

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: P632072

Luminaire Tested: GWS-SA2B-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5435.3 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

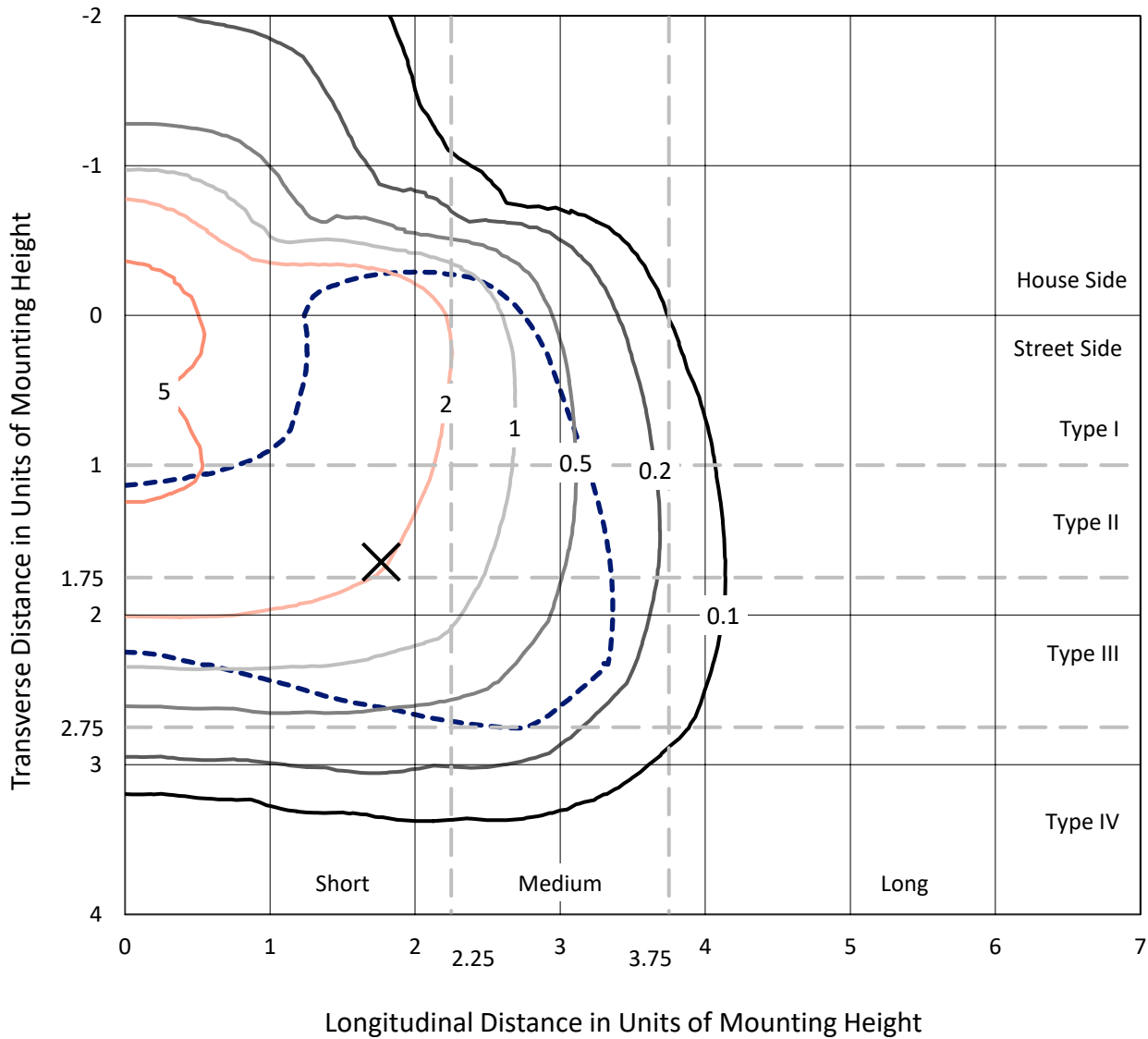
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

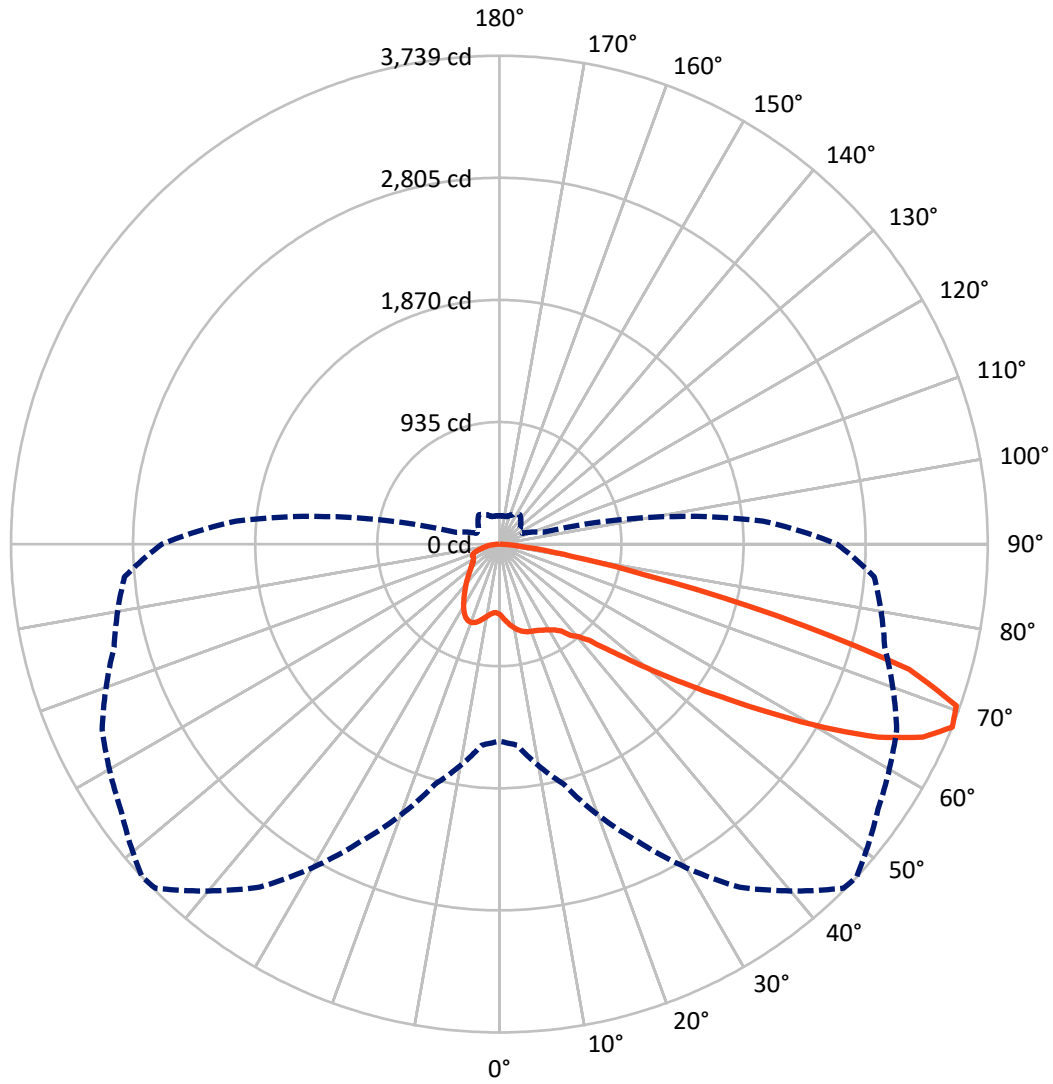
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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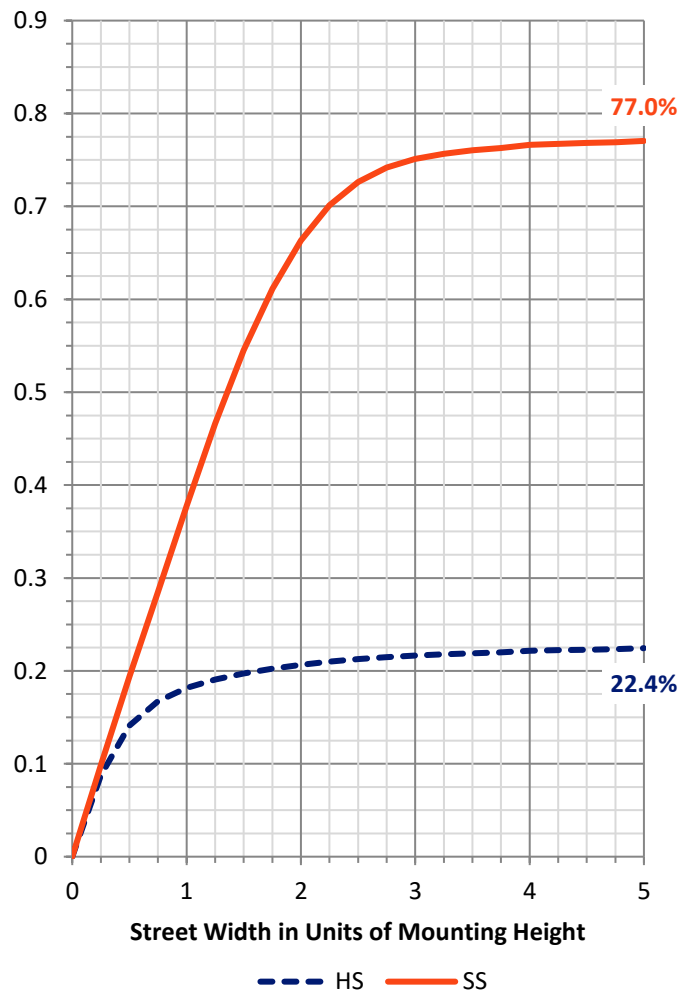
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1238.8	0.0	1238.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	4196.6	0.0	4196.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	5435.3	0.0	5435.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	1.0
10°-20°	183.5	3.4
20°-30°	311.8	5.7
30°-40°	456.8	8.4
40°-50°	696.0	12.8
50°-60°	1245.3	22.9
60°-70°	1661.7	30.6
70°-80°	751.5	13.8
80°-90°	73.6	1.4
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°	5435.3	100.0
0°-180°	5435.3	100.0

Coefficient of Utilization



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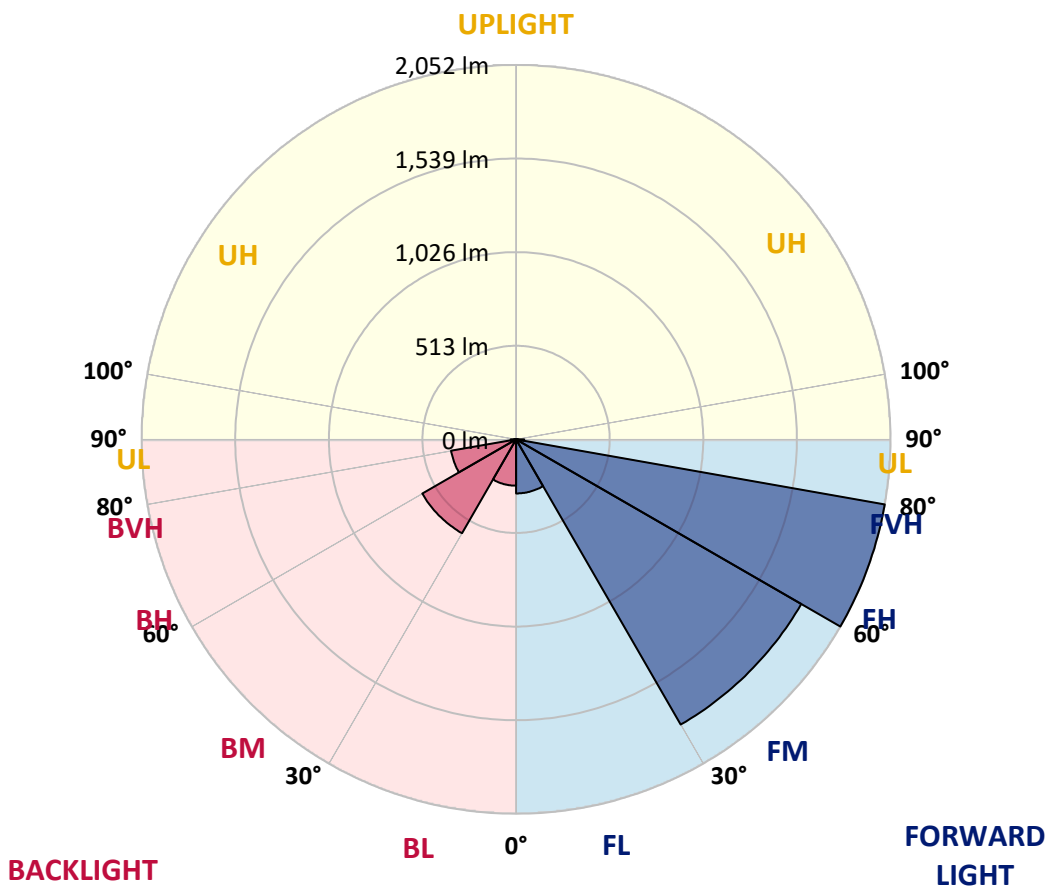
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.4	5.5			
FM (30°-60°)	1804.6	33.2			
FH (60°-80°)	2051.8	37.7			G2/5000
FVH (80°-90°)	43.8	0.8			G1/100
BL (0°-30°)	253.9	4.7	B1/500		
BM (30°-60°)	593.5	10.9	B1/1000		
BH (60°-80°)	361.4	6.6	B1/500		G1/500
BVH (80°-90°)	29.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	574.6	576.5	576.1	573.0	571.0	567.5	567.9	562.4	554.1	548.6	542.3
5°	625.3	628.4	624.5	619.4	611.5	600.1	598.9	586.4	570.6	559.6	548.2
7.5°	669.3	671.3	666.5	657.9	646.5	631.2	628.4	613.5	593.8	576.5	560.0
10°	703.5	705.8	699.5	688.2	673.2	657.9	655.9	640.6	619.8	599.3	578.5
12.5°	732.6	733.3	726.7	711.3	695.2	679.5	677.5	663.4	644.1	623.3	600.5
15°	749.5	749.9	741.6	724.7	709.4	695.6	694.4	682.3	664.6	644.9	620.6
17.5°	748.3	749.1	743.2	728.2	714.9	706.6	705.4	697.6	683.8	666.1	641.8
20°	733.7	734.5	730.6	720.8	713.7	711.3	711.7	709.4	701.1	686.6	661.8
22.5°	722.3	723.5	720.0	712.9	712.1	717.6	718.8	720.0	716.1	703.1	679.1
25°	727.8	729.8	724.3	714.5	716.1	728.2	730.6	734.5	731.4	720.4	699.5
27.5°	766.0	767.1	753.0	733.0	728.2	741.2	744.7	751.0	748.7	738.5	722.3
30°	854.4	853.6	823.3	774.2	754.6	759.7	762.4	771.5	772.3	765.6	750.2
32.5°	979.0	975.0	928.3	850.1	793.1	780.5	783.7	795.8	804.9	797.8	777.0
35°	1110.6	1107.1	1055.6	964.0	864.2	820.6	817.1	826.5	840.2	820.6	790.7
37.5°	1236.0	1230.5	1177.8	1064.7	951.9	890.9	885.8	876.4	868.1	830.4	807.6
40°	1375.1	1368.8	1322.9	1194.7	1048.5	944.8	931.8	894.5	887.0	863.0	851.6
42.5°	1523.7	1523.7	1485.6	1359.4	1165.3	1021.8	1004.9	948.7	956.6	940.9	927.5
45°	1672.2	1676.6	1646.3	1525.3	1321.3	1167.2	1140.1	1060.3	1079.2	1072.1	1065.4
47.5°	1798.8	1807.0	1801.1	1694.6	1512.3	1344.1	1302.8	1219.9	1260.4	1277.3	1296.1
50°	1935.2	1944.2	1938.3	1896.3	1735.9	1558.3	1521.3	1435.6	1505.2	1555.9	1617.6
52.5°	2137.6	2150.5	2101.4	2085.3	2007.5	1801.5	1768.5	1671.1	1797.2	1881.3	2018.9
55°	2308.5	2308.1	2290.8	2327.8	2299.1	2099.0	2062.5	1974.1	2135.2	2224.4	2425.6
57.5°	2387.9	2397.3	2456.7	2561.2	2618.6	2462.6	2427.6	2337.2	2497.9	2544.3	2761.6
60°	2428.8	2440.6	2555.3	2762.0	2916.5	2859.5	2845.8	2730.6	2821.0	2815.5	3045.0
62.5°	2371.4	2395.0	2579.3	2854.0	3129.1	3258.4	3254.1	3080.0	3095.7	3041.9	3220.7
65°	2108.1	2133.6	2422.9	2808.0	3250.5	3561.8	3563.0	3396.4	3306.7	3151.9	3191.2
67.5°	1507.6	1544.1	1901.8	2512.5	3207.7	3725.7	3739.4	3539.8	3356.3	3054.4	2881.5
70°	821.8	848.5	1128.7	1826.3	2821.8	3686.4	3711.9	3470.6	3137.8	2642.2	2218.1
72.5°	373.4	382.0	525.1	1002.2	1927.7	3173.1	3280.0	3097.3	2576.9	1951.7	1410.5
75°	171.0	174.9	228.7	479.5	1007.3	2123.4	2198.5	2306.9	1793.3	1232.5	735.3
77.5°	107.3	108.5	130.1	219.3	502.3	1059.9	1138.9	1373.6	1050.1	609.9	307.3
80°	63.3	64.5	81.0	118.7	235.8	485.0	560.0	543.1	493.6	263.3	139.9
82.5°	31.8	33.0	46.8	67.6	128.5	193.0	227.2	228.3	183.9	142.7	79.0
85°	11.4	11.8	15.3	26.7	54.6	63.7	71.1	86.9	90.0	82.9	38.1
87.5°	0.0	0.0	0.4	0.8	1.6	6.3	6.7	12.6	26.3	29.5	15.3
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°	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8	538.8
2.5°	540.4	534.5	532.5	530.6	527.4	526.2	523.9	521.5	521.5	519.2	518.0
5°	543.1	535.3	530.2	527.8	525.8	527.0	527.0	527.8	530.6	529.0	529.8
7.5°	553.0	543.9	536.8	534.9	534.9	539.6	542.7	546.7	551.8	552.6	552.6
10°	570.3	559.6	552.2	551.0	553.0	559.6	564.4	569.1	575.4	575.8	576.5
12.5°	589.1	578.5	571.0	572.6	574.6	583.2	588.3	592.3	598.5	598.5	598.2
15°	608.8	597.0	590.7	593.8	599.7	609.6	610.3	610.7	613.9	613.1	612.7
17.5°	629.2	616.6	611.9	616.6	622.9	627.6	623.7	618.2	617.0	615.4	614.7
20°	649.2	636.3	634.3	637.8	639.8	635.9	623.7	613.5	608.8	606.4	605.6
22.5°	666.5	655.5	654.4	654.4	644.5	630.8	612.7	598.9	592.7	589.5	588.7
25°	687.0	676.8	674.8	664.2	639.0	613.9	589.5	576.9	571.8	570.3	570.6
27.5°	710.9	703.9	697.6	667.3	623.3	584.0	556.5	551.0	549.0	551.0	552.2
30°	740.4	733.3	719.2	663.4	598.2	545.1	518.8	518.4	524.3	529.4	530.2
32.5°	764.4	761.3	738.1	650.8	562.8	502.3	479.9	481.4	492.0	499.1	500.3
35°	783.3	788.4	753.8	630.0	520.7	461.8	444.1	444.9	450.8	460.6	461.0
37.5°	810.0	827.3	767.9	598.2	472.4	426.8	410.7	404.8	404.0	406.8	407.5
40°	863.8	889.8	778.2	551.8	425.6	395.4	377.3	365.9	356.1	348.6	346.2
42.5°	945.2	975.0	784.0	495.6	384.0	364.3	343.9	329.3	312.0	296.3	290.8
45°	1094.5	1104.3	784.0	435.8	347.0	335.2	314.8	297.5	275.5	257.0	253.1
47.5°	1333.5	1302.0	784.8	378.1	314.4	309.7	292.0	272.4	248.0	232.7	230.3
50°	1693.5	1583.0	800.9	330.1	287.3	288.1	275.1	253.5	231.5	220.1	218.1
52.5°	2101.4	1929.3	844.2	294.8	264.5	270.4	263.3	242.5	222.8	213.0	211.0
55°	2485.0	2247.6	881.1	269.6	245.2	255.5	255.1	235.8	218.1	208.3	207.1
57.5°	2811.2	2465.7	875.6	249.2	228.7	241.7	247.6	231.5	215.0	206.7	205.5
60°	3014.0	2581.3	797.4	230.3	216.2	231.9	243.3	230.3	216.5	214.6	215.0
62.5°	3102.0	2560.0	647.3	216.2	207.9	227.2	248.0	238.6	231.1	235.8	238.6
65°	2965.2	2377.7	476.3	205.5	200.0	228.3	259.0	251.5	231.1	234.2	235.4
67.5°	2585.6	2024.0	344.3	194.9	190.2	231.9	274.7	249.6	217.7	217.7	215.4
70°	1863.2	1455.7	250.0	184.3	180.4	226.8	275.5	236.2	202.4	201.2	195.3
72.5°	1121.2	858.7	194.9	172.5	165.5	201.2	258.2	220.5	187.5	177.6	170.6
75°	582.4	430.3	163.5	159.6	141.9	170.6	236.2	196.1	160.3	151.7	147.8
77.5°	249.6	201.2	140.3	142.3	117.9	143.4	190.6	169.8	142.3	131.3	127.7
80°	123.0	114.4	110.8	114.0	94.3	110.8	164.3	148.6	120.7	108.1	103.0
82.5°	70.3	66.8	79.8	81.0	67.2	92.7	138.7	125.8	99.8	86.1	77.8
85°	32.6	35.0	48.3	48.7	41.7	63.7	90.8	70.7	53.1	44.0	42.1
87.5°	13.0	15.3	21.2	20.8	12.2	11.8	7.9	4.3	3.5	3.1	2.8
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)