

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: P638219

Luminaire Tested: GWS-SA4E-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638219
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-SA4E-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24342.2 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

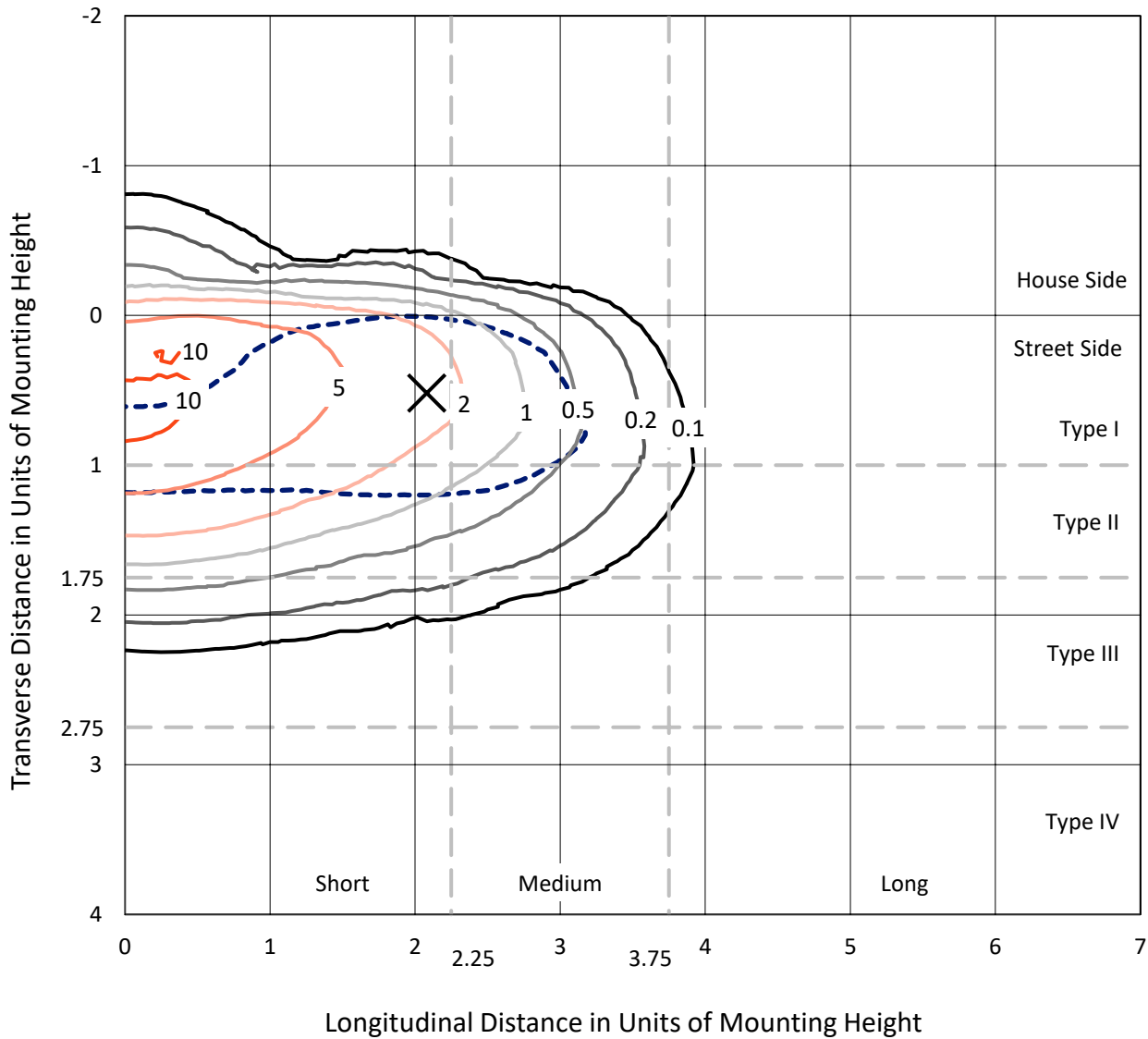
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

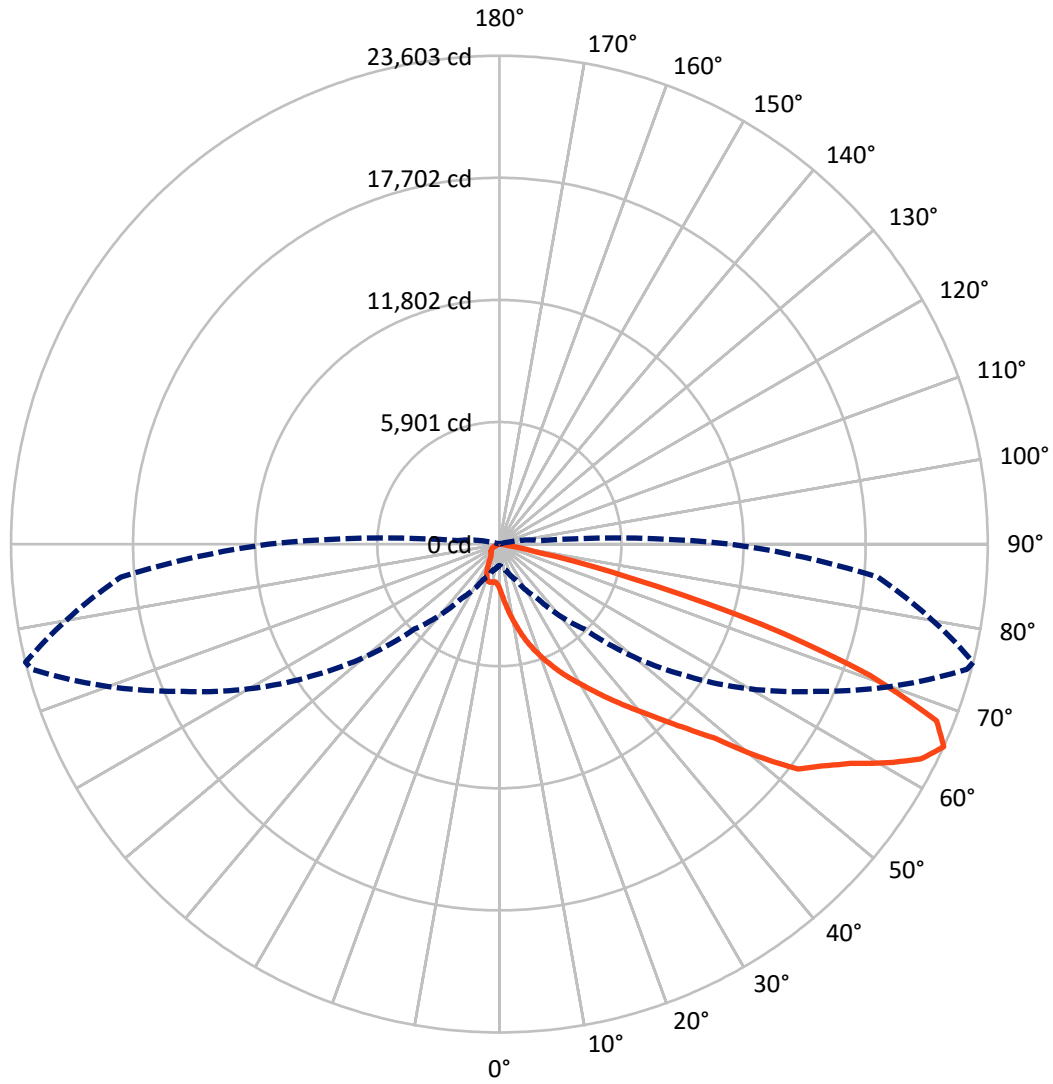
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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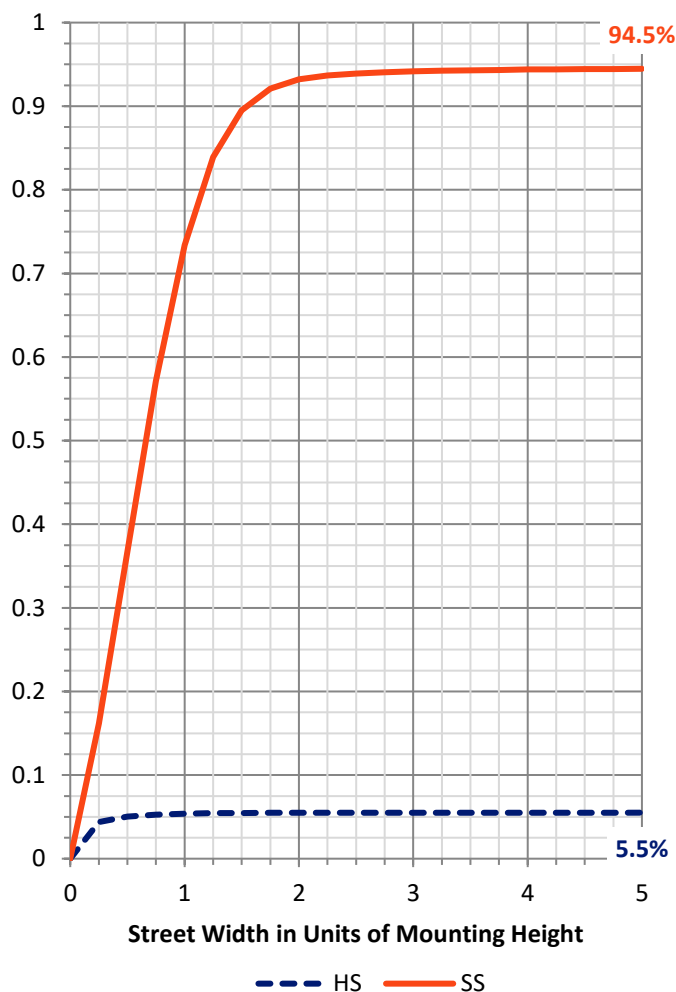
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.0	0.0	1346.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	22996.2	0.0	22996.2
	% Fixture	94.5	0.0	94.5
Total	Lumens	24342.2	0.0	24342.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.2	1.1
10°-20°	994.9	4.1
20°-30°	2029.7	8.3
30°-40°	3609.8	14.8
40°-50°	5336.2	21.9
50°-60°	6109.5	25.1
60°-70°	4661.3	19.1
70°-80°	1305.7	5.4
80°-90°	32.9	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°	24342.2	100.0
0°-180°	24342.2	100.0

Coefficient of Utilization



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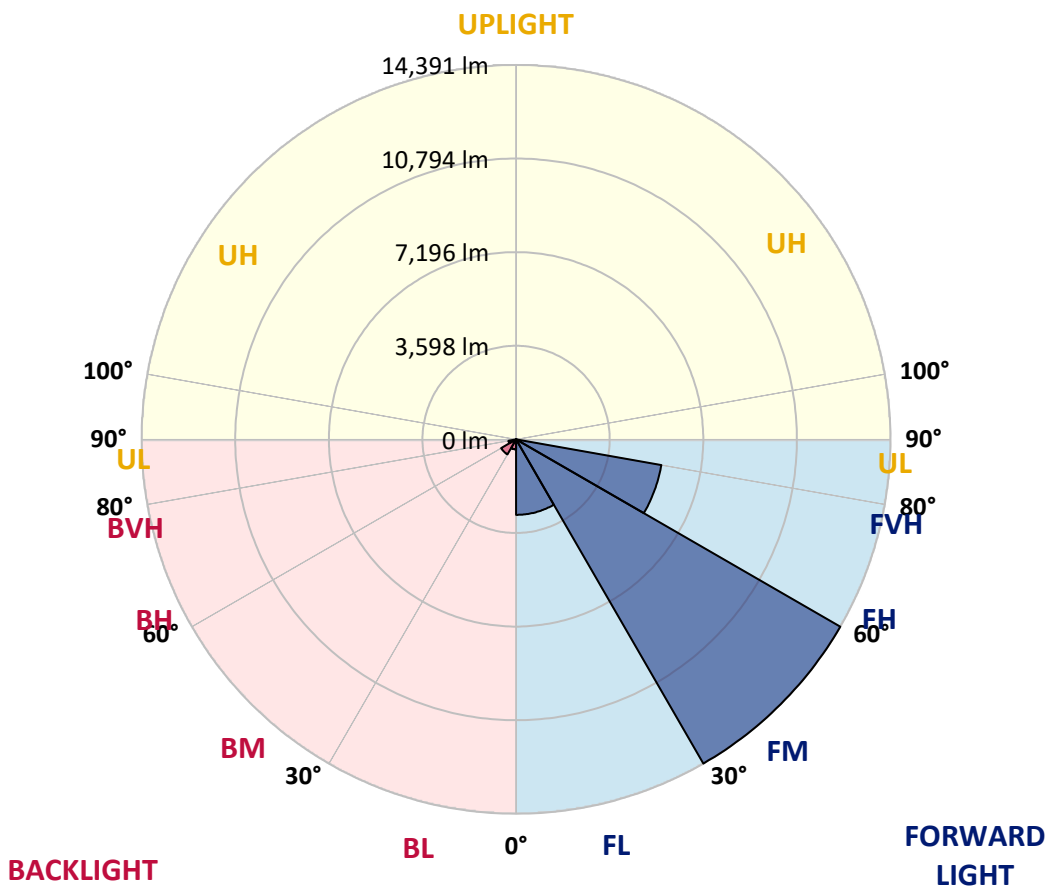
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2902.6	11.9			
FM (30°-60°)	14391.5	59.1			
FH (60°-80°)	5671.1	23.3			G3/7500
FVH (80°-90°)	31.0	0.1			G1/100
BL (0°-30°)	384.1	1.6	B1/500		
BM (30°-60°)	664.1	2.7	B1/1000		
BH (60°-80°)	295.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2
2.5°	3321.5	3371.2	3332.3	3267.4	3141.9	3020.7	2864.9	2650.7	2479.7	2458.1	2298.0
5°	4485.6	4481.3	4396.9	4312.5	4180.5	3972.8	3659.0	3260.9	2877.9	2845.4	2486.2
7.5°	5178.0	5184.5	5136.9	5072.0	4942.2	4728.0	4401.2	3920.9	3360.4	3295.5	2743.7
10°	5760.1	5757.9	5723.3	5693.0	5576.2	5433.4	5082.8	4554.9	3879.7	3778.0	3031.5
12.5°	6197.2	6212.3	6229.7	6260.0	6210.2	6069.5	5738.5	5162.9	4405.6	4293.0	3360.4
15°	6543.4	6547.7	6612.7	6729.5	6770.6	6697.0	6396.3	5751.5	4924.9	4827.5	3739.1
17.5°	6647.3	6655.9	6766.3	6980.5	7196.9	7238.0	7010.8	6344.3	5435.5	5331.7	4106.9
20°	6865.8	6885.3	6967.5	7155.8	7428.4	7649.1	7560.4	6943.7	5946.2	5809.9	4483.5
22.5°	7553.9	7564.7	7536.6	7560.4	7701.1	7956.4	8010.5	7523.6	6469.8	6324.9	4890.3
25°	8737.5	8741.9	8545.0	8358.9	8252.8	8300.4	8419.5	8058.1	6989.2	6846.4	5268.9
27.5°	9966.6	9981.7	9745.9	9430.0	9051.3	8834.9	8800.3	8547.1	7512.8	7354.9	5643.3
30°	11124.2	11124.2	10875.4	10490.2	9983.9	9562.0	9313.1	9040.5	8073.2	7900.1	6026.3
32.5°	12165.0	12156.4	11838.3	11420.7	10920.8	10457.8	9934.1	9555.5	8696.4	8503.8	6467.7
35°	13024.1	13002.4	12641.1	12240.8	11706.3	11362.3	10778.0	10109.4	9371.5	9179.0	6922.1
37.5°	13673.2	13649.4	13318.4	12894.3	12398.7	12175.9	11686.8	10773.7	10083.4	9908.2	7426.3
40°	14025.9	13978.3	13749.0	13433.0	13017.6	12822.8	12619.4	11598.1	10920.8	10702.3	8021.3
42.5°	14129.8	14073.5	13922.1	13774.9	13523.9	13370.3	13588.8	12528.6	11840.5	11652.2	8700.8
45°	13822.5	13790.1	13777.1	13883.1	13928.6	13971.8	14510.6	13558.5	12855.3	12712.5	9555.5
47.5°	13082.5	13073.8	13188.5	13630.0	14110.3	14566.9	15512.5	14828.7	14170.9	14017.3	10749.9
50°	11715.0	11803.7	12123.9	12898.6	13859.3	14904.4	16449.4	16590.1	16300.1	16075.1	12307.9
52.5°	9577.1	9748.0	10466.4	11643.6	13024.1	14809.2	16882.2	18000.9	18297.3	18063.6	13424.4
55°	7515.0	7675.1	8315.6	9808.6	11650.0	14084.4	16901.7	18487.7	19134.7	18918.3	14179.6
57.5°	5597.8	5745.0	6327.0	7755.2	9780.5	12658.4	16438.6	18758.2	20127.9	19989.4	15371.8
60°	3659.0	3804.0	4329.8	5578.3	7586.4	10581.1	15298.3	18702.0	21480.3	21467.3	16836.7
62.5°	2029.7	2144.4	2525.2	3498.9	5294.9	8194.4	13506.6	18137.2	22789.4	22871.7	18044.2
65°	1038.6	1112.2	1343.7	1923.6	3204.6	5809.9	11150.2	16843.2	23395.3	23603.0	18362.2
67.5°	679.4	703.2	759.5	999.7	1715.9	3654.7	8391.3	14768.1	22542.8	22785.1	17295.5
70°	551.8	571.3	603.7	666.5	885.0	1941.0	5511.3	11795.0	18836.1	19000.6	13772.8
72.5°	404.6	430.6	493.4	534.5	638.3	1064.6	2867.1	7742.2	12935.4	13225.3	8655.3
75°	298.6	313.8	365.7	421.9	521.5	673.0	1097.1	4070.2	6679.7	6511.0	3635.2
77.5°	179.6	190.4	233.7	270.5	372.2	419.8	383.0	1503.9	2031.8	1910.7	878.5
80°	88.7	99.5	153.6	203.4	238.0	168.8	160.1	419.8	452.2	452.2	220.7
82.5°	30.3	38.9	82.2	134.2	116.8	64.9	75.7	108.2	121.2	127.7	64.9
85°	0.0	0.0	19.5	38.9	17.3	8.7	19.5	23.8	30.3	32.5	21.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.5	8.7	8.7
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°	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2	2155.2
2.5°	2211.4	2109.7	1956.1	1817.6	1711.6	1612.1	1536.3	1475.7	1464.9	1430.3	1434.6
5°	2311.0	2127.0	1843.6	1625.0	1471.4	1367.5	1281.0	1216.1	1187.9	1159.8	1138.2
7.5°	2464.6	2198.4	1800.3	1534.2	1354.6	1194.4	1060.3	952.1	900.2	867.7	846.1
10°	2652.9	2298.0	1802.5	1480.1	1213.9	969.4	785.5	666.5	610.2	592.9	590.7
12.5°	2877.9	2423.5	1819.8	1391.3	1010.5	720.6	582.1	528.0	510.7	495.5	495.5
15°	3115.9	2564.1	1819.8	1229.1	770.3	562.6	504.2	469.6	447.9	439.3	434.9
17.5°	3366.9	2696.1	1776.5	1006.2	590.7	495.5	447.9	415.5	398.1	385.2	380.8
20°	3635.2	2821.6	1668.3	770.3	506.3	443.6	398.1	365.7	348.4	335.4	335.4
22.5°	3907.9	2938.5	1493.0	592.9	447.9	393.8	350.5	320.2	302.9	290.0	290.0
25°	4161.0	3016.4	1268.0	489.0	404.6	350.5	311.6	281.3	261.8	253.2	248.8
27.5°	4396.9	3066.1	1019.2	430.6	363.5	313.8	272.6	244.5	229.4	222.9	218.5
30°	4641.4	3079.1	779.0	391.7	328.9	277.0	238.0	216.4	203.4	194.7	194.7
32.5°	4879.4	3064.0	595.1	359.2	298.6	244.5	212.1	192.6	181.8	175.3	173.1
35°	5121.8	2994.7	482.5	331.1	268.3	214.2	188.3	173.1	166.6	158.0	158.0
37.5°	5385.8	2901.7	419.8	302.9	238.0	192.6	168.8	158.0	149.3	142.8	140.6
40°	5714.7	2793.5	385.2	279.1	209.9	173.1	151.5	140.6	134.2	127.7	125.5
42.5°	6104.2	2687.5	367.9	253.2	188.3	153.6	136.3	123.3	116.8	108.2	106.0
45°	6655.9	2663.7	348.4	225.0	168.8	138.5	119.0	106.0	97.4	90.9	88.7
47.5°	7543.1	2730.8	315.9	194.7	149.3	121.2	101.7	90.9	80.1	73.6	69.2
50°	8423.8	2713.4	283.5	168.8	132.0	103.9	86.6	75.7	64.9	58.4	56.3
52.5°	8904.2	2631.2	253.2	149.3	114.7	88.7	73.6	60.6	54.1	47.6	45.4
55°	9339.1	2598.8	222.9	129.8	97.4	77.9	60.6	49.8	45.4	38.9	36.8
57.5°	10191.6	2674.5	196.9	112.5	84.4	67.1	51.9	41.1	36.8	30.3	28.1
60°	11083.1	2683.1	168.8	97.4	73.6	56.3	41.1	32.5	28.1	21.6	19.5
62.5°	11548.3	2464.6	138.5	82.2	60.6	47.6	34.6	26.0	21.6	13.0	13.0
65°	11158.9	1992.9	116.8	67.1	47.6	36.8	26.0	19.5	13.0	6.5	2.2
67.5°	9875.7	1417.3	97.4	54.1	34.6	26.0	19.5	13.0	2.2	0.0	0.0
70°	7231.5	809.3	75.7	38.9	26.0	17.3	13.0	6.5	0.0	0.0	0.0
72.5°	4444.5	432.8	56.3	26.0	19.5	13.0	10.8	4.3	0.0	0.0	0.0
75°	1685.6	207.7	34.6	17.3	15.1	10.8	6.5	2.2	0.0	0.0	0.0
77.5°	456.6	101.7	19.5	13.0	10.8	6.5	4.3	0.0	0.0	0.0	0.0
80°	119.0	47.6	13.0	8.7	6.5	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	41.1	21.6	6.5	6.5	4.3	2.2	0.0	0.0	0.0	0.0	0.0
85°	17.3	8.7	4.3	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	2.2	2.2	2.2	2.2	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)