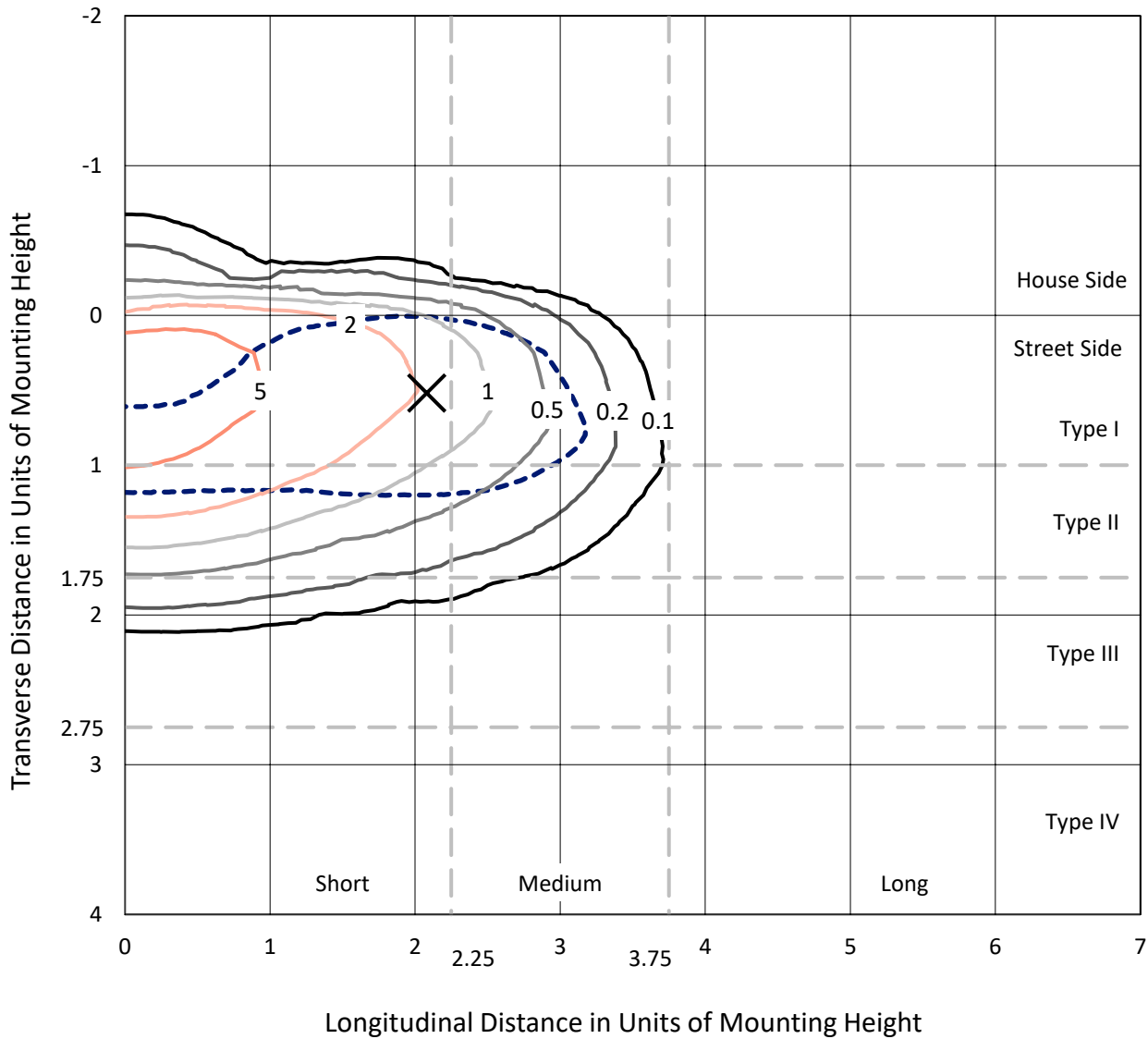
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

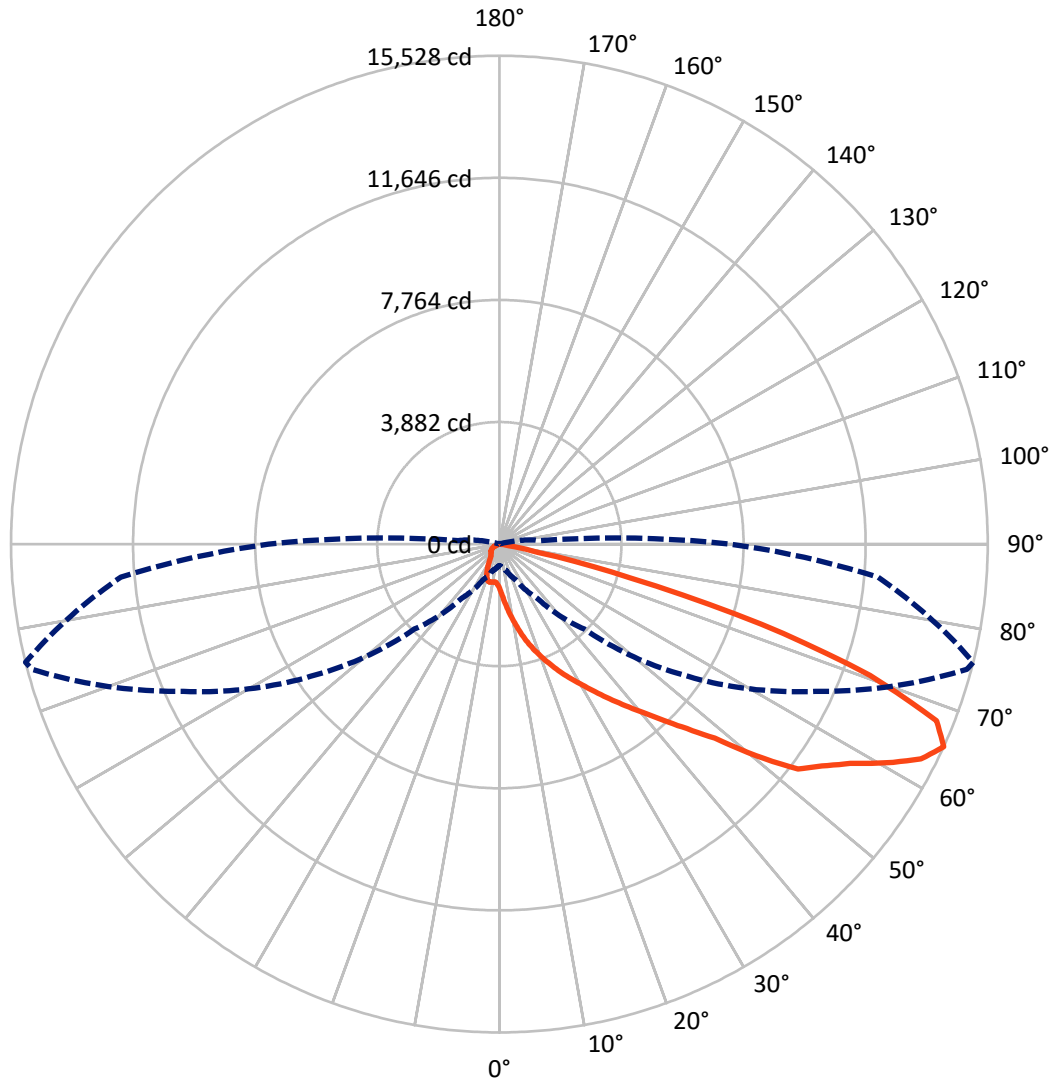
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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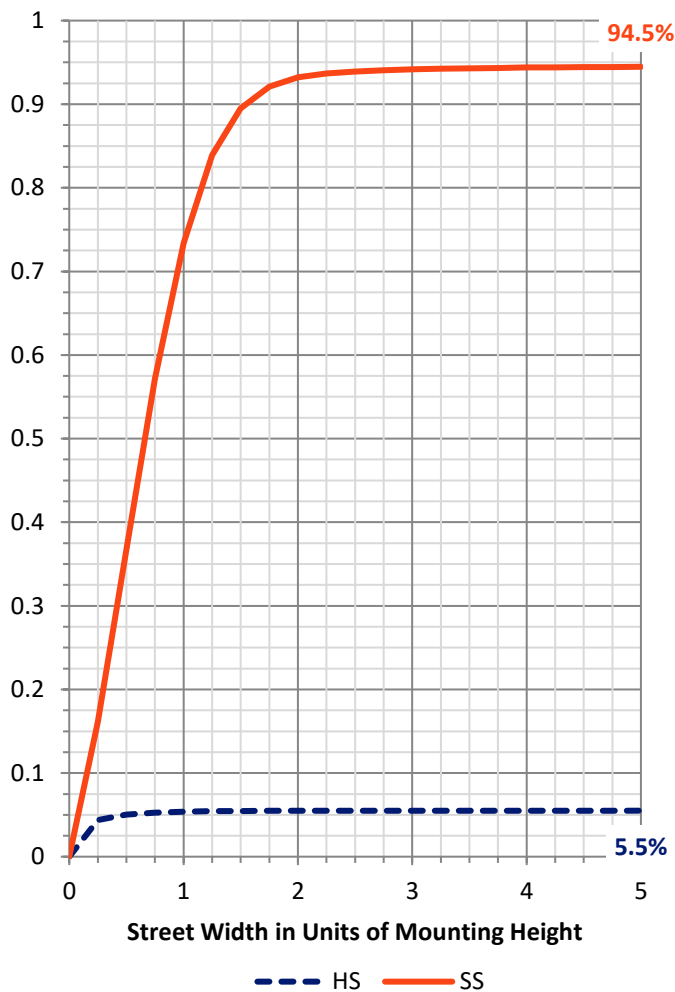
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.5	0.0	885.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	15128.3	0.0	15128.3
	% Fixture	94.5	0.0	94.5
Total	Lumens	16013.8	0.0	16013.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	1.1
10°-20°	654.5	4.1
20°-30°	1335.2	8.3
30°-40°	2374.8	14.8
40°-50°	3510.5	21.9
50°-60°	4019.2	25.1
60°-70°	3066.5	19.1
70°-80°	859.0	5.4
80°-90°	21.6	0.1
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°	16013.8	100.0
0°-180°	16013.8	100.0

Coefficient of Utilization



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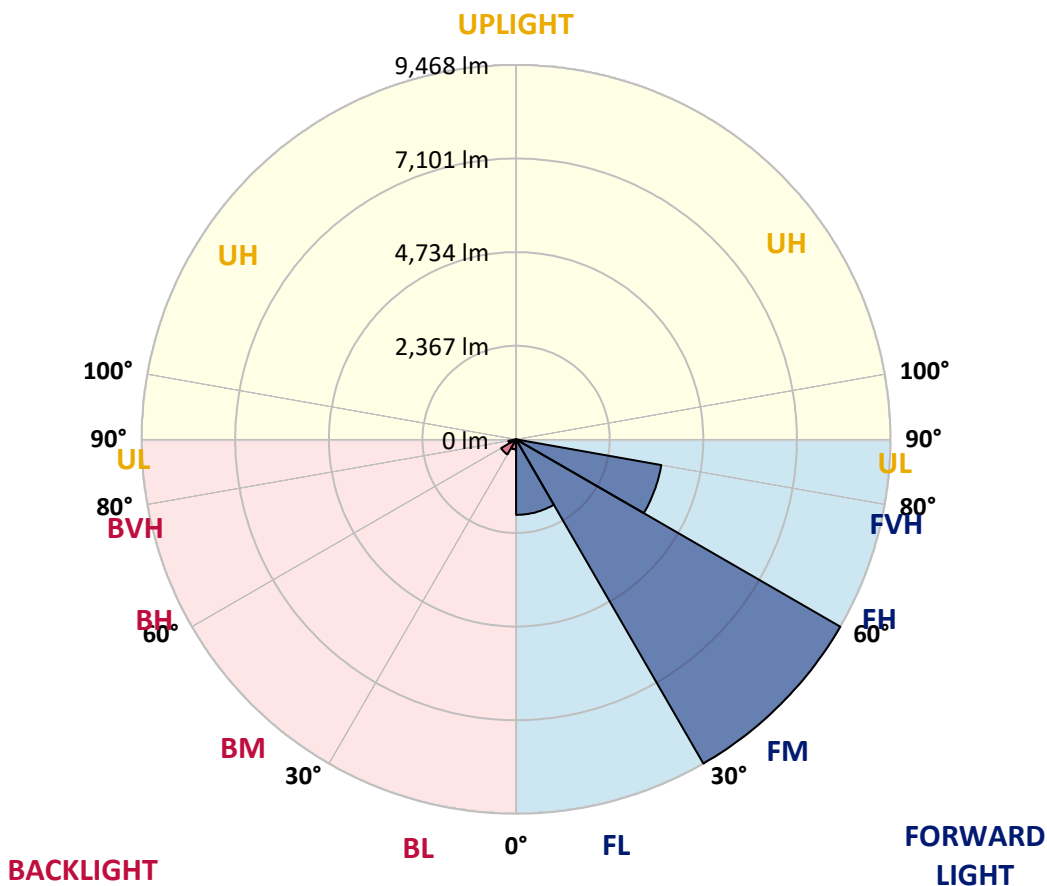
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.5	11.9			
FM (30°-60°)	9467.6	59.1			
FH (60°-80°)	3730.8	23.3			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	252.7	1.6	B1/500		
BM (30°-60°)	436.9	2.7	B1/1000		
BH (60°-80°)	194.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	2185.1	2217.8	2192.2	2149.5	2066.9	1987.2	1884.7	1743.8	1631.3	1617.1	1511.8
5°	2950.9	2948.1	2892.6	2837.0	2750.2	2613.5	2407.1	2145.2	1893.3	1871.9	1635.6
7.5°	3406.4	3410.7	3379.4	3336.7	3251.3	3110.3	2895.4	2579.4	2210.7	2168.0	1805.0
10°	3789.4	3787.9	3765.2	3745.2	3668.4	3574.4	3343.8	2996.5	2552.3	2485.4	1994.3
12.5°	4076.9	4086.9	4098.3	4118.2	4085.4	3992.9	3775.1	3396.5	2898.2	2824.2	2210.7
15°	4304.7	4307.5	4350.2	4427.1	4454.1	4405.7	4207.9	3783.7	3239.9	3175.8	2459.8
17.5°	4373.0	4378.7	4451.3	4592.2	4734.6	4761.6	4612.1	4173.7	3575.8	3507.5	2701.8
20°	4516.8	4529.6	4583.7	4707.5	4886.9	5032.1	4973.7	4568.0	3911.8	3822.1	2949.5
22.5°	4969.4	4976.6	4958.0	4973.7	5066.2	5234.2	5269.8	4949.5	4256.3	4160.9	3217.1
25°	5748.1	5750.9	5621.4	5499.0	5429.2	5460.5	5538.8	5301.1	4597.9	4504.0	3466.2
27.5°	6556.6	6566.6	6411.4	6203.6	5954.5	5812.1	5789.4	5622.8	4942.4	4838.5	3712.5
30°	7318.2	7318.2	7154.5	6901.1	6568.0	6290.4	6126.7	5947.4	5311.1	5197.2	3964.4
32.5°	8002.9	7997.2	7788.0	7513.2	7184.4	6879.8	6535.3	6286.2	5721.0	5594.4	4254.8
35°	8568.0	8553.8	8316.1	8052.7	7701.1	7474.8	7090.5	6650.6	6165.2	6038.5	4553.8
37.5°	8995.1	8979.4	8761.6	8482.6	8156.7	8010.0	7688.3	7087.6	6633.5	6518.2	4885.4
40°	9227.1	9195.8	9044.9	8837.1	8563.8	8435.7	8301.8	7630.0	7184.4	7040.6	5276.9
42.5°	9295.5	9258.4	9158.8	9062.0	8896.9	8795.8	8939.6	8242.1	7789.4	7665.5	5723.9
45°	9093.3	9072.0	9063.4	9133.2	9163.1	9191.5	9546.0	8919.6	8457.0	8363.1	6286.2
47.5°	8606.5	8600.8	8676.2	8966.6	9282.6	9583.0	10205.1	9755.2	9322.5	9221.4	7071.9
50°	7706.8	7765.2	7975.9	8485.5	9117.5	9805.1	10821.4	10914.0	10723.2	10575.2	8096.9
52.5°	6300.4	6412.9	6885.5	7659.9	8568.0	9742.4	11106.1	11842.1	12037.1	11883.4	8831.4
55°	4943.8	5049.2	5470.5	6452.7	7664.1	9265.6	11119.0	12162.4	12588.0	12445.7	9328.2
57.5°	3682.6	3779.4	4162.3	5101.8	6434.2	8327.5	10814.3	12340.3	13241.4	13150.3	10112.5
60°	2407.1	2502.5	2848.4	3669.8	4990.8	6960.9	10064.1	12303.3	14131.1	14122.5	11076.2
62.5°	1335.2	1410.7	1661.2	2301.8	3483.3	5390.8	8885.5	11931.8	14992.3	15046.4	11870.6
65°	683.3	731.7	884.0	1265.5	2108.2	3822.1	7335.3	11080.5	15390.9	15527.5	12079.8
67.5°	447.0	462.6	499.6	657.7	1128.8	2404.3	5520.3	9715.4	14830.0	14989.4	11378.0
70°	363.0	375.8	397.2	438.4	582.2	1276.9	3625.7	7759.5	12391.6	12499.7	9060.6
72.5°	266.2	283.3	324.6	351.6	419.9	700.4	1886.1	5093.3	8509.7	8700.4	5694.0
75°	196.4	206.4	240.6	277.6	343.1	442.7	721.7	2677.6	4394.3	4283.3	2391.5
77.5°	118.2	125.3	153.7	177.9	244.8	276.2	252.0	989.3	1336.7	1256.9	577.9
80°	58.4	65.5	101.1	133.8	156.6	111.0	105.3	276.2	297.5	297.5	145.2
82.5°	19.9	25.6	54.1	88.3	76.9	42.7	49.8	71.2	79.7	84.0	42.7
85°	0.0	0.0	12.8	25.6	11.4	5.7	12.8	15.7	19.9	21.4	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3	5.7	5.7
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°	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8	1417.8
2.5°	1454.8	1387.9	1286.8	1195.7	1126.0	1060.5	1010.7	970.8	963.7	940.9	943.8
5°	1520.3	1399.3	1212.8	1069.0	968.0	899.7	842.7	800.0	781.5	763.0	748.8
7.5°	1621.4	1446.3	1184.4	1009.3	891.1	785.8	697.5	626.3	592.2	570.8	556.6
10°	1745.2	1511.8	1185.8	973.7	798.6	637.7	516.7	438.4	401.4	390.0	388.6
12.5°	1893.3	1594.3	1197.2	915.3	664.8	474.0	382.9	347.3	335.9	326.0	326.0
15°	2049.8	1686.8	1197.2	808.5	506.8	370.1	331.7	308.9	294.7	289.0	286.1
17.5°	2215.0	1773.7	1168.7	661.9	388.6	326.0	294.7	273.3	261.9	253.4	250.5
20°	2391.5	1856.2	1097.5	506.8	333.1	291.8	261.9	240.6	229.2	220.6	220.6
22.5°	2570.8	1933.1	982.2	390.0	294.7	259.1	230.6	210.7	199.3	190.7	190.7
25°	2737.4	1984.4	834.2	321.7	266.2	230.6	205.0	185.1	172.2	166.5	163.7
27.5°	2892.6	2017.1	670.5	283.3	239.1	206.4	179.4	160.9	150.9	146.6	143.8
30°	3053.4	2025.6	512.5	257.7	216.4	182.2	156.6	142.3	133.8	128.1	128.1
32.5°	3210.0	2015.7	391.5	236.3	196.4	160.9	139.5	126.7	119.6	115.3	113.9
35°	3369.4	1970.1	317.4	217.8	176.5	140.9	123.8	113.9	109.6	103.9	103.9
37.5°	3543.1	1908.9	276.2	199.3	156.6	126.7	111.0	103.9	98.2	94.0	92.5
40°	3759.5	1837.7	253.4	183.6	138.1	113.9	99.6	92.5	88.3	84.0	82.6
42.5°	4015.7	1768.0	242.0	166.5	123.8	101.1	89.7	81.1	76.9	71.2	69.8
45°	4378.7	1752.3	229.2	148.0	111.0	91.1	78.3	69.8	64.1	59.8	58.4
47.5°	4962.3	1796.5	207.8	128.1	98.2	79.7	66.9	59.8	52.7	48.4	45.6
50°	5541.7	1785.1	186.5	111.0	86.8	68.3	56.9	49.8	42.7	38.4	37.0
52.5°	5857.7	1731.0	166.5	98.2	75.4	58.4	48.4	39.9	35.6	31.3	29.9
55°	6143.8	1709.6	146.6	85.4	64.1	51.2	39.9	32.7	29.9	25.6	24.2
57.5°	6704.7	1759.4	129.5	74.0	55.5	44.1	34.2	27.0	24.2	19.9	18.5
60°	7291.2	1765.1	111.0	64.1	48.4	37.0	27.0	21.4	18.5	14.2	12.8
62.5°	7597.2	1621.4	91.1	54.1	39.9	31.3	22.8	17.1	14.2	8.5	8.5
65°	7341.0	1311.0	76.9	44.1	31.3	24.2	17.1	12.8	8.5	4.3	1.4
67.5°	6496.9	932.4	64.1	35.6	22.8	17.1	12.8	8.5	1.4	0.0	0.0
70°	4757.3	532.4	49.8	25.6	17.1	11.4	8.5	4.3	0.0	0.0	0.0
72.5°	2923.9	284.7	37.0	17.1	12.8	8.5	7.1	2.8	0.0	0.0	0.0
75°	1108.9	136.7	22.8	11.4	10.0	7.1	4.3	1.4	0.0	0.0	0.0
77.5°	300.4	66.9	12.8	8.5	7.1	4.3	2.8	0.0	0.0	0.0	0.0
80°	78.3	31.3	8.5	5.7	4.3	2.8	0.0	0.0	0.0	0.0	0.0
82.5°	27.0	14.2	4.3	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	11.4	5.7	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.4	1.4	1.4	1.4	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)