

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: P638050

Luminaire Tested: GWS-SA4E-722-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16885.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

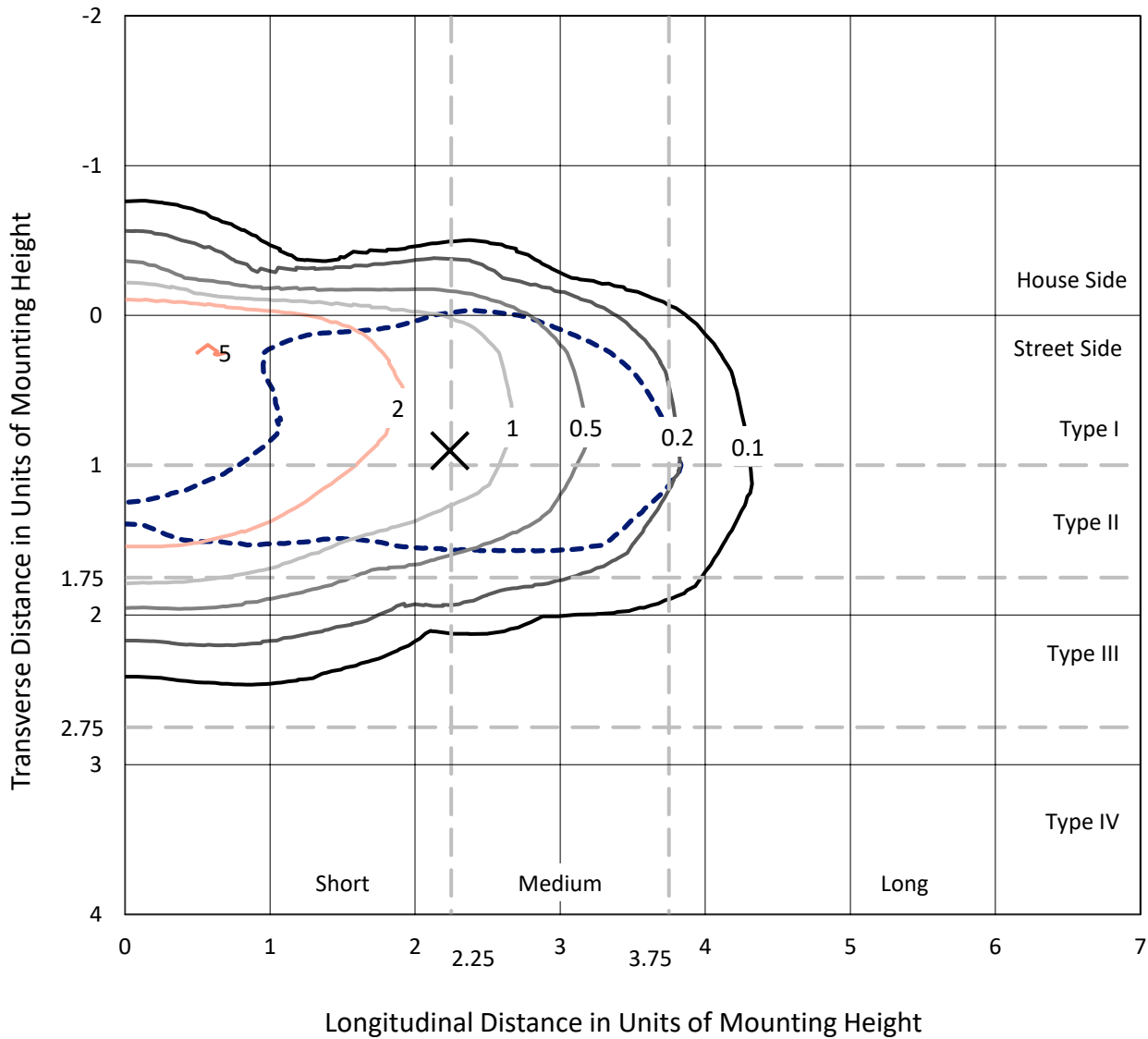
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

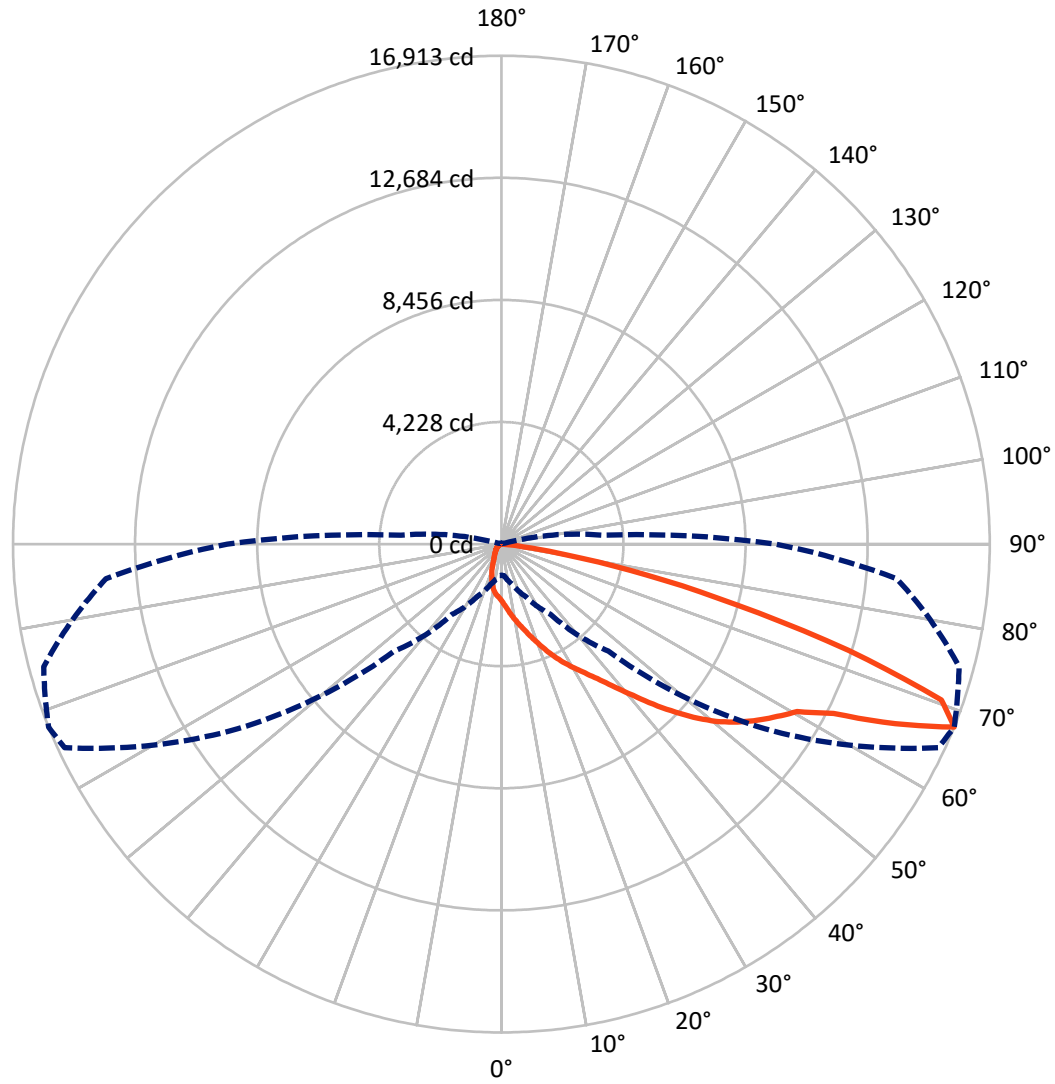
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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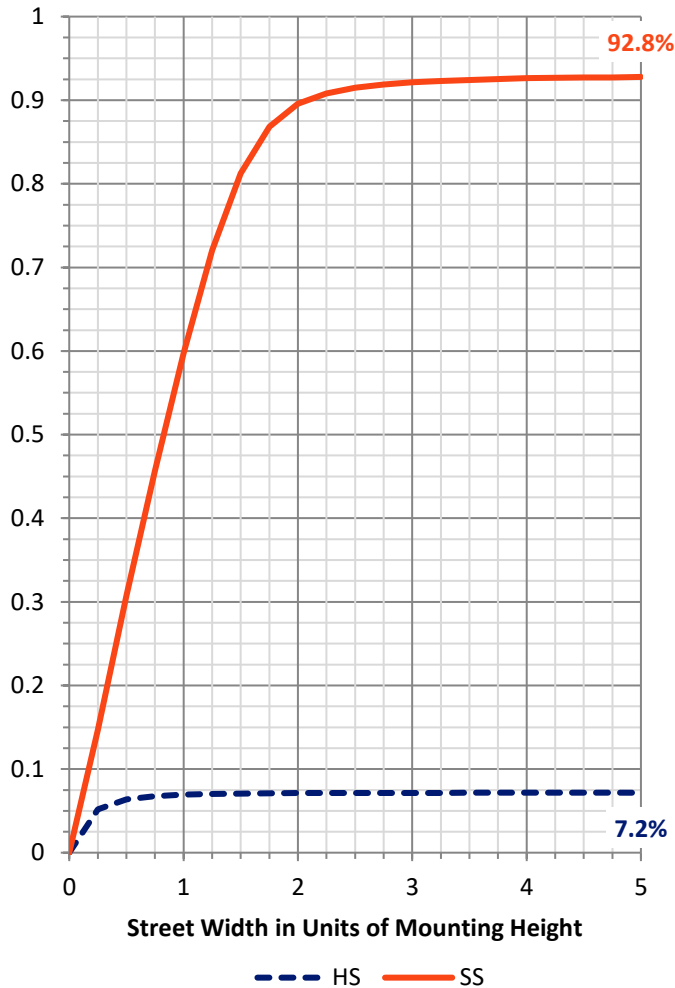
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1219.3	0.0	1219.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15665.8	0.0	15665.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	16885.1	0.0	16885.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.1
10°-20°	550.4	3.3
20°-30°	945.8	5.6
30°-40°	1644.4	9.7
40°-50°	2869.2	17.0
50°-60°	4327.5	25.6
60°-70°	4339.4	25.7
70°-80°	1914.5	11.3
80°-90°	102.3	0.6
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°	16885.1	100.0
0°-180°	16885.1	100.0

Coefficient of Utilization



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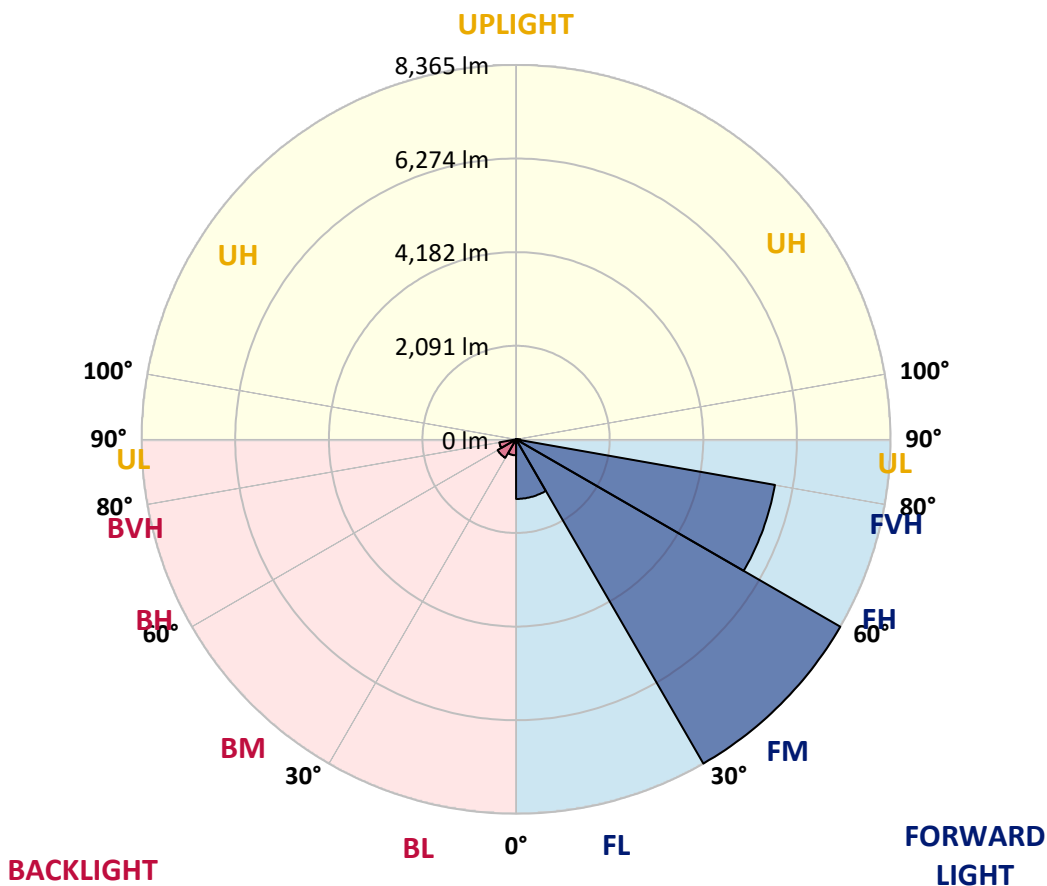
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.1	7.9			
FM (30°-60°)	8364.8	49.5			
FH (60°-80°)	5873.4	34.8			G3/7500
FVH (80°-90°)	96.5	0.6			G1/100
BL (0°-30°)	356.7	2.1	B1/500		
BM (30°-60°)	476.3	2.8	B1/1000		
BH (60°-80°)	380.5	2.3	B1/500		G1/500
BVH (80°-90°)	5.8	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°	68°	75°	85°
0°	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	2288.2	2302.7	2288.2	2291.4	2249.4	2230.0	2188.0	2129.8	2115.3	2078.1	2021.6
5°	2567.7	2580.7	2566.1	2562.9	2514.4	2478.9	2409.4	2309.2	2280.1	2207.4	2095.9
7.5°	2719.6	2727.7	2732.6	2740.7	2722.9	2693.8	2630.8	2506.3	2475.6	2357.7	2200.9
10°	2735.8	2742.3	2766.5	2815.0	2850.5	2868.3	2832.8	2718.0	2669.6	2554.8	2330.2
12.5°	2690.6	2700.3	2739.0	2819.8	2918.4	3008.9	3031.5	2931.3	2887.7	2740.7	2482.1
15°	2630.8	2638.8	2692.2	2802.1	2950.7	3117.2	3210.9	3167.3	3118.8	2965.3	2650.2
17.5°	2538.7	2550.0	2624.3	2773.0	2965.3	3202.8	3404.8	3419.4	3385.4	3219.0	2836.0
20°	2486.9	2495.0	2561.3	2714.8	2955.6	3265.8	3585.8	3723.2	3686.0	3511.5	3049.3
22.5°	2530.6	2537.0	2580.7	2700.3	2923.3	3301.4	3753.9	4026.9	4005.9	3825.0	3273.9
25°	2760.0	2781.1	2755.2	2776.2	2937.8	3320.8	3889.6	4330.7	4335.6	4153.0	3506.6
27.5°	3225.4	3198.0	3136.6	3031.5	3050.9	3372.5	4005.9	4616.8	4658.8	4473.0	3713.5
30°	3698.9	3682.8	3645.6	3482.4	3346.6	3487.2	4104.5	4909.3	4975.5	4788.1	3897.7
32.5°	4230.6	4246.7	4180.5	3984.9	3753.9	3719.9	4206.3	5187.2	5311.6	5145.2	4114.2
35°	4865.6	4870.5	4739.6	4523.0	4261.3	4104.5	4388.9	5494.2	5723.7	5600.9	4403.5
37.5°	5484.5	5513.6	5442.5	5101.6	4868.9	4582.8	4691.1	5888.5	6211.7	6163.2	4767.1
40°	6032.3	6077.6	6055.0	5725.3	5419.9	5179.1	5159.7	6350.7	6801.5	6856.5	5247.0
42.5°	6468.7	6497.7	6515.5	6281.2	6011.3	5875.6	5738.2	6887.2	7498.0	7722.6	5835.2
45°	6929.2	6938.9	6976.1	6817.7	6581.8	6593.1	6421.8	7538.4	8231.7	8682.5	6510.7
47.5°	7515.8	7548.1	7530.3	7363.9	7150.6	7278.2	7128.0	8209.0	8955.6	9707.0	7202.3
50°	8230.0	8264.0	8247.8	8053.9	7816.4	7869.7	7776.0	8860.3	9653.7	10673.4	7777.6
52.5°	8598.5	8625.9	8826.3	8913.6	8789.2	8449.8	8328.6	9576.1	10243.5	11468.4	8306.0
55°	8420.7	8440.1	8876.4	9244.9	9700.6	9361.2	8884.5	10128.8	10763.8	12088.9	8698.7
57.5°	7683.8	7788.9	8381.9	9005.7	9964.0	10261.3	9786.2	10729.9	11264.8	12520.4	9084.9
60°	6172.9	6168.1	7018.1	8137.9	9450.1	10508.5	11059.6	11542.7	11767.4	12851.7	9602.0
62.5°	3411.3	3442.0	4573.1	6048.5	8021.6	9868.6	12014.6	12947.0	12913.1	13430.2	10411.6
65°	1698.4	1759.8	2373.8	3464.6	5337.5	8155.7	12179.4	15089.7	14992.8	14792.4	12084.1
67.5°	1077.8	1102.1	1441.4	2013.5	2966.9	5242.1	11153.3	16687.9	16912.5	16408.4	13743.7
70°	698.1	738.5	1001.9	1376.8	1790.5	2701.9	8170.2	15652.1	16167.6	16230.6	12709.5
72.5°	379.7	408.8	639.9	982.5	1292.8	1350.9	4589.3	11746.3	12575.3	13767.9	9942.9
75°	216.5	237.5	350.7	667.4	948.6	822.5	2034.5	7863.2	8391.6	9839.5	7124.7
77.5°	130.9	148.7	197.1	324.8	594.7	549.4	769.2	4786.4	5122.6	5870.7	3739.3
80°	59.8	71.1	124.4	179.4	324.8	260.2	294.1	2231.6	2304.3	2409.4	1237.8
82.5°	27.5	32.3	56.6	106.7	184.2	150.3	113.1	515.5	725.6	686.8	315.1
85°	3.2	3.2	21.0	43.6	51.7	38.8	46.9	116.3	147.1	206.8	90.5
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	9.7	14.5	21.0	33.9	22.6
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°	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	1995.7	1950.5	1910.1	1850.3	1809.9	1764.6	1733.9	1696.7	1682.2	1670.9	1654.7
5°	2040.9	1968.2	1869.7	1759.8	1669.3	1583.6	1504.5	1452.7	1407.5	1401.0	1378.4
7.5°	2115.3	2007.0	1840.6	1661.2	1507.7	1365.5	1254.0	1163.5	1118.2	1103.7	1077.8
10°	2213.9	2065.2	1796.9	1522.2	1300.8	1131.2	1005.1	903.3	832.2	806.4	787.0
12.5°	2323.7	2118.5	1727.5	1350.9	1098.8	904.9	745.0	636.7	591.4	575.3	560.7
15°	2449.8	2168.6	1617.6	1179.6	901.7	665.8	552.7	505.8	486.4	481.6	476.7
17.5°	2571.0	2200.9	1486.7	1001.9	693.2	517.1	463.8	446.0	441.2	436.3	433.1
20°	2708.3	2223.5	1333.2	833.8	538.1	437.9	412.1	399.1	389.4	379.7	378.1
22.5°	2848.9	2223.5	1166.7	669.0	450.9	392.7	363.6	339.3	321.6	311.9	308.6
25°	2983.0	2192.8	1001.9	534.9	397.5	349.0	311.9	284.4	260.2	248.9	245.6
27.5°	3078.4	2113.7	858.1	452.5	360.4	310.3	265.0	234.3	214.9	203.6	202.0
30°	3138.2	1995.7	725.6	404.0	328.0	269.9	224.6	198.8	184.2	176.1	172.9
32.5°	3183.4	1850.3	607.6	370.1	297.3	234.3	195.5	174.5	161.6	155.1	153.5
35°	3273.9	1712.9	520.3	339.3	265.0	205.2	171.3	155.1	145.4	137.4	135.7
37.5°	3400.0	1598.2	450.9	311.9	234.3	182.6	155.1	140.6	132.5	124.4	122.8
40°	3585.8	1525.5	399.1	284.4	206.8	164.8	142.2	129.3	118.0	109.9	108.3
42.5°	3871.8	1491.5	365.2	256.9	182.6	148.7	130.9	114.7	103.4	95.3	93.7
45°	4212.8	1509.3	336.1	229.5	166.4	137.4	116.3	100.2	88.9	80.8	79.2
47.5°	4578.0	1572.3	311.9	203.6	150.3	126.0	103.4	85.6	75.9	67.9	66.3
50°	4959.4	1675.7	290.9	179.4	137.4	113.1	88.9	74.3	64.6	58.2	56.6
52.5°	5290.6	1816.3	269.9	161.6	126.0	100.2	77.6	64.6	54.9	48.5	46.9
55°	5607.3	1948.8	253.7	145.4	113.1	87.3	67.9	54.9	46.9	40.4	38.8
57.5°	5951.5	2089.4	234.3	130.9	101.8	77.6	59.8	46.9	40.4	33.9	32.3
60°	6452.5	2297.9	205.2	119.6	88.9	67.9	51.7	42.0	35.6	27.5	25.9
62.5°	7174.8	2677.6	172.9	103.4	75.9	58.2	43.6	35.6	29.1	22.6	19.4
65°	8525.8	3324.0	142.2	85.6	61.4	48.5	37.2	29.1	22.6	16.2	14.5
67.5°	9498.6	3492.1	114.7	69.5	50.1	37.2	30.7	22.6	16.2	11.3	9.7
70°	8304.4	2508.0	88.9	56.6	42.0	29.1	24.2	17.8	11.3	8.1	6.5
72.5°	6257.0	1638.6	66.3	43.6	32.3	24.2	17.8	14.5	9.7	6.5	4.8
75°	4409.9	946.9	48.5	32.3	22.6	17.8	14.5	11.3	8.1	4.8	4.8
77.5°	2260.7	391.1	33.9	22.6	16.2	11.3	9.7	6.5	6.5	4.8	3.2
80°	686.8	129.3	19.4	14.5	11.3	8.1	4.8	4.8	4.8	3.2	1.6
82.5°	156.7	42.0	11.3	11.3	8.1	6.5	4.8	1.6	1.6	0.0	0.0
85°	40.4	12.9	9.7	8.1	8.1	6.5	3.2	1.6	0.0	0.0	0.0
87.5°	14.5	8.1	8.1	8.1	6.5	4.8	3.2	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)