

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: P633817

Luminaire Tested: GWS-SA2F-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633817
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-SA2F-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10874.8 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

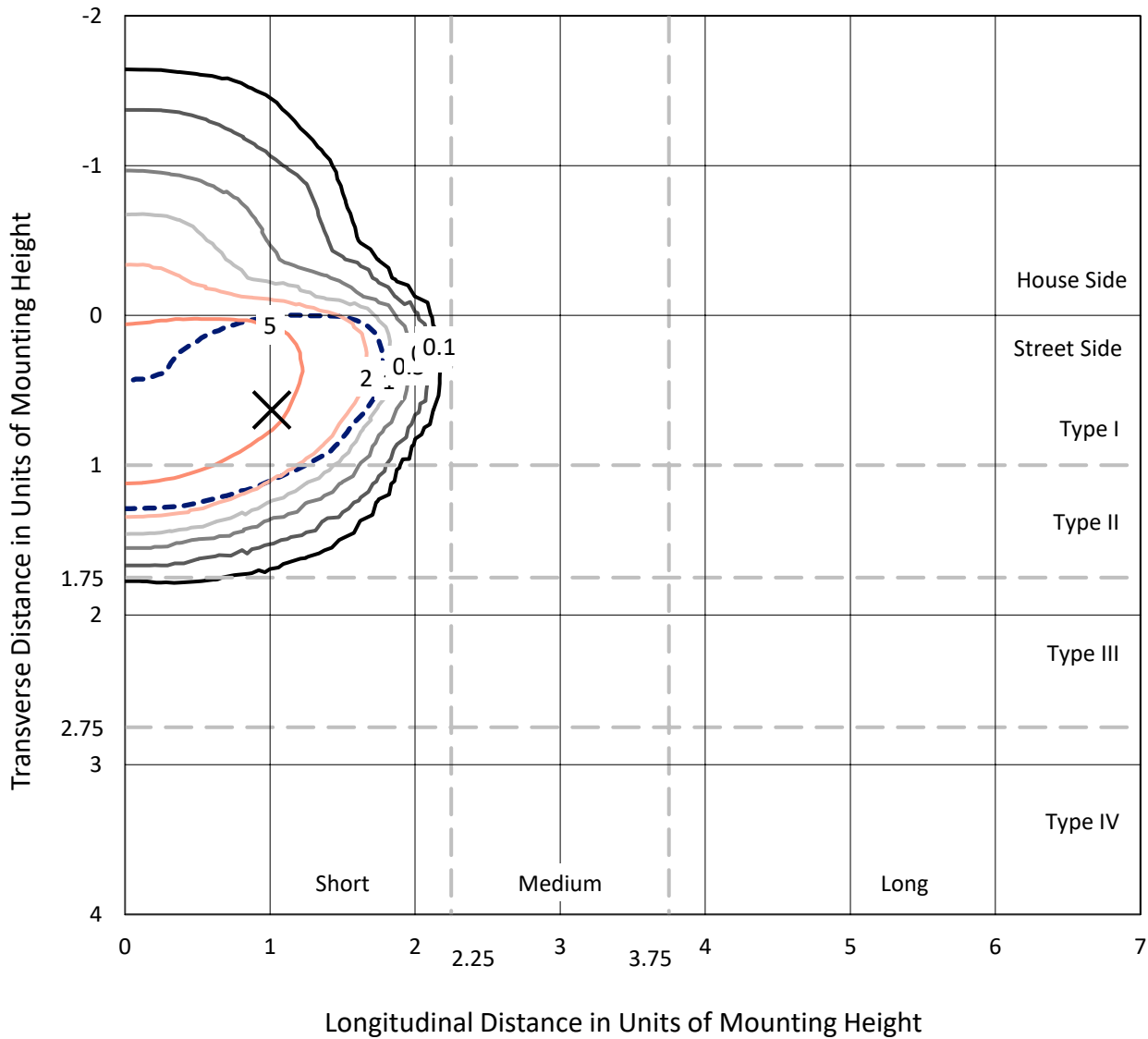
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

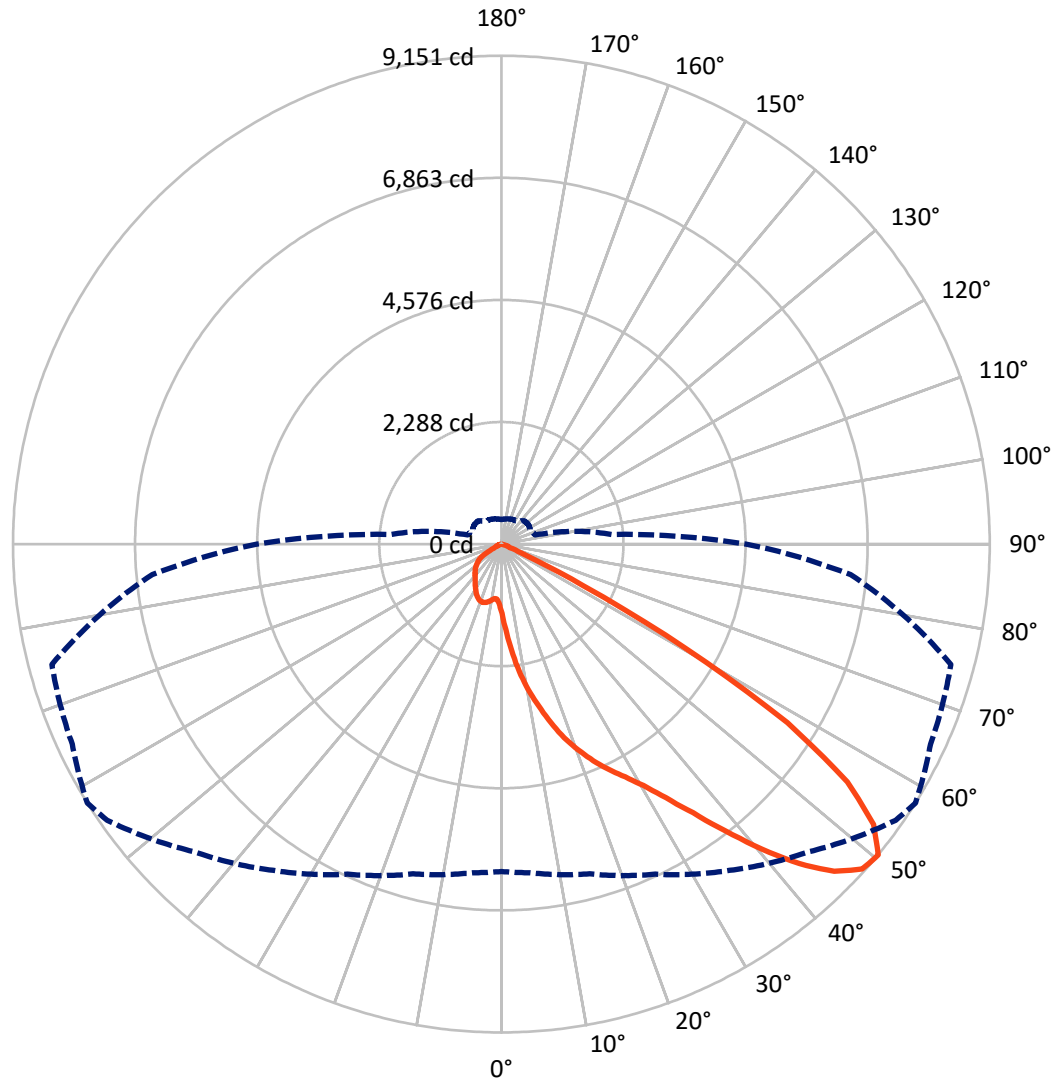
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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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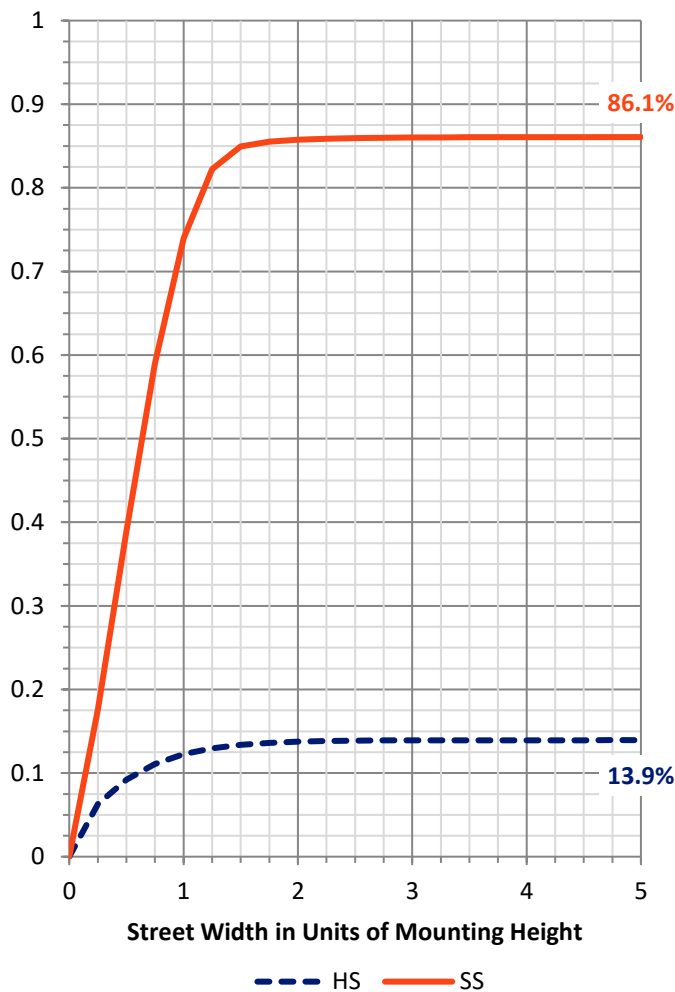
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.2	0.0	1523.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9351.6	0.0	9351.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	10874.8	0.0	10874.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	1.5
10°-20°	637.0	5.9
20°-30°	1289.1	11.9
30°-40°	2280.5	21.0
40°-50°	3324.6	30.6
50°-60°	2664.7	24.5
60°-70°	480.1	4.4
70°-80°	37.8	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°	10874.8	100.0
0°-180°	10874.8	100.0

Coefficient of Utilization



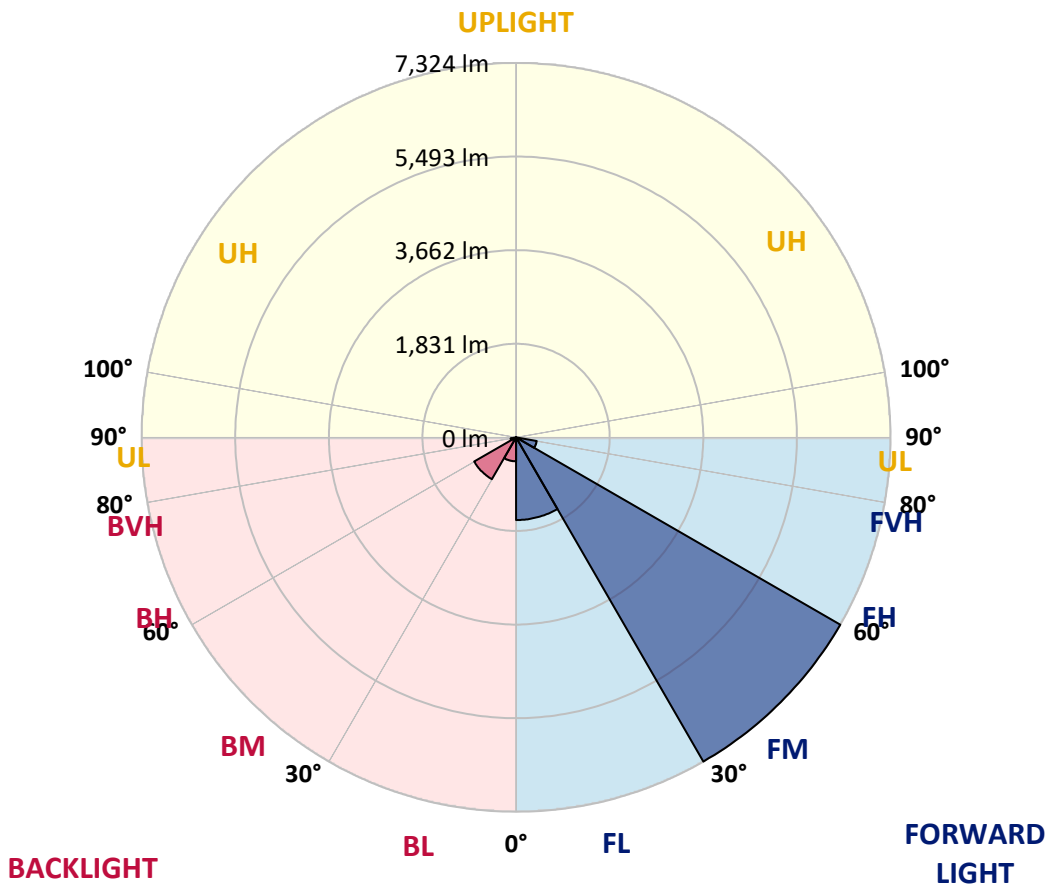
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.1	14.9			
FM (30°-60°)	7323.8	67.3			
FH (60°-80°)	409.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	468.9	4.3	B1/500		
BM (30°-60°)	946.0	8.7	B1/1000		
BH (60°-80°)	108.3	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°	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0
2.5°	1922.3	1892.1	1874.6	1860.7	1799.0	1701.3	1637.4	1603.7	1547.8	1453.6	1372.2
5°	2508.4	2486.3	2445.6	2417.7	2338.6	2200.2	2057.2	2000.2	1873.5	1660.6	1469.9
7.5°	2896.8	2880.5	2865.4	2828.2	2753.8	2628.2	2470.0	2410.7	2215.4	1913.0	1600.2
10°	3195.7	3182.9	3165.5	3164.3	3106.1	2993.3	2838.7	2777.0	2565.4	2187.4	1753.7
12.5°	3458.5	3448.0	3444.6	3477.1	3439.9	3356.2	3188.7	3112.0	2887.5	2467.7	1923.5
15°	3638.8	3636.4	3651.6	3715.5	3736.4	3698.1	3557.4	3474.8	3216.6	2749.1	2110.7
17.5°	3721.3	3728.3	3757.4	3867.9	3960.9	3993.5	3885.3	3815.5	3543.4	3034.0	2310.7
20°	3862.0	3859.7	3877.2	3981.8	4095.8	4212.1	4179.5	4120.2	3873.7	3335.2	2532.8
22.5°	4258.6	4224.9	4187.7	4203.9	4244.6	4380.7	4441.2	4410.9	4214.4	3644.6	2761.9
25°	4868.0	4833.1	4713.3	4597.0	4520.3	4581.9	4664.5	4679.6	4552.8	3962.1	3001.5
27.5°	5514.5	5483.1	5348.2	5173.8	4954.0	4847.0	4908.7	4938.9	4885.4	4340.0	3256.2
30°	6120.4	6078.6	5930.9	5714.6	5459.9	5295.9	5226.1	5247.1	5278.5	4787.7	3555.0
32.5°	6646.1	6614.7	6437.9	6210.0	5964.6	5793.6	5630.8	5665.7	5742.5	5335.5	3937.6
35°	7091.5	7075.2	6887.9	6661.2	6401.8	6314.6	6175.1	6182.1	6258.8	5997.2	4404.0
37.5°	7478.7	7450.8	7281.0	7070.5	6864.7	6850.7	6812.4	6815.8	6855.4	6768.2	4940.1
40°	7722.9	7697.3	7576.4	7446.1	7299.6	7301.9	7500.8	7515.9	7470.6	7525.2	5506.4
42.5°	7814.8	7796.2	7731.1	7732.2	7717.1	7785.7	8159.0	8186.9	8024.1	8119.5	5990.2
45°	7655.5	7647.3	7652.0	7819.4	8000.9	8212.5	8697.4	8746.3	8516.0	8513.7	6368.1
47.5°	7141.5	7125.2	7261.2	7546.2	7966.0	8377.6	9023.1	9098.6	8860.3	8739.3	6605.4
50°	6134.4	6180.9	6396.0	6824.0	7462.4	8150.9	9019.6	9151.0	8873.0	8719.5	6565.8
52.5°	4443.5	4434.2	4905.2	5493.6	6270.4	7425.2	8540.4	8732.3	8562.5	8525.3	6477.4
55°	2417.7	2502.6	2820.1	3599.2	4569.1	6051.8	7446.1	7864.8	8061.3	8454.4	6636.8
57.5°	888.5	925.7	1124.5	1675.8	2418.9	3763.2	5687.8	6319.3	6926.3	8256.7	6610.0
60°	358.2	365.2	444.2	616.3	1016.4	1915.3	3412.0	3972.5	4544.7	6320.4	5072.6
62.5°	260.5	269.8	301.2	360.5	514.0	837.3	1471.1	1710.6	1870.0	3130.6	2499.1
65°	210.5	217.5	243.0	269.8	339.6	450.0	474.5	457.0	454.7	809.4	573.3
67.5°	174.4	181.4	200.0	218.6	244.2	224.4	162.8	170.9	139.5	138.4	112.8
70°	127.9	136.1	154.7	174.4	146.5	60.5	94.2	139.5	105.8	88.4	86.1
72.5°	96.5	102.3	119.8	114.0	43.0	23.3	62.8	101.2	81.4	65.1	64.0
75°	72.1	75.6	60.5	18.6	4.7	5.8	23.3	41.9	45.4	37.2	37.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	4.7	5.8	7.0
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°	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0	1299.0
2.5°	1325.7	1276.9	1207.1	1149.0	1104.8	1061.7	1029.2	996.6	995.5	979.2	975.7
5°	1381.5	1293.2	1165.2	1073.4	1017.6	983.8	960.6	948.9	943.1	937.3	935.0
7.5°	1461.8	1335.0	1158.3	1060.6	1014.1	992.0	975.7	968.7	965.2	960.6	959.4
10°	1560.6	1395.5	1183.8	1085.0	1044.3	1023.4	1005.9	995.5	989.6	981.5	979.2
12.5°	1679.2	1469.9	1224.5	1125.7	1082.7	1054.8	1031.5	1016.4	1008.2	997.8	995.5
15°	1807.2	1550.2	1269.9	1162.9	1111.7	1075.7	1046.6	1023.4	1008.2	995.5	992.0
17.5°	1939.7	1631.6	1310.6	1188.5	1125.7	1082.7	1040.8	1009.4	990.8	974.5	969.9
20°	2088.6	1715.3	1337.4	1193.2	1121.1	1064.1	1015.2	975.7	957.1	935.0	930.3
22.5°	2244.4	1793.2	1349.0	1182.7	1095.5	1029.2	976.8	936.1	909.4	886.1	879.2
25°	2395.6	1863.0	1343.2	1153.6	1057.1	980.3	926.8	885.0	855.9	832.6	826.8
27.5°	2556.1	1921.1	1322.2	1110.6	1004.8	926.8	875.7	839.6	812.9	787.3	781.5
30°	2736.3	1974.6	1288.5	1058.3	943.1	872.2	832.6	808.2	779.2	752.4	744.3
32.5°	2953.8	2022.3	1239.7	995.5	888.5	824.5	802.4	783.8	750.1	722.2	716.4
35°	3202.7	2061.8	1178.0	930.3	835.0	794.3	789.6	765.2	721.0	688.4	681.5
37.5°	3491.1	2100.2	1104.8	866.4	795.4	780.3	781.5	739.6	686.1	646.6	641.9
40°	3801.6	2138.6	1023.4	810.6	759.4	772.2	761.7	702.4	615.2	576.8	572.2
42.5°	4124.9	2180.5	940.8	758.2	729.1	740.8	725.7	628.0	565.2	545.4	543.1
45°	4416.8	2230.5	851.3	705.9	698.9	695.4	669.8	568.7	541.9	528.0	526.8
47.5°	4627.2	2222.3	755.9	655.9	666.4	654.7	576.8	540.8	518.7	500.1	495.4
50°	4588.9	2080.5	657.0	600.1	624.5	614.0	518.7	508.2	488.4	468.7	461.7
52.5°	4491.2	1887.4	571.0	540.8	579.1	554.7	479.1	468.7	451.2	425.6	417.5
55°	4543.5	1706.0	503.5	493.1	532.6	459.4	434.9	418.6	400.0	372.1	368.6
57.5°	4374.9	1392.0	404.7	411.7	471.0	391.9	381.4	355.9	324.5	305.8	303.5
60°	3028.2	747.8	253.5	261.7	340.7	329.1	341.9	318.6	280.3	262.8	259.3
62.5°	1390.8	300.0	138.4	132.6	179.1	223.3	293.1	290.7	243.0	215.1	212.8
65°	337.2	137.2	98.8	93.0	101.2	133.7	190.7	229.1	196.5	164.0	160.5
67.5°	109.3	111.6	90.7	84.9	89.5	100.0	114.0	126.8	125.6	115.1	112.8
70°	87.2	101.2	83.7	76.8	76.8	80.2	76.8	61.6	53.5	58.1	60.5
72.5°	65.1	76.8	66.3	59.3	57.0	55.8	47.7	34.9	24.4	22.1	20.9
75°	38.4	43.0	40.7	34.9	32.6	29.1	23.3	15.1	8.1	5.8	3.5
77.5°	7.0	8.1	9.3	7.0	5.8	4.7	3.5	1.2	0.0	0.0	0.0
80°	0.0	1.2	1.2	1.2	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)