

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: P638877

Luminaire Tested: GWS-SA4F-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638877
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-SA4F-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23011.2 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

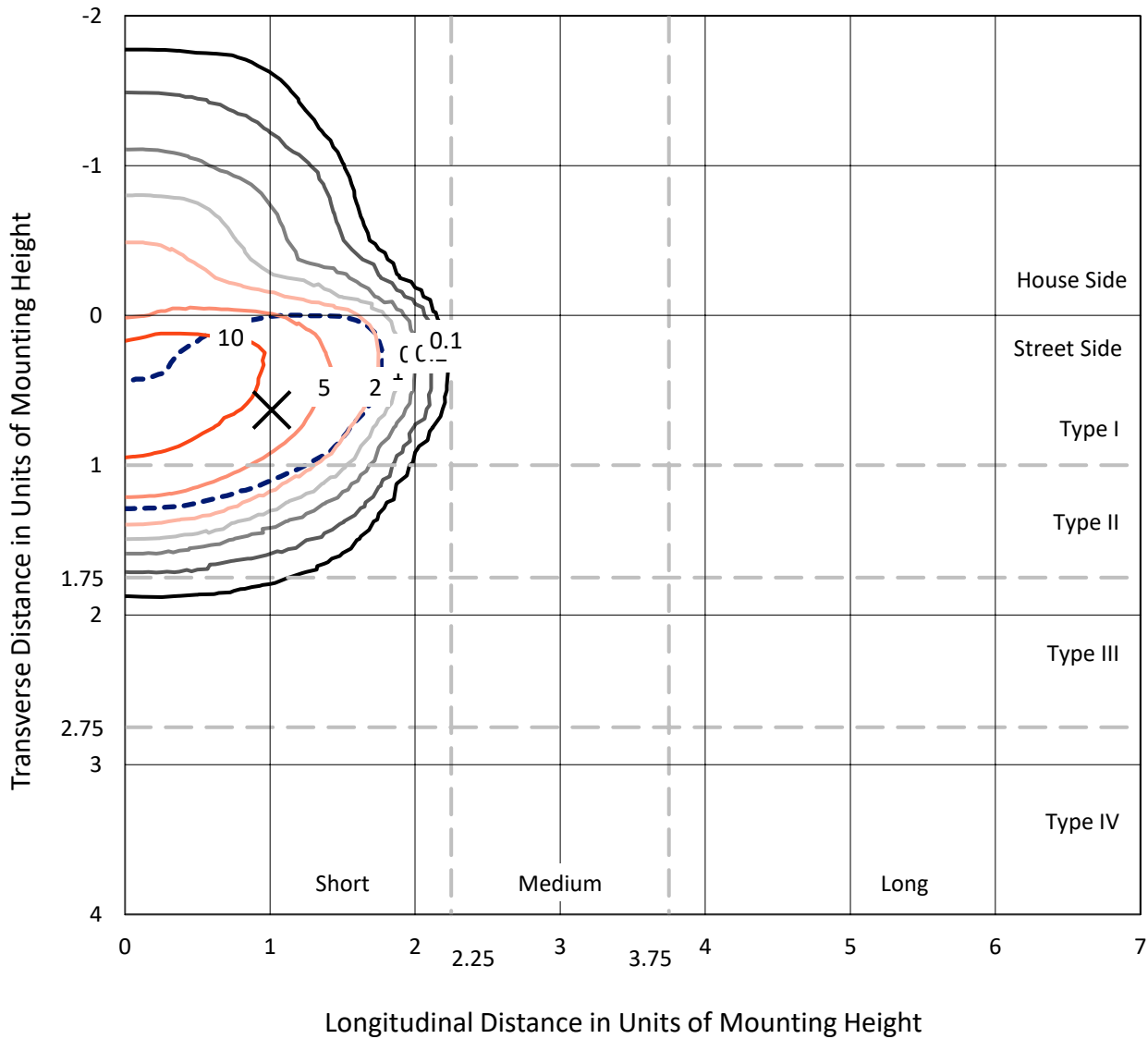
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

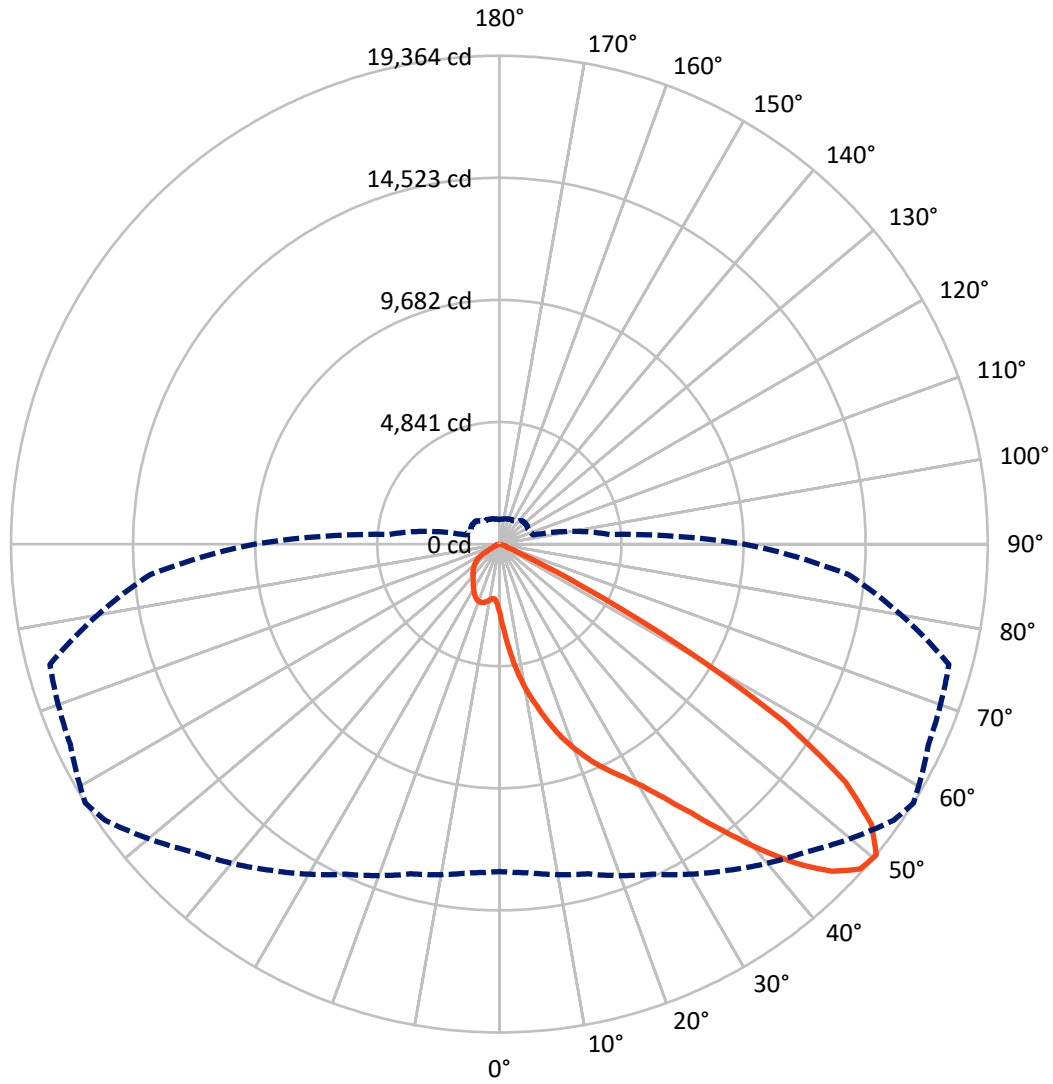
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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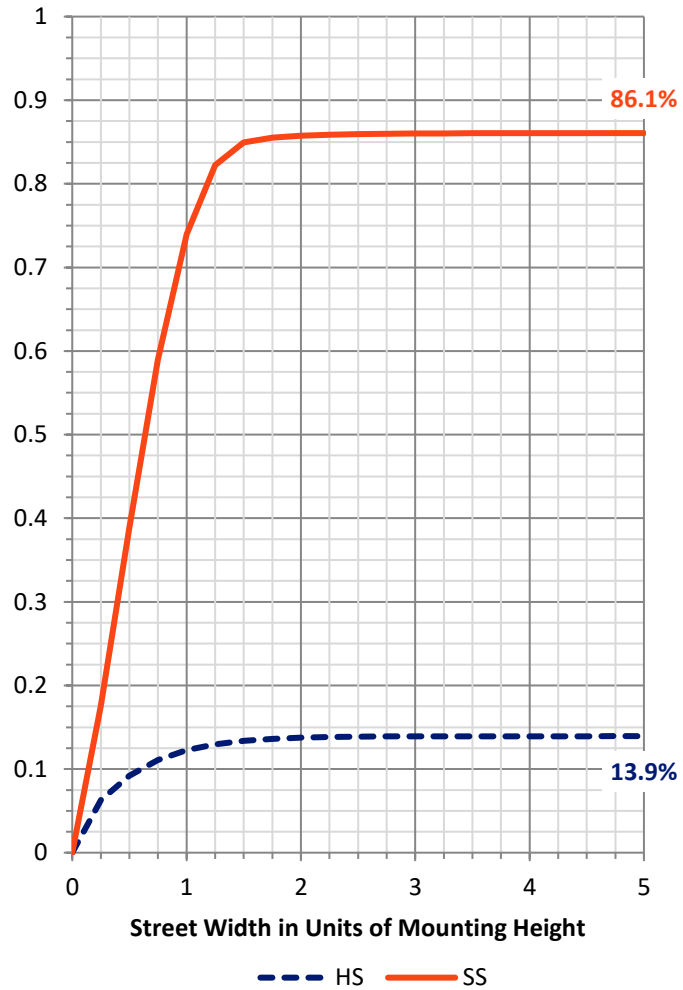
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3223.0	0.0	3223.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19788.2	0.0	19788.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	23011.2	0.0	23011.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.5	1.5
10°-20°	1348.0	5.9
20°-30°	2727.7	11.9
30°-40°	4825.7	21.0
40°-50°	7034.8	30.6
50°-60°	5638.6	24.5
60°-70°	1015.8	4.4
70°-80°	80.1	0.3
80°-90°	0.1	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°	23011.2	100.0
0°-180°	23011.2	100.0

Coefficient of Utilization



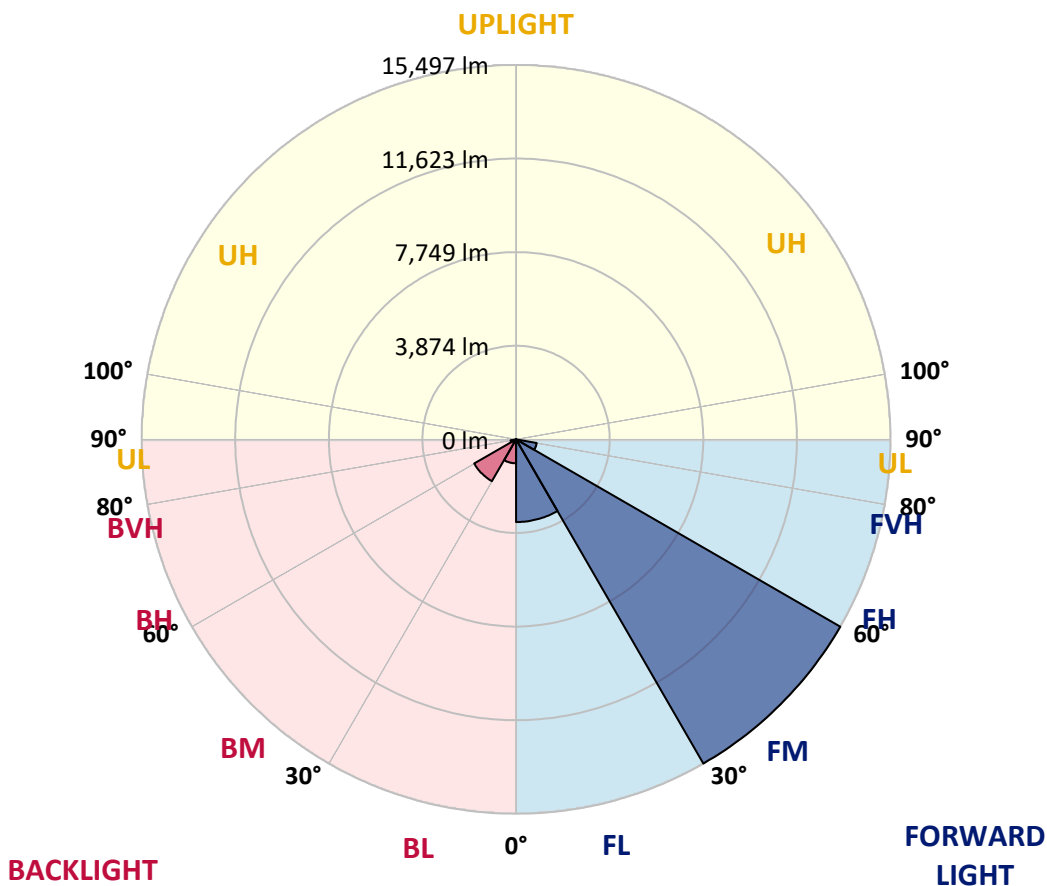
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3424.0	14.9			
FM (30°-60°)	15497.4	67.3			
FH (60°-80°)	866.8	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	992.3	4.3	B2/1000		
BM (30°-60°)	2001.7	8.7	B2/2500		
BH (60°-80°)	229.1	1.0	B1/500		G1/500
BVH (80°-90°)	0.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6
2.5°	4067.6	4003.6	3966.7	3937.2	3806.8	3600.1	3464.7	3393.4	3275.2	3075.9	2903.7
5°	5307.8	5261.1	5174.9	5115.9	4948.6	4655.7	4353.1	4232.5	3964.3	3513.9	3110.4
7.5°	6129.7	6095.3	6063.3	5984.5	5827.0	5561.3	5226.6	5101.1	4687.7	4047.9	3386.0
10°	6762.1	6735.0	6698.1	6695.7	6572.6	6333.9	6006.7	5876.3	5428.4	4628.7	3710.8
12.5°	7318.2	7296.1	7288.7	7357.6	7278.9	7101.7	6747.4	6584.9	6110.0	5221.7	4070.1
15°	7699.7	7694.7	7726.7	7862.1	7906.4	7825.2	7527.4	7352.7	6806.4	5817.2	4466.2
17.5°	7874.4	7889.1	7950.7	8184.4	8381.3	8450.2	8221.3	8073.7	7497.9	6420.1	4889.5
20°	8172.1	8167.2	8204.1	8425.6	8666.7	8912.8	8843.9	8718.4	8196.7	7057.4	5359.5
22.5°	9011.2	8939.9	8861.1	8895.6	8981.7	9269.6	9397.6	9333.6	8917.7	7712.0	5844.3
25°	10300.7	10226.8	9973.4	9727.3	9564.9	9695.3	9870.0	9902.0	9633.8	8383.7	6351.2
27.5°	11668.8	11602.4	11317.0	10947.8	10482.8	10256.4	10386.8	10450.8	10337.6	9183.5	6890.1
30°	12950.9	12862.3	12549.8	12092.1	11553.2	11206.2	11058.6	11102.9	11169.3	10130.9	7522.5
32.5°	14063.1	13996.7	13622.7	13140.4	12621.1	12259.4	11914.9	11988.7	12151.1	11289.9	8332.1
35°	15005.6	14971.2	14575.0	14095.1	13546.4	13361.8	13066.5	13081.3	13243.7	12690.0	9318.8
37.5°	15825.0	15766.0	15406.7	14961.3	14525.8	14496.2	14415.0	14422.4	14506.1	14321.5	10453.2
40°	16341.8	16287.6	16031.7	15756.1	15446.1	15451.0	15871.8	15903.8	15807.8	15923.5	11651.6
42.5°	16536.2	16496.8	16359.0	16361.5	16329.5	16474.7	17264.6	17323.6	16979.1	17180.9	12675.3
45°	16199.1	16181.8	16191.7	16546.0	16929.9	17377.8	18403.9	18507.2	18020.0	18015.1	13475.0
47.5°	15111.4	15077.0	15364.9	15967.8	16856.1	17727.2	19092.9	19252.8	18748.4	18492.5	13977.0
50°	12980.4	13078.8	13534.1	14439.6	15790.6	17247.3	19085.5	19363.6	18775.5	18450.6	13893.3
52.5°	9402.5	9382.8	10379.4	11624.5	13268.3	15711.8	18071.7	18477.7	18118.4	18039.7	13706.3
55°	5115.9	5295.5	5967.3	7616.0	9668.3	12805.7	15756.1	16642.0	17057.9	17889.6	14043.5
57.5°	1880.0	1958.8	2379.5	3545.9	5118.3	7963.0	12035.5	13371.7	14656.2	17471.3	13986.9
60°	757.9	772.7	940.0	1304.2	2150.7	4052.8	7219.8	8405.9	9616.6	13374.1	10733.8
62.5°	551.2	570.9	637.3	762.8	1087.6	1771.7	3112.8	3619.8	3956.9	6624.3	5288.1
65°	445.4	460.2	514.3	570.9	718.5	952.3	1004.0	967.1	962.1	1712.7	1213.1
67.5°	369.1	383.9	423.2	462.6	516.8	474.9	344.5	361.7	295.3	292.8	238.7
70°	270.7	287.9	327.3	369.1	310.1	128.0	199.3	295.3	223.9	187.0	182.1
72.5°	204.2	216.5	253.5	241.2	91.0	49.2	132.9	214.1	172.3	137.8	135.3
75°	152.6	159.9	128.0	39.4	9.8	12.3	49.2	88.6	96.0	78.7	78.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.4	9.8	12.3	14.8
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°	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6	2748.6
2.5°	2805.2	2701.9	2554.2	2431.2	2337.7	2246.7	2177.8	2108.9	2106.4	2071.9	2064.6
5°	2923.4	2736.3	2465.7	2271.3	2153.1	2081.8	2032.6	2008.0	1995.7	1983.4	1978.4
7.5°	3093.2	2824.9	2450.9	2244.2	2145.8	2099.0	2064.6	2049.8	2042.4	2032.6	2030.1
10°	3302.3	2952.9	2505.0	2295.9	2209.7	2165.5	2128.5	2106.4	2094.1	2076.9	2071.9
12.5°	3553.3	3110.4	2591.2	2382.0	2291.0	2231.9	2182.7	2150.7	2133.5	2111.3	2106.4
15°	3824.0	3280.2	2687.1	2460.7	2352.5	2276.2	2214.7	2165.5	2133.5	2106.4	2099.0
17.5°	4104.5	3452.4	2773.3	2514.9	2382.0	2291.0	2202.4	2135.9	2096.6	2062.1	2052.3
20°	4419.5	3629.6	2829.9	2524.7	2372.2	2251.6	2148.2	2064.6	2025.2	1978.4	1968.6
22.5°	4749.2	3794.5	2854.5	2502.6	2318.0	2177.8	2067.0	1980.9	1924.3	1875.1	1860.3
25°	5069.1	3942.1	2842.2	2441.1	2236.8	2074.4	1961.2	1872.6	1811.1	1761.9	1749.6
27.5°	5408.7	4065.1	2797.9	2350.0	2126.1	1961.2	1852.9	1776.7	1720.1	1665.9	1653.6
30°	5790.1	4178.3	2726.5	2239.3	1995.7	1845.6	1761.9	1710.2	1648.7	1592.1	1574.9
32.5°	6250.3	4279.2	2623.2	2106.4	1880.0	1744.7	1697.9	1658.5	1587.2	1528.1	1515.8
35°	6776.9	4362.9	2492.7	1968.6	1766.8	1680.7	1670.8	1619.2	1525.7	1456.8	1442.0
37.5°	7387.1	4444.1	2337.7	1833.3	1683.1	1651.2	1653.6	1565.0	1451.8	1368.2	1358.3
40°	8044.2	4525.3	2165.5	1715.1	1606.9	1633.9	1611.8	1486.3	1301.7	1220.5	1210.7
42.5°	8728.3	4613.9	1990.7	1604.4	1542.9	1567.5	1535.5	1328.8	1195.9	1154.1	1149.2
45°	9345.9	4719.7	1801.3	1493.7	1478.9	1471.5	1417.4	1203.3	1146.7	1117.2	1114.7
47.5°	9791.3	4702.5	1599.5	1387.9	1410.0	1385.4	1220.5	1144.2	1097.5	1058.1	1048.3
50°	9710.1	4402.3	1390.3	1269.7	1321.4	1299.3	1097.5	1075.3	1033.5	991.7	976.9
52.5°	9503.4	3993.8	1208.2	1144.2	1225.4	1173.8	1013.8	991.7	954.8	900.6	883.4
55°	9614.1	3609.9	1065.5	1043.4	1127.0	972.0	920.3	885.9	846.5	787.4	780.1
57.5°	9257.3	2945.5	856.3	871.1	996.6	829.3	807.1	753.0	686.5	647.2	642.3
60°	6407.8	1582.3	536.4	553.7	721.0	696.4	723.5	674.2	593.0	556.1	548.7
62.5°	2943.0	634.9	292.8	280.5	379.0	472.5	620.1	615.2	514.3	455.2	450.3
65°	713.6	290.4	209.2	196.9	214.1	283.0	403.6	484.8	415.9	347.0	339.6
67.5°	231.3	236.2	191.9	179.6	189.5	211.6	241.2	268.2	265.8	243.6	238.7
70°	184.6	214.1	177.2	162.4	162.4	169.8	162.4	130.4	113.2	123.0	128.0
72.5°	137.8	162.4	140.3	125.5	120.6	118.1	100.9	73.8	51.7	46.8	44.3
75°	81.2	91.0	86.1	73.8	68.9	61.5	49.2	32.0	17.2	12.3	7.4
77.5°	14.8	17.2	19.7	14.8	12.3	9.8	7.4	2.5	0.0	0.0	0.0
80°	0.0	2.5	2.5	2.5	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)