

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: P636842

Luminaire Tested: GWS-SA4B-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9925.1 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

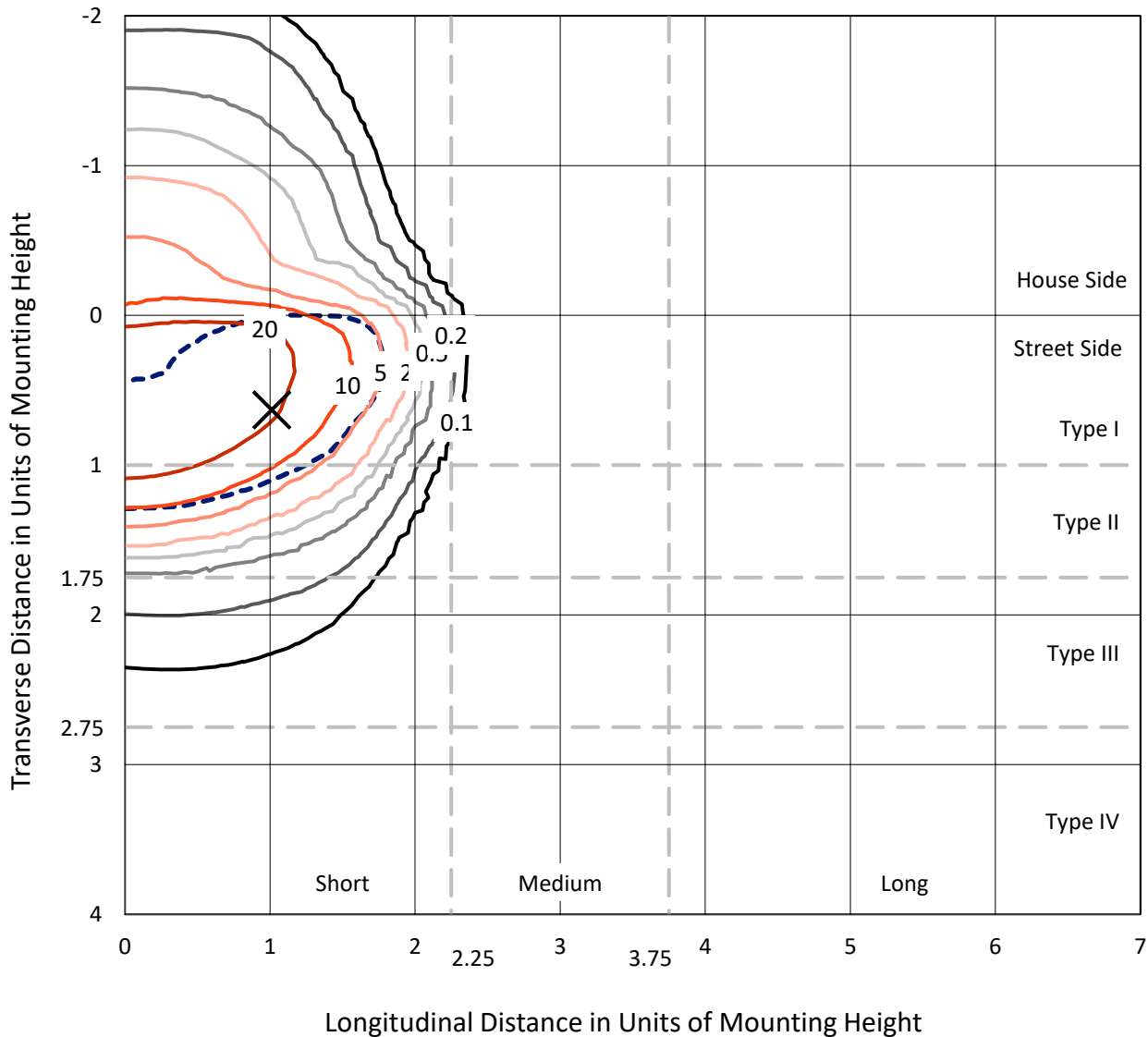
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

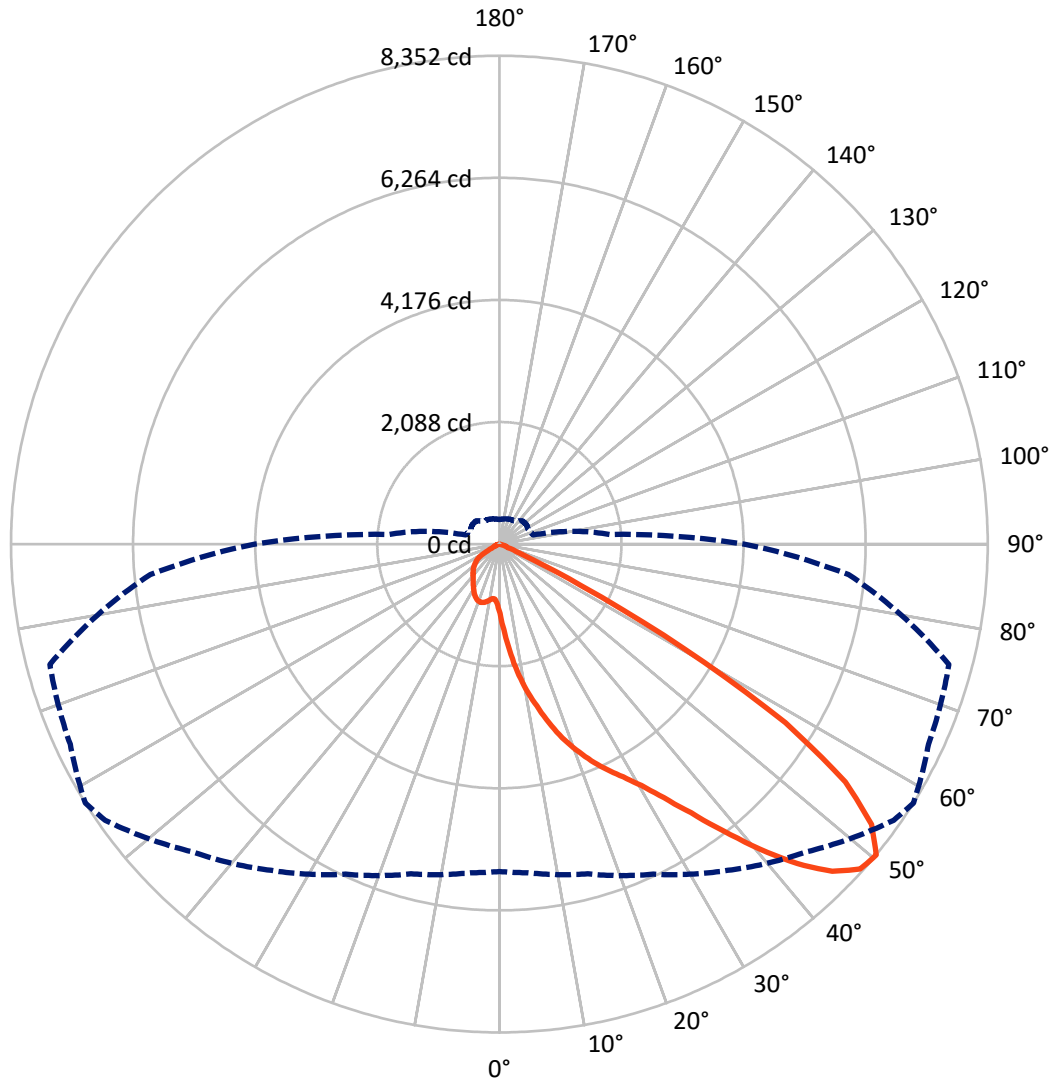
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 36.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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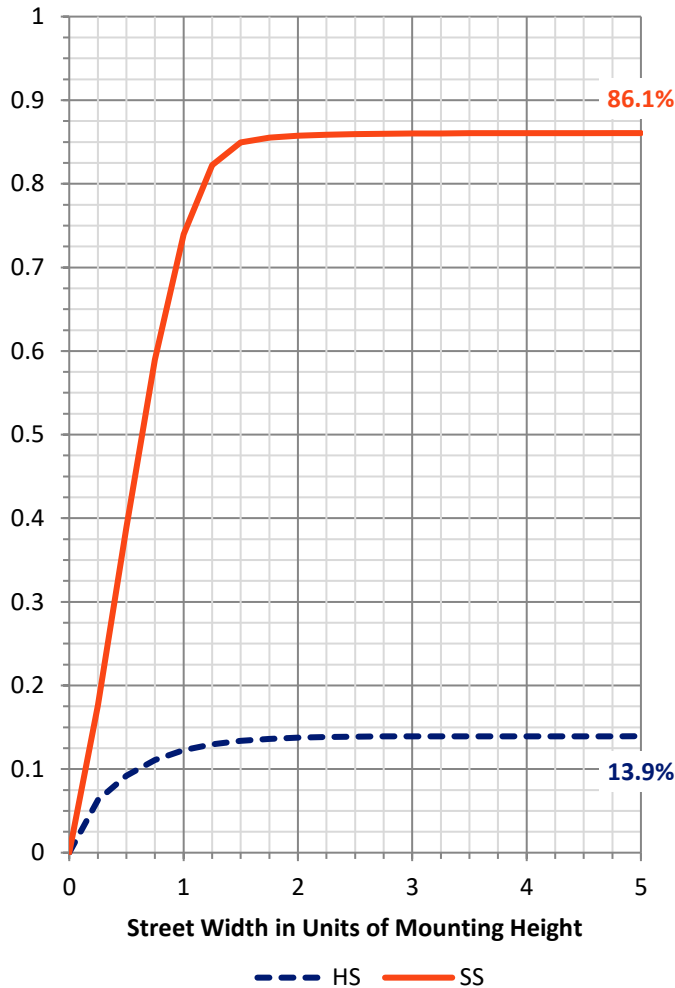
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1390.1	0.0	1390.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8535.0	0.0	8535.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	9925.1	0.0	9925.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	1.5
10°-20°	581.4	5.9
20°-30°	1176.5	11.9
30°-40°	2081.4	21.0
40°-50°	3034.2	30.6
50°-60°	2432.0	24.5
60°-70°	438.1	4.4
70°-80°	34.5	0.3
80°-90°	0.0	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°	9925.1	100.0
0°-180°	9925.1	100.0

Coefficient of Utilization



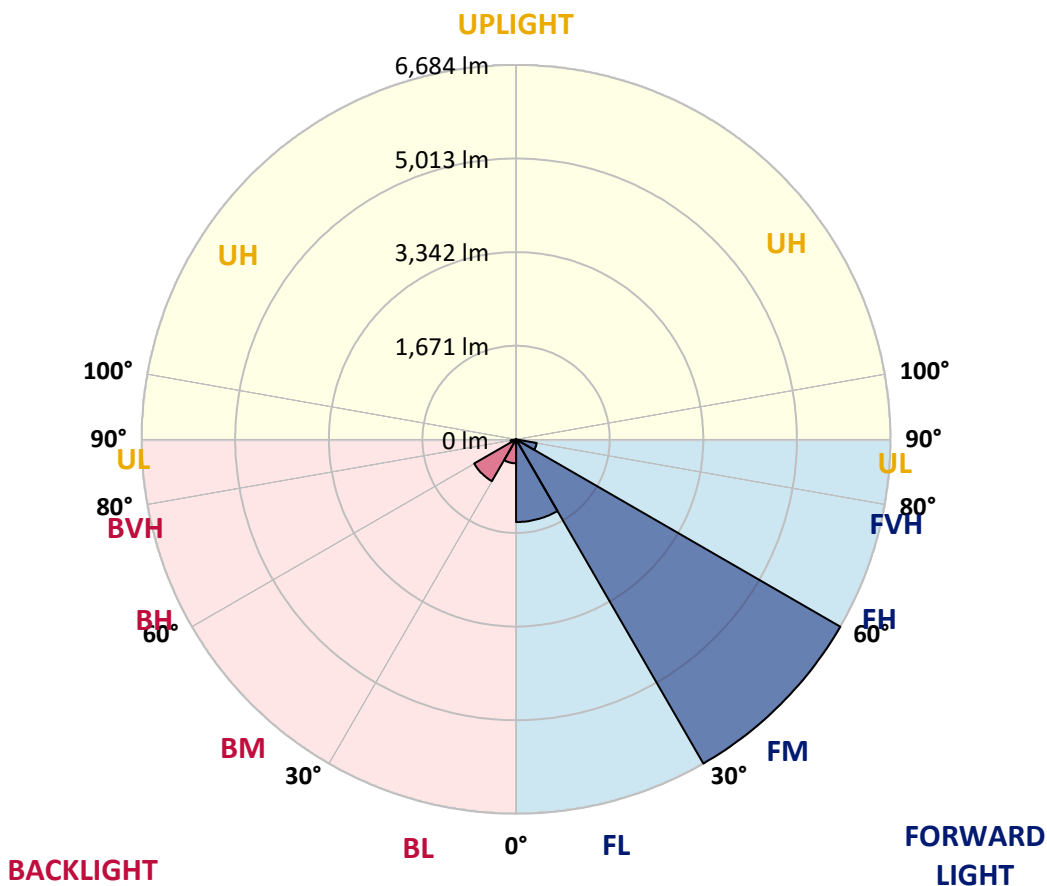
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.8	14.9			
FM (30°-60°)	6684.3	67.3			
FH (60°-80°)	373.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	428.0	4.3	B1/500		
BM (30°-60°)	863.3	8.7	B1/1000		
BH (60°-80°)	98.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.0	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1754.4	1726.8	1710.9	1698.2	1641.9	1552.8	1494.4	1463.6	1412.7	1326.7	1252.4
5°	2289.3	2269.2	2232.0	2206.6	2134.4	2008.1	1877.5	1825.5	1709.8	1515.6	1341.6
7.5°	2643.8	2629.0	2615.2	2581.2	2513.3	2398.7	2254.3	2200.2	2021.9	1745.9	1460.4
10°	2916.6	2904.9	2889.0	2888.0	2834.9	2731.9	2590.8	2534.5	2341.4	1996.4	1600.5
12.5°	3156.5	3146.9	3143.7	3173.5	3139.5	3063.1	2910.2	2840.2	2635.4	2252.2	1755.5
15°	3321.0	3318.9	3332.7	3391.0	3410.1	3375.1	3246.7	3171.3	2935.7	2509.0	1926.4
17.5°	3396.3	3402.7	3429.2	3530.1	3615.0	3644.7	3546.0	3482.3	3234.0	2769.1	2108.9
20°	3524.8	3522.6	3538.6	3634.1	3738.1	3844.2	3814.5	3760.4	3535.4	3044.0	2311.6
22.5°	3886.7	3855.9	3821.9	3836.8	3874.0	3998.1	4053.3	4025.7	3846.4	3326.3	2520.7
25°	4442.8	4411.0	4301.7	4195.5	4125.5	4181.7	4257.1	4270.9	4155.2	3616.0	2739.4
27.5°	5033.0	5004.3	4881.2	4722.0	4521.4	4423.7	4480.0	4507.6	4458.8	3961.0	2971.8
30°	5585.9	5547.7	5412.9	5215.5	4983.1	4833.4	4769.7	4788.8	4817.5	4369.6	3244.6
32.5°	6065.7	6037.0	5875.7	5667.6	5443.7	5287.7	5139.1	5170.9	5241.0	4869.5	3593.8
35°	6472.2	6457.3	6286.4	6079.5	5842.8	5763.2	5635.8	5642.2	5712.2	5473.4	4019.4
37.5°	6825.6	6800.1	6645.2	6453.1	6265.2	6252.5	6217.4	6220.6	6256.7	6177.1	4508.6
40°	7048.5	7025.1	6914.7	6795.9	6662.1	6664.3	6845.8	6859.6	6818.2	6868.0	5025.5
42.5°	7132.3	7115.3	7055.9	7057.0	7043.2	7105.8	7446.5	7472.0	7323.4	7410.4	5467.1
45°	6986.9	6979.5	6983.7	7136.6	7302.1	7495.3	7937.9	7982.5	7772.3	7770.2	5812.0
47.5°	6517.8	6502.9	6627.1	6887.1	7270.3	7646.0	8235.1	8304.1	8086.5	7976.1	6028.5
50°	5598.7	5641.1	5837.5	6228.0	6810.7	7439.1	8231.9	8351.8	8098.2	7958.1	5992.4
52.5°	4055.4	4047.0	4476.8	5013.9	5722.8	6776.8	7794.6	7969.7	7814.8	7780.8	5911.8
55°	2206.6	2284.0	2573.8	3284.9	4170.1	5523.3	6795.9	7178.0	7357.3	7716.1	6057.2
57.5°	810.9	844.8	1026.3	1529.4	2207.6	3434.6	5191.1	5767.4	6321.4	7535.6	6032.8
60°	326.9	333.3	405.4	562.5	927.6	1748.1	3114.0	3625.6	4147.8	5768.5	4629.6
62.5°	237.7	246.2	274.9	329.0	469.1	764.2	1342.6	1561.3	1706.7	2857.2	2280.9
65°	192.1	198.5	221.8	246.2	309.9	410.7	433.0	417.1	415.0	738.7	523.2
67.5°	159.2	165.6	182.6	199.5	222.9	204.8	148.6	156.0	127.4	126.3	103.0
70°	116.7	124.2	141.2	159.2	133.7	55.2	86.0	127.4	96.6	80.7	78.5
72.5°	88.1	93.4	109.3	104.0	39.3	21.2	57.3	92.3	74.3	59.4	58.4
75°	65.8	69.0	55.2	17.0	4.2	5.3	21.2	38.2	41.4	34.0	34.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.2	4.2	5.3	6.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5	1185.5
2.5°	1209.9	1165.4	1101.7	1048.6	1008.3	969.0	939.3	909.6	908.5	893.7	890.5
5°	1260.9	1180.2	1063.5	979.6	928.7	897.9	876.7	866.1	860.8	855.5	853.3
7.5°	1334.1	1218.4	1057.1	968.0	925.5	905.3	890.5	884.1	880.9	876.7	875.6
10°	1424.3	1273.6	1080.5	990.2	953.1	934.0	918.1	908.5	903.2	895.8	893.7
12.5°	1532.6	1341.6	1117.6	1027.4	988.1	962.7	941.4	927.6	920.2	910.6	908.5
15°	1649.3	1414.8	1159.0	1061.4	1014.7	981.8	955.2	934.0	920.2	908.5	905.3
17.5°	1770.3	1489.1	1196.1	1084.7	1027.4	988.1	949.9	921.3	904.3	889.4	885.2
20°	1906.2	1565.5	1220.6	1089.0	1023.1	971.1	926.6	890.5	873.5	853.3	849.1
22.5°	2048.4	1636.6	1231.2	1079.4	999.8	939.3	891.5	854.4	830.0	808.8	802.4
25°	2186.4	1700.3	1225.9	1052.9	964.8	894.7	845.9	807.7	781.2	759.9	754.6
27.5°	2332.9	1753.4	1206.8	1013.6	917.0	845.9	799.2	766.3	741.9	718.5	713.2
30°	2497.4	1802.2	1176.0	965.8	860.8	796.0	759.9	737.6	711.1	686.7	679.3
32.5°	2695.8	1845.7	1131.4	908.5	810.9	752.5	732.3	715.4	684.6	659.1	653.8
35°	2923.0	1881.8	1075.2	849.1	762.1	724.9	720.7	698.4	658.0	628.3	622.0
37.5°	3186.2	1916.8	1008.3	790.7	726.0	712.2	713.2	675.0	626.2	590.1	585.9
40°	3469.6	1951.8	934.0	739.8	693.1	704.7	695.2	641.1	561.5	526.4	522.2
42.5°	3764.6	1990.0	858.6	692.0	665.5	676.1	662.3	573.1	515.8	497.8	495.7
45°	4031.0	2035.7	776.9	644.2	637.9	634.7	611.3	519.0	494.6	481.9	480.8
47.5°	4223.1	2028.3	689.9	598.6	608.2	597.5	526.4	493.5	473.4	456.4	452.1
50°	4188.1	1898.8	599.7	547.7	569.9	560.4	473.4	463.8	445.8	427.7	421.4
52.5°	4099.0	1722.6	521.1	493.5	528.6	506.3	437.3	427.7	411.8	388.5	381.0
55°	4146.7	1557.0	459.6	450.0	486.1	419.2	396.9	382.1	365.1	339.6	336.5
57.5°	3992.8	1270.4	369.4	375.7	429.8	357.7	348.1	324.8	296.1	279.1	277.0
60°	2763.8	682.5	231.4	238.8	311.0	300.4	312.0	290.8	255.8	239.9	236.7
62.5°	1269.4	273.8	126.3	121.0	163.4	203.8	267.5	265.3	221.8	196.4	194.2
65°	307.8	125.2	90.2	84.9	92.3	122.1	174.1	209.1	179.4	149.7	146.5
67.5°	99.8	101.9	82.8	77.5	81.7	91.3	104.0	115.7	114.6	105.1	103.0
70°	79.6	92.3	76.4	70.0	70.0	73.2	70.0	56.3	48.8	53.1	55.2
72.5°	59.4	70.0	60.5	54.1	52.0	50.9	43.5	31.8	22.3	20.2	19.1
75°	35.0	39.3	37.1	31.8	29.7	26.5	21.2	13.8	7.4	5.3	3.2
77.5°	6.4	7.4	8.5	6.4	5.3	4.2	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)