

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: P638223

Luminaire Tested: GWS-SA4E-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22158.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

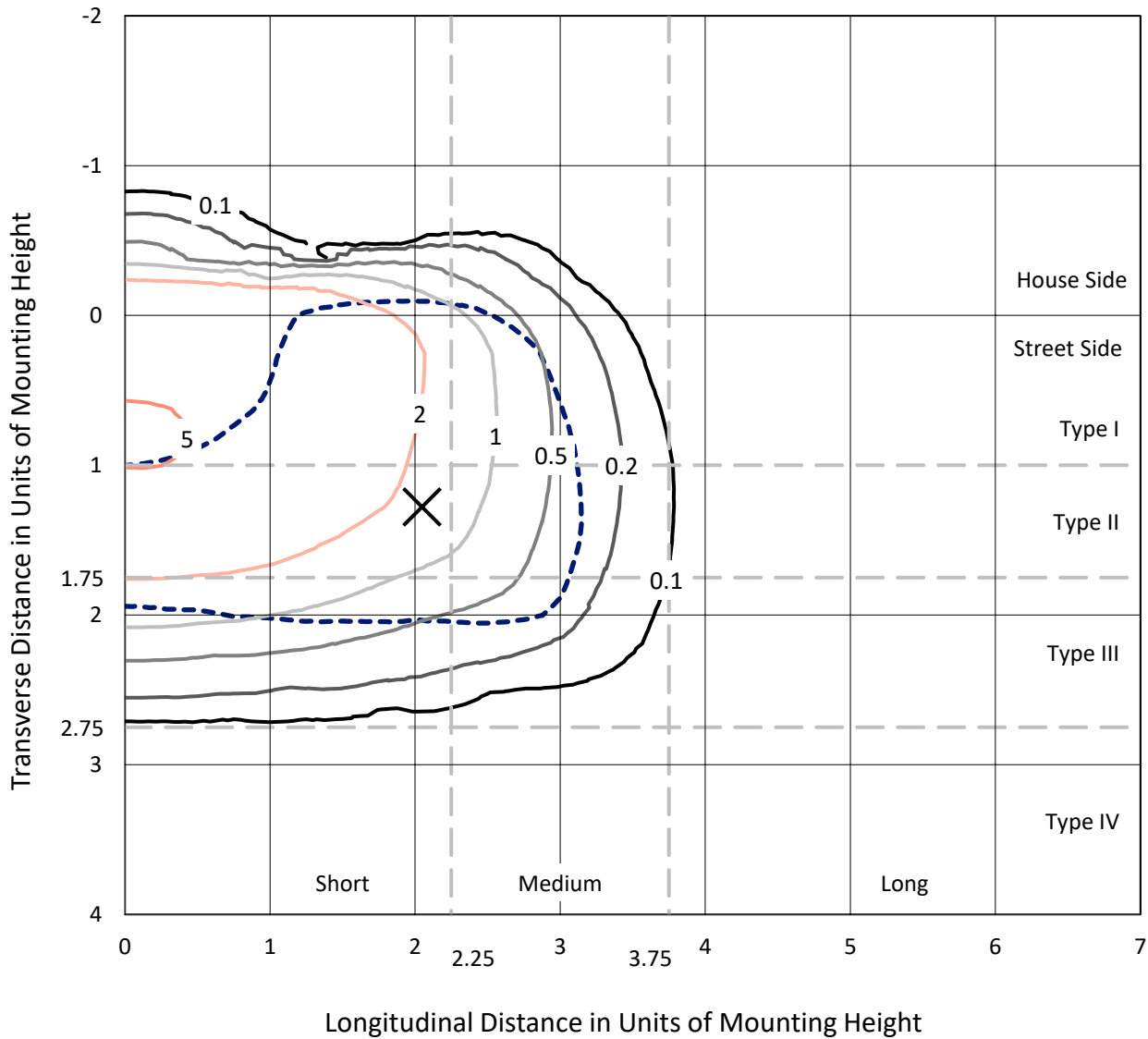
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

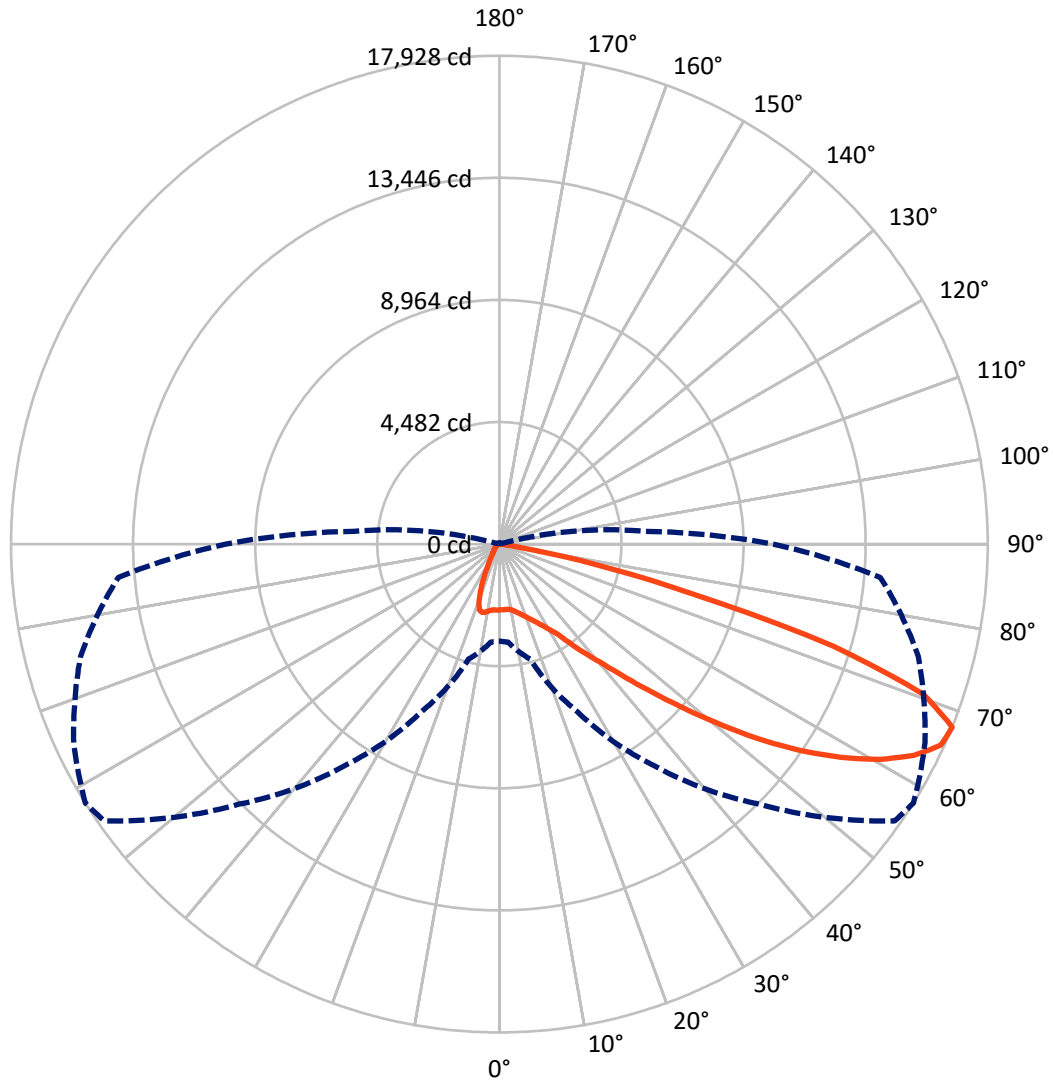
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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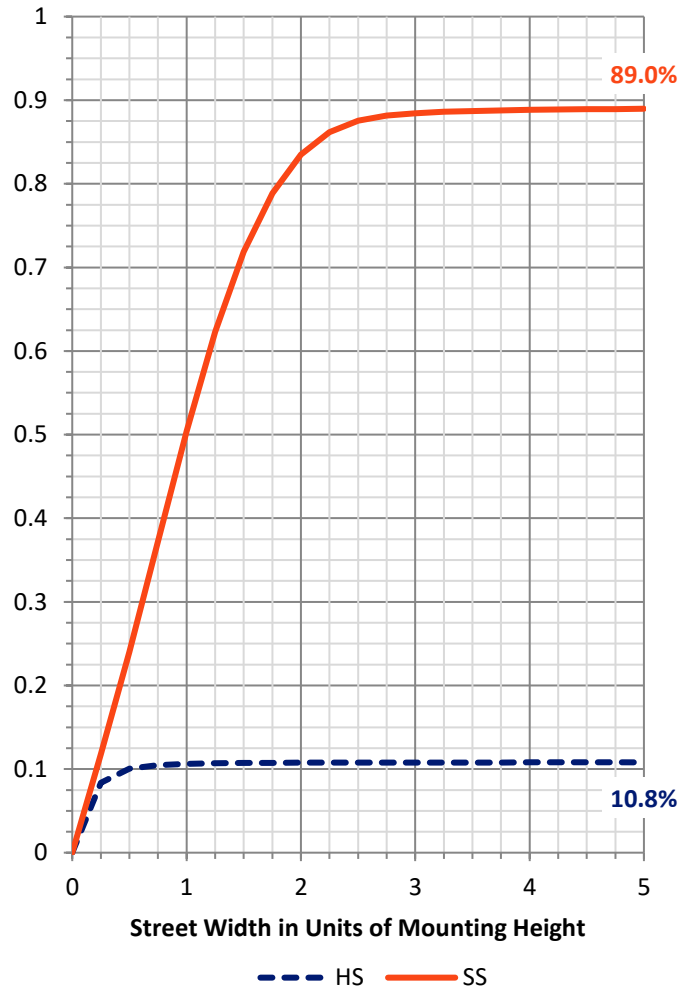
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.5	0.0	2417.5
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	19741.4	0.0	19741.4
	% Fixture	89.1	0.0	89.1
Total	Lumens	22158.9	0.0	22158.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.8	1.0
10°-20°	636.9	2.9
20°-30°	1111.7	5.0
30°-40°	1985.3	9.0
40°-50°	3628.8	16.4
50°-60°	6035.0	27.2
60°-70°	6555.0	29.6
70°-80°	1924.6	8.7
80°-90°	54.8	0.2
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°	22158.9	100.0
0°-180°	22158.9	100.0

Coefficient of Utilization



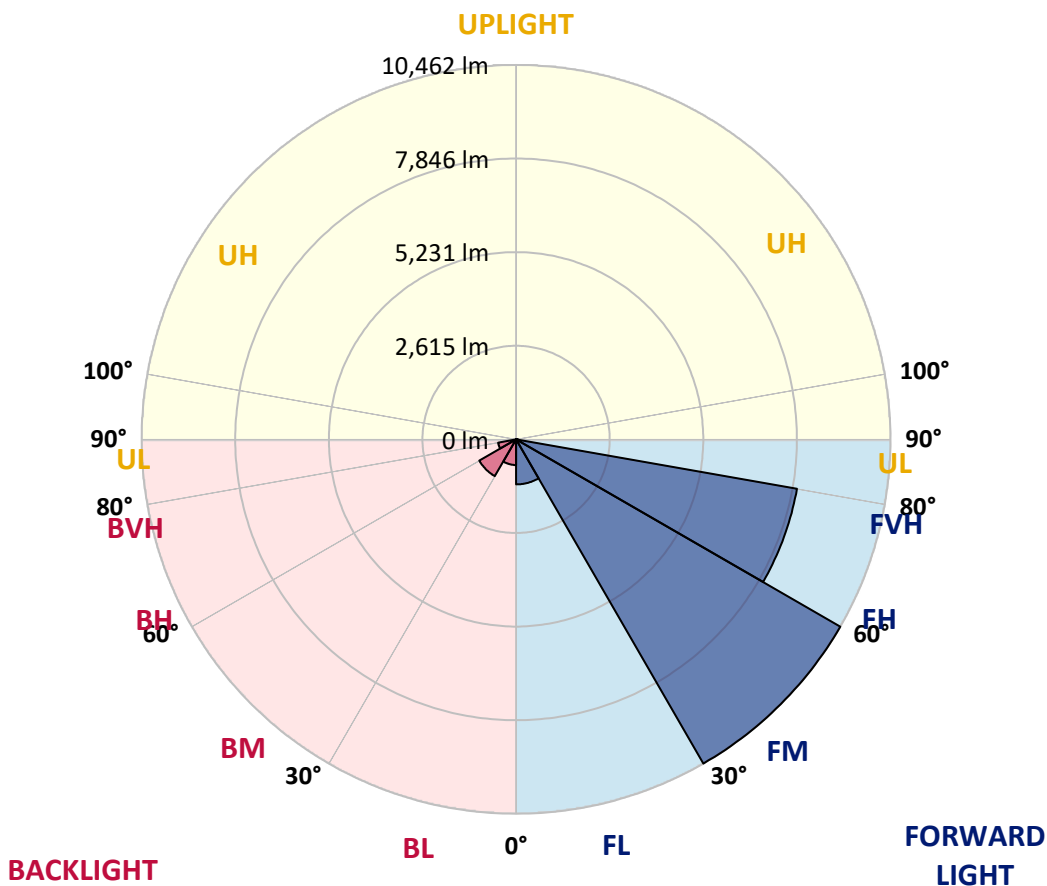
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.3	5.7			
FM (30°-60°)	10461.7	47.2			
FH (60°-80°)	7969.4	36.0			G4/12000
FVH (80°-90°)	52.1	0.2			G1/100
BL (0°-30°)	717.1	3.2	B2/1000		
BM (30°-60°)	1187.4	5.4	B2/2500		
BH (60°-80°)	510.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.7	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7
2.5°	2369.2	2364.9	2364.9	2382.2	2384.4	2393.0	2412.5	2414.7	2425.5	2421.1	2406.0
5°	2245.9	2248.1	2261.0	2291.3	2317.3	2349.7	2397.3	2408.2	2432.0	2444.9	2436.3
7.5°	2131.2	2133.4	2152.9	2200.5	2250.2	2315.1	2393.0	2414.7	2462.3	2496.9	2499.0
10°	2087.9	2085.8	2105.3	2159.3	2224.3	2315.1	2427.6	2455.8	2527.2	2587.8	2598.6
12.5°	2100.9	2098.8	2118.2	2168.0	2239.4	2354.1	2488.2	2527.2	2618.0	2711.1	2730.6
15°	2152.9	2150.7	2163.7	2204.8	2282.7	2401.7	2566.1	2624.5	2739.2	2851.7	2882.0
17.5°	2308.6	2297.8	2284.8	2289.2	2334.6	2457.9	2665.6	2737.0	2879.8	3014.0	3040.0
20°	2585.6	2557.5	2522.8	2477.4	2455.8	2540.2	2780.3	2862.5	3035.6	3189.3	3193.6
22.5°	3003.2	2992.4	2912.3	2780.3	2687.3	2689.4	2914.5	3009.7	3221.7	3390.5	3366.7
25°	3585.2	3578.7	3455.4	3239.0	2996.7	2914.5	3085.4	3182.8	3442.4	3622.0	3546.3
27.5°	4307.9	4262.4	4117.5	3825.4	3464.0	3206.6	3301.8	3388.3	3676.1	3844.8	3702.0
30°	4937.5	4939.7	4803.4	4498.3	4091.5	3645.8	3565.7	3641.5	3890.3	4067.7	3894.6
32.5°	5543.3	5562.8	5413.5	5138.7	4693.0	4219.2	3944.4	3957.4	4165.1	4357.6	4147.8
35°	6105.9	6121.0	6017.2	5783.5	5368.1	4818.5	4472.3	4465.8	4578.3	4775.2	4500.4
37.5°	6735.5	6750.7	6649.0	6439.1	6049.6	5504.4	5071.6	5063.0	5108.4	5268.5	4954.8
40°	7406.2	7434.4	7321.9	7144.4	6772.3	6311.4	5768.3	5690.5	5645.0	5833.3	5543.3
42.5°	8085.6	8128.9	8090.0	7912.5	7594.5	7213.7	6672.8	6551.6	6454.2	6690.1	6382.8
45°	8929.5	8981.4	8964.1	8827.8	8581.1	8271.7	7761.1	7620.5	7575.0	7793.5	7427.9
47.5°	9740.9	9797.1	9859.9	9829.6	9654.3	9511.5	8944.6	8864.6	8851.6	9085.3	8518.4
50°	10344.5	10396.4	10636.6	10809.7	10928.7	10898.4	10407.3	10288.3	10268.8	10418.1	9669.5
52.5°	10777.3	10827.0	11158.1	11699.0	12136.0	12374.0	11878.6	11852.6	11746.6	11694.6	10747.0
55°	11112.6	11181.9	11530.2	12348.1	13228.7	13756.6	13447.2	13354.2	13081.6	12783.0	11746.6
57.5°	11179.7	11207.8	11699.0	12802.4	14076.9	14931.5	14931.5	14769.2	14243.5	13830.2	12902.0
60°	10578.2	10664.7	11329.0	12765.7	14440.3	15699.6	16162.6	16050.1	15340.4	14832.0	14014.1
62.5°	9243.2	9340.6	10149.8	11885.1	14076.9	15857.6	17095.2	17077.9	16277.3	15660.7	14935.8
65°	7088.2	7159.6	7864.9	9942.1	12540.6	15249.6	17761.6	17809.2	17017.3	16208.1	15253.9
67.5°	3561.4	3611.2	4372.8	6791.8	9939.9	13499.2	17716.1	17928.2	17242.3	15918.1	14040.1
70°	1244.1	1293.9	1653.0	2914.5	6049.6	10307.7	16184.3	16530.5	15920.3	13587.9	10357.5
72.5°	426.2	450.0	685.9	1081.8	2354.1	6110.2	12307.0	12828.4	11735.8	9122.0	5952.3
75°	242.3	257.5	367.8	586.4	986.6	2010.1	6982.2	7302.4	6841.5	4972.1	2449.3
77.5°	164.4	177.4	229.3	333.2	545.2	646.9	2847.4	3585.2	3126.5	1622.8	625.3
80°	97.4	106.0	140.6	196.9	279.1	251.0	610.2	811.4	1045.1	484.7	188.2
82.5°	45.4	51.9	90.9	129.8	140.6	106.0	179.6	218.5	294.3	238.0	77.9
85°	0.0	0.0	30.3	54.1	51.9	30.3	49.8	54.1	80.1	119.0	30.3
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.3	6.5	13.0	23.8	13.0
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°	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7	2414.7
2.5°	2423.3	2408.2	2425.5	2416.8	2425.5	2423.3	2406.0	2395.2	2395.2	2375.7	2369.2
5°	2453.6	2438.5	2442.8	2423.3	2419.0	2408.2	2386.5	2377.9	2377.9	2358.4	2351.9
7.5°	2520.7	2496.9	2492.6	2453.6	2436.3	2406.0	2367.1	2351.9	2349.7	2330.3	2323.8
10°	2626.7	2598.6	2579.1	2529.3	2479.6	2419.0	2336.8	2267.5	2228.6	2176.7	2172.3
12.5°	2756.5	2721.9	2691.6	2615.9	2533.7	2397.3	2155.0	1901.9	1746.1	1622.8	1631.4
15°	2901.5	2869.0	2821.4	2706.8	2538.0	2183.1	1676.8	1287.4	1097.0	995.3	991.0
17.5°	3059.4	3011.8	2933.9	2778.2	2401.7	1668.2	1090.5	770.3	670.7	636.1	627.5
20°	3206.6	3148.1	3050.8	2793.3	2007.9	1129.4	681.6	597.2	579.9	569.0	569.0
22.5°	3362.3	3288.8	3143.8	2676.5	1492.9	722.7	579.9	560.4	547.4	532.3	530.1
25°	3520.3	3425.1	3228.2	2371.4	978.0	569.0	543.1	521.4	497.6	473.8	467.4
27.5°	3654.4	3531.1	3293.1	1917.0	627.5	512.8	495.5	458.7	426.2	400.3	396.0
30°	3814.6	3656.6	3321.2	1402.1	493.3	452.2	426.2	387.3	348.4	322.4	313.7
32.5°	4028.8	3855.7	3278.0	913.1	437.1	398.1	357.0	311.6	272.6	244.5	240.2
35°	4362.0	4156.4	3078.9	582.0	396.0	344.0	294.3	246.7	214.2	192.6	188.2
37.5°	4768.7	4578.3	2752.2	437.1	354.8	298.6	240.2	194.7	170.9	155.8	151.5
40°	5372.4	5106.3	2347.6	383.0	313.7	253.1	196.9	160.1	142.8	129.8	125.5
42.5°	6155.6	5729.4	1882.4	348.4	274.8	212.0	160.1	132.0	116.8	108.2	106.0
45°	7070.9	6337.4	1391.2	313.7	238.0	175.3	132.0	108.2	97.4	90.9	88.7
47.5°	8007.8	6869.7	960.7	277.0	203.4	145.0	110.3	93.0	84.4	75.7	73.6
50°	9007.4	7319.7	655.6	240.2	173.1	119.0	95.2	84.4	73.6	67.1	64.9
52.5°	9740.9	7486.3	456.5	207.7	147.1	101.7	84.4	75.7	67.1	58.4	56.3
55°	10418.1	7482.0	346.2	175.3	125.5	88.7	75.7	67.1	58.4	51.9	49.8
57.5°	11093.1	7423.6	272.6	149.3	108.2	80.1	67.1	58.4	54.1	45.4	43.3
60°	11530.2	7202.9	212.0	125.5	93.0	69.2	58.4	51.9	45.4	38.9	36.8
62.5°	11761.7	6895.6	162.3	99.5	75.7	60.6	51.9	45.4	38.9	32.5	30.3
65°	11448.0	6350.4	127.7	77.9	58.4	51.9	43.3	36.8	30.3	23.8	21.6
67.5°	10056.7	5355.1	99.5	62.7	45.4	38.9	36.8	30.3	21.6	17.3	15.1
70°	7107.7	3667.4	77.9	47.6	34.6	30.3	28.1	23.8	17.3	13.0	10.8
72.5°	3901.1	1849.9	56.3	34.6	26.0	23.8	21.6	19.5	15.1	10.8	10.8
75°	1501.6	508.5	41.1	23.8	17.3	17.3	15.1	15.1	13.0	8.7	8.7
77.5°	391.6	151.5	26.0	15.1	10.8	10.8	10.8	8.7	8.7	6.5	6.5
80°	125.5	49.8	15.1	10.8	8.7	6.5	6.5	4.3	6.5	4.3	4.3
82.5°	41.1	17.3	8.7	8.7	6.5	4.3	4.3	2.2	2.2	0.0	0.0
85°	15.1	8.7	6.5	4.3	4.3	4.3	2.2	0.0	0.0	0.0	0.0
87.5°	8.7	4.3	4.3	4.3	4.3	2.2	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)