

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: P639042

Luminaire Tested: GWS-SA5B-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639042
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-SA5B-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8767.4 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

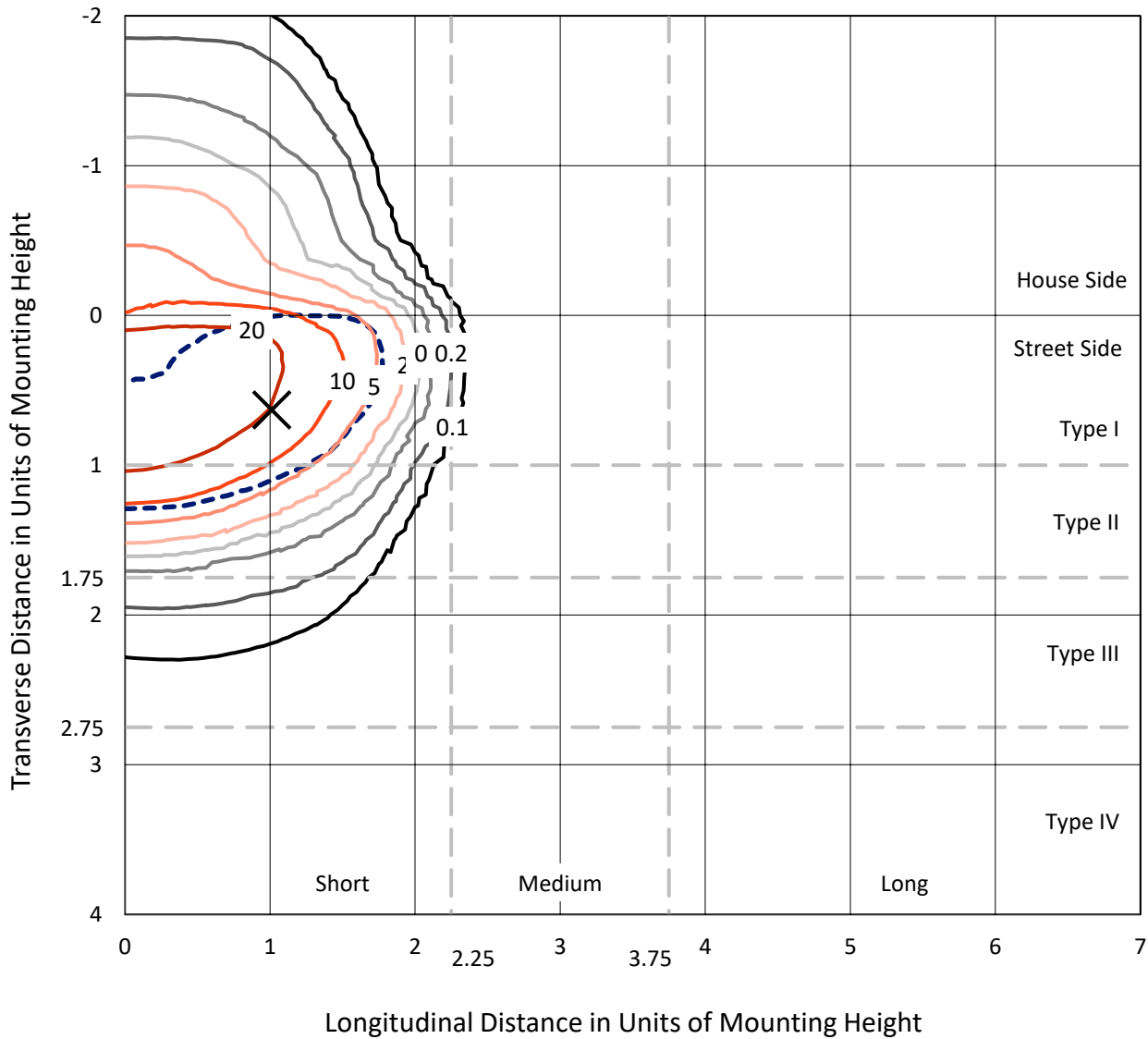
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

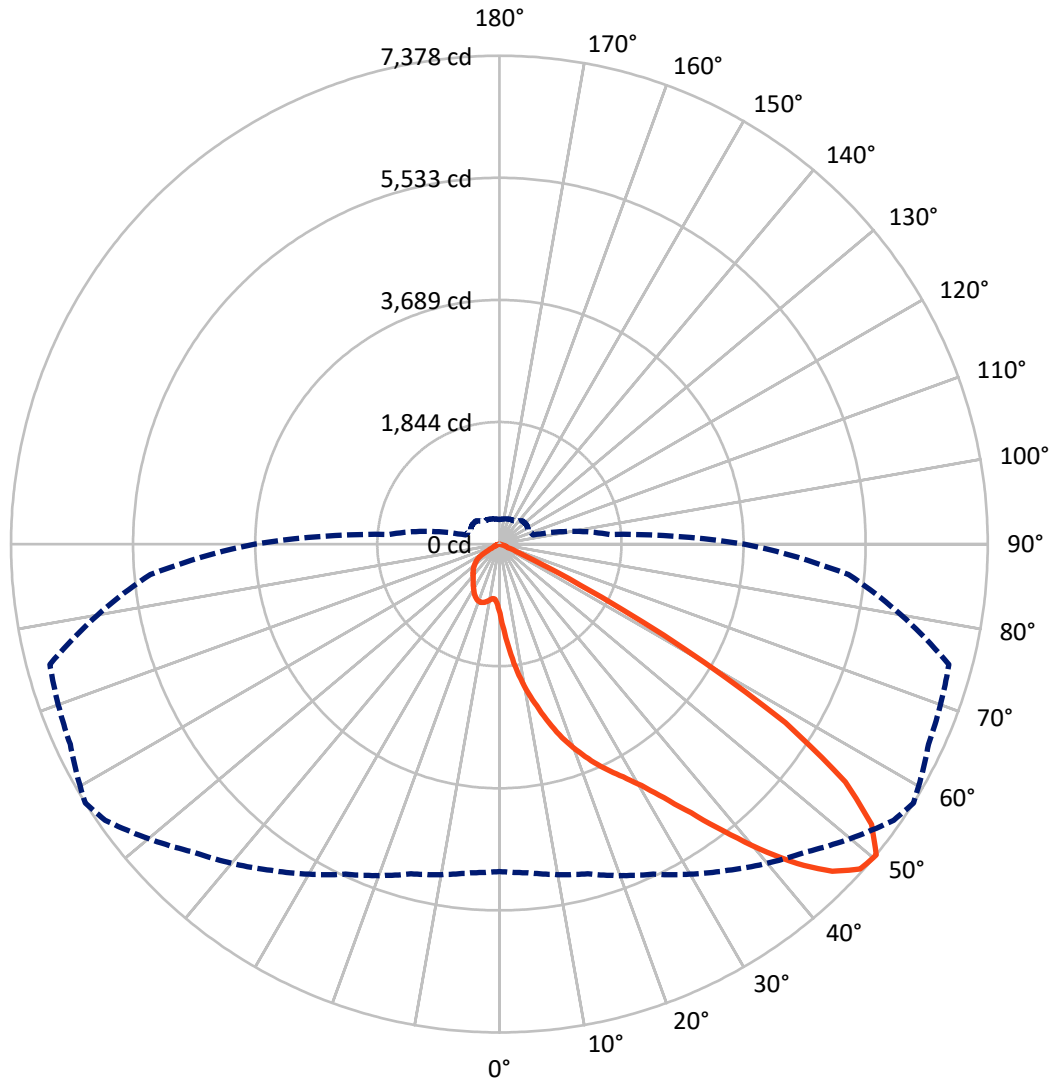
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.2 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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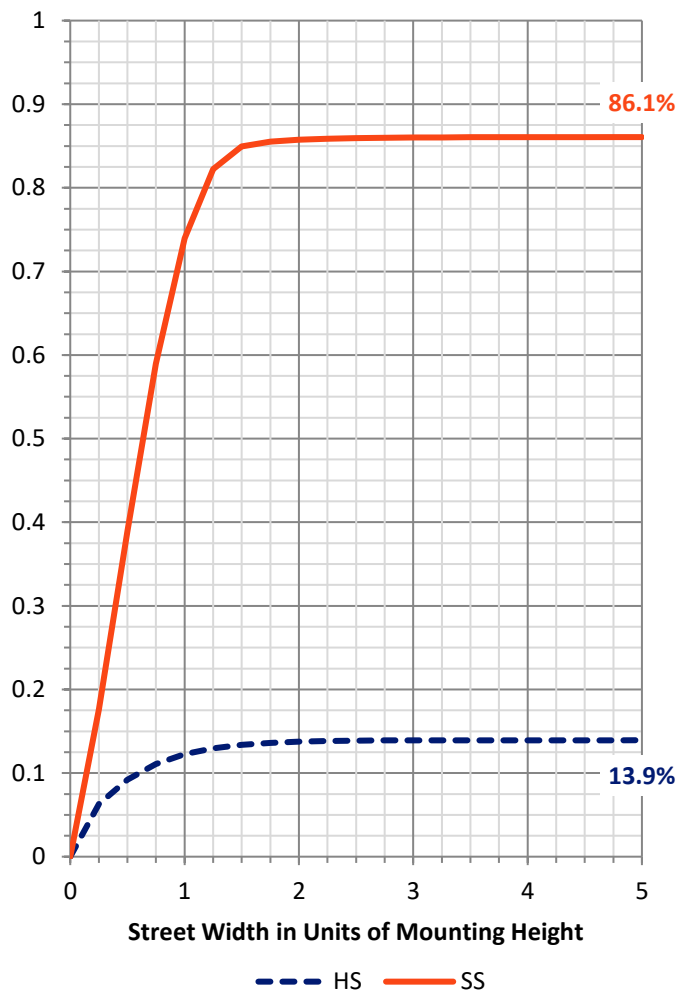
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.0	0.0	1228.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7539.4	0.0	7539.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	8767.4	0.0	8767.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	1.5
10°-20°	513.6	5.9
20°-30°	1039.3	11.9
30°-40°	1838.6	21.0
40°-50°	2680.3	30.6
50°-60°	2148.3	24.5
60°-70°	387.0	4.4
70°-80°	30.5	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°	8767.4	100.0
0°-180°	8767.4	100.0

Coefficient of Utilization



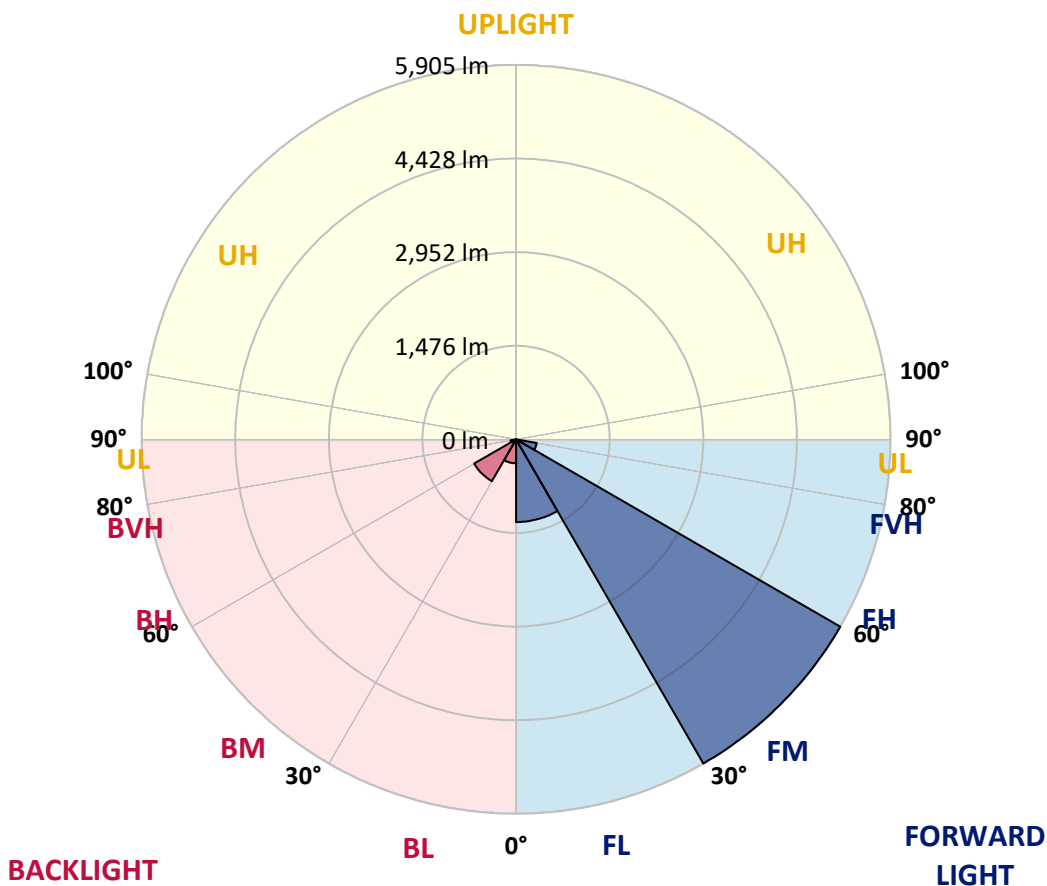
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.6	14.9			
FM (30°-60°)	5904.6	67.3			
FH (60°-80°)	330.3	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	378.1	4.3	B1/500		
BM (30°-60°)	762.6	8.7	B1/1000		
BH (60°-80°)	87.3	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°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1549.8	1525.4	1511.3	1500.1	1450.4	1371.6	1320.1	1292.9	1247.9	1171.9	1106.3
5°	2022.3	2004.5	1971.7	1949.2	1885.4	1773.9	1658.5	1612.6	1510.4	1338.8	1185.1
7.5°	2335.5	2322.3	2310.1	2280.1	2220.1	2118.9	1991.4	1943.6	1786.0	1542.3	1290.1
10°	2576.4	2566.1	2552.0	2551.1	2504.2	2413.3	2288.6	2238.9	2068.3	1763.5	1413.8
12.5°	2788.3	2779.9	2777.0	2803.3	2773.3	2705.8	2570.8	2508.9	2328.0	1989.5	1550.7
15°	2933.6	2931.7	2943.9	2995.5	3012.4	2981.4	2868.0	2801.4	2593.3	2216.4	1701.7
17.5°	3000.2	3005.8	3029.2	3118.3	3193.3	3219.6	3132.4	3076.1	2856.7	2446.1	1862.9
20°	3113.6	3111.8	3125.8	3210.2	3302.1	3395.8	3369.6	3321.8	3123.0	2688.9	2042.0
22.5°	3433.3	3406.1	3376.1	3389.3	3422.1	3531.8	3580.5	3556.2	3397.7	2938.3	2226.7
25°	3924.6	3896.5	3799.9	3706.2	3644.3	3694.0	3760.5	3772.7	3670.5	3194.3	2419.8
27.5°	4445.9	4420.6	4311.8	4171.2	3994.0	3907.7	3957.4	3981.8	3938.7	3499.0	2625.2
30°	4934.4	4900.6	4781.5	4607.2	4401.8	4269.6	4213.4	4230.3	4255.6	3859.9	2866.1
32.5°	5358.1	5332.8	5190.3	5006.6	4808.7	4670.9	4539.6	4567.8	4629.7	4301.5	3174.6
35°	5717.2	5704.1	5553.1	5370.3	5161.2	5090.9	4978.4	4984.1	5045.9	4835.0	3550.5
37.5°	6029.4	6006.9	5870.0	5700.3	5534.4	5523.1	5492.2	5495.0	5526.9	5456.6	3982.7
40°	6226.3	6205.7	6108.2	6003.2	5885.0	5886.9	6047.2	6059.4	6022.9	6066.9	4439.3
42.5°	6300.4	6285.4	6232.9	6233.8	6221.6	6276.9	6577.9	6600.4	6469.1	6546.0	4829.4
45°	6171.9	6165.4	6169.1	6304.1	6450.4	6621.0	7012.0	7051.4	6865.7	6863.9	5134.1
47.5°	5757.5	5744.4	5854.1	6083.8	6422.3	6754.2	7274.5	7335.4	7143.2	7045.7	5325.3
50°	4945.6	4983.1	5156.6	5501.6	6016.3	6571.3	7271.7	7377.6	7153.6	7029.8	5293.4
52.5°	3582.4	3574.9	3954.6	4429.0	5055.3	5986.3	6885.4	7040.1	6903.2	6873.2	5222.2
55°	1949.2	2017.6	2273.6	2901.7	3683.7	4879.0	6003.2	6340.7	6499.1	6816.0	5350.6
57.5°	716.3	746.3	906.6	1351.0	1950.1	3033.9	4585.6	5094.7	5584.1	6656.7	5329.1
60°	288.8	294.4	358.1	496.9	819.4	1544.2	2750.8	3202.7	3664.0	5095.6	4089.6
62.5°	210.0	217.5	242.8	290.6	414.4	675.0	1186.0	1379.1	1507.6	2523.9	2014.8
65°	169.7	175.3	195.9	217.5	273.8	362.8	382.5	368.5	366.6	652.5	462.2
67.5°	140.6	146.3	161.3	176.3	196.9	180.9	131.3	137.8	112.5	111.6	90.9
70°	103.1	109.7	124.7	140.6	118.1	48.8	75.9	112.5	85.3	71.3	69.4
72.5°	77.8	82.5	96.6	91.9	34.7	18.8	50.6	81.6	65.6	52.5	51.6
75°	58.1	60.9	48.8	15.0	3.8	4.7	18.8	33.8	36.6	30.0	30.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	2.8	3.8	4.7	5.6
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°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1068.8	1029.4	973.2	926.3	890.7	856.0	829.7	803.5	802.5	789.4	786.6
5°	1113.8	1042.6	939.4	865.4	820.4	793.2	774.4	765.0	760.4	755.7	753.8
7.5°	1178.5	1076.3	933.8	855.1	817.5	799.7	786.6	781.0	778.2	774.4	773.5
10°	1258.2	1125.1	954.4	874.7	841.9	825.0	811.0	802.5	797.9	791.3	789.4
12.5°	1353.8	1185.1	987.2	907.6	872.9	850.4	831.6	819.4	812.9	804.4	802.5
15°	1457.0	1249.8	1023.8	937.6	896.3	867.2	843.8	825.0	812.9	802.5	799.7
17.5°	1563.8	1315.4	1056.6	958.2	907.6	872.9	839.1	813.8	798.8	785.7	781.9
20°	1683.9	1382.9	1078.2	961.9	903.8	857.9	818.5	786.6	771.6	753.8	750.0
22.5°	1809.5	1445.7	1087.6	953.5	883.2	829.7	787.5	754.7	733.2	714.4	708.8
25°	1931.4	1502.0	1082.9	930.1	852.2	790.4	747.2	713.5	690.0	671.3	666.6
27.5°	2060.7	1548.8	1066.0	895.4	810.0	747.2	706.0	676.9	655.4	634.7	630.0
30°	2206.1	1592.0	1038.8	853.2	760.4	703.2	671.3	651.6	628.2	606.6	600.0
32.5°	2381.4	1630.4	999.4	802.5	716.3	664.7	646.9	631.9	604.7	582.2	577.5
35°	2582.0	1662.3	949.7	750.0	673.2	640.4	636.6	616.9	581.3	555.0	549.4
37.5°	2814.5	1693.2	890.7	698.5	641.3	629.1	630.0	596.3	553.2	521.3	517.5
40°	3064.9	1724.2	825.0	653.5	612.2	622.5	614.1	566.3	496.0	465.0	461.3
42.5°	3325.5	1757.9	758.5	611.3	587.8	597.2	585.0	506.3	455.7	439.7	437.8
45°	3560.8	1798.2	686.3	569.1	563.5	560.7	540.0	458.5	436.9	425.7	424.7
47.5°	3730.5	1791.7	609.4	528.8	537.2	527.8	465.0	436.0	418.2	403.1	399.4
50°	3699.6	1677.3	529.7	483.8	503.5	495.0	418.2	409.7	393.8	377.8	372.2
52.5°	3620.8	1521.7	460.3	436.0	466.9	447.2	386.3	377.8	363.8	343.1	336.6
55°	3663.0	1375.4	406.0	397.5	429.4	370.3	350.6	337.5	322.5	300.0	297.2
57.5°	3527.1	1122.3	326.3	331.9	379.7	316.0	307.5	286.9	261.6	246.6	244.7
60°	2441.4	602.8	204.4	211.0	274.7	265.3	275.6	256.9	226.0	211.9	209.1
62.5°	1121.3	241.9	111.6	106.9	144.4	180.0	236.3	234.4	195.9	173.4	171.6
65°	271.9	110.6	79.7	75.0	81.6	107.8	153.8	184.7	158.4	132.2	129.4
67.5°	88.1	90.0	73.1	68.4	72.2	80.6	91.9	102.2	101.3	92.8	90.9
70°	70.3	81.6	67.5	61.9	61.9	64.7	61.9	49.7	43.1	46.9	48.8
72.5°	52.5	61.9	53.4	47.8	45.9	45.0	38.4	28.1	19.7	17.8	16.9
75°	30.9	34.7	32.8	28.1	26.3	23.4	18.8	12.2	6.6	4.7	2.8
77.5°	5.6	6.6	7.5	5.6	4.7	3.8	2.8	0.9	0.0	0.0	0.0
80°	0.0	0.9	0.9	0.9	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)