

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: P638767

Luminaire Tested: GWS-SA4F-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638767  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

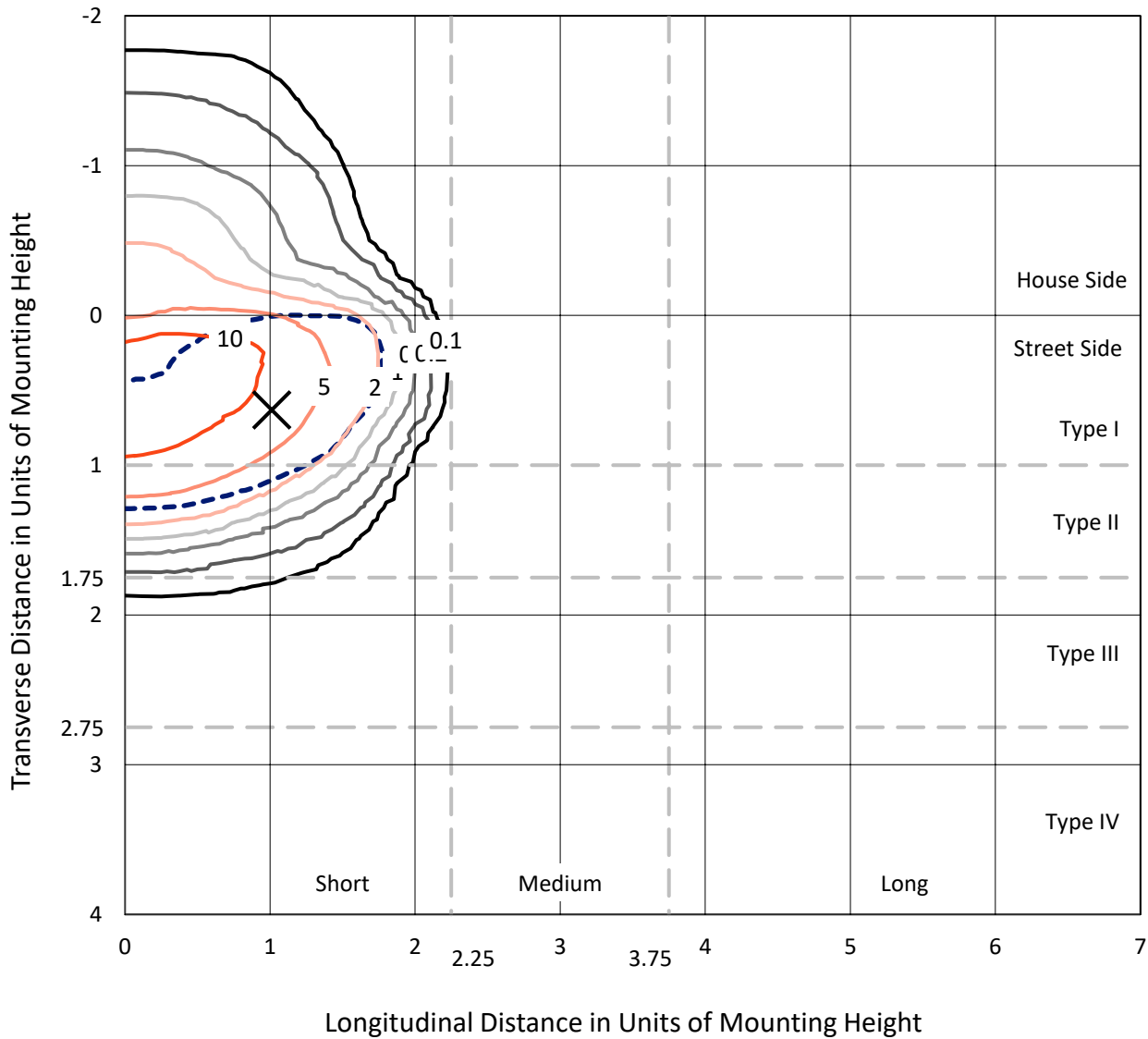
Lumens per Lamp: N/A  
Luminaire Lumens: 22808.2 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

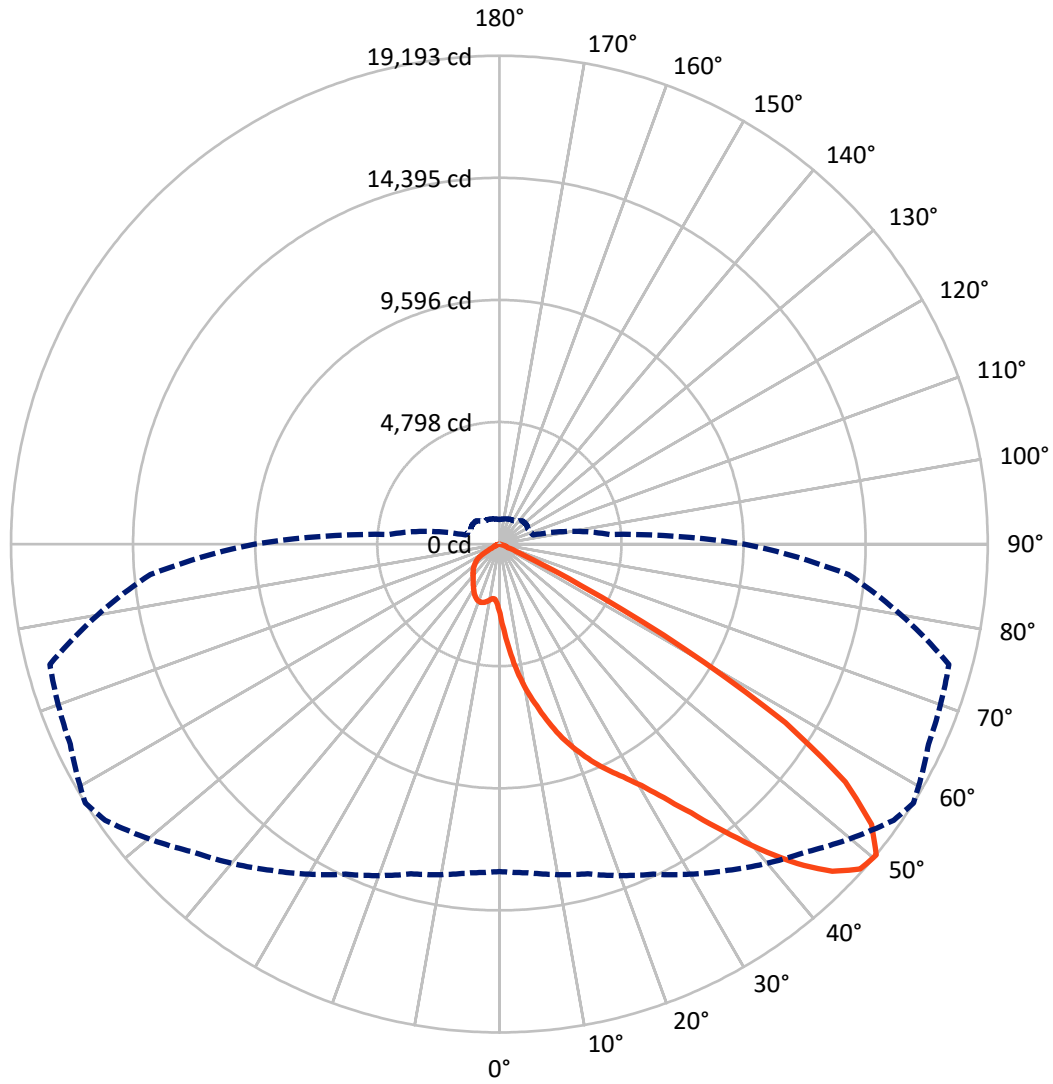
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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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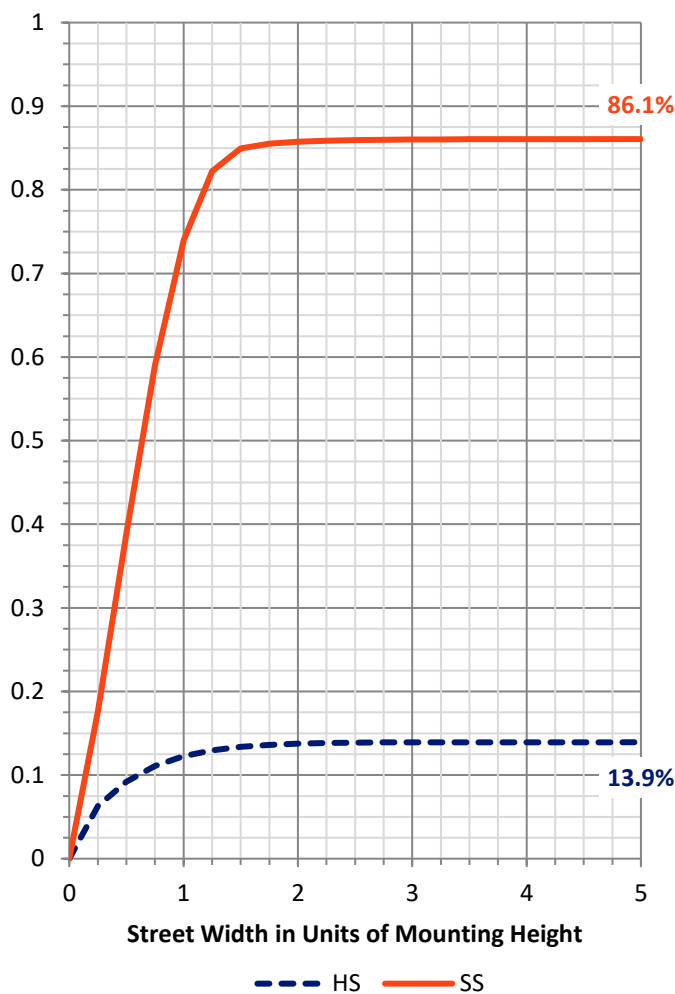
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3194.6	0.0	3194.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	19613.6	0.0	19613.6
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	22808.2	0.0	22808.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.5	1.5
10°-20°	1336.1	5.9
20°-30°	2703.7	11.9
30°-40°	4783.1	21.0
40°-50°	6972.7	30.6
50°-60°	5588.8	24.5
60°-70°	1006.9	4.4
70°-80°	79.3	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°	22808.2	100.0
0°-180°	22808.2	100.0

**Coefficient of Utilization**



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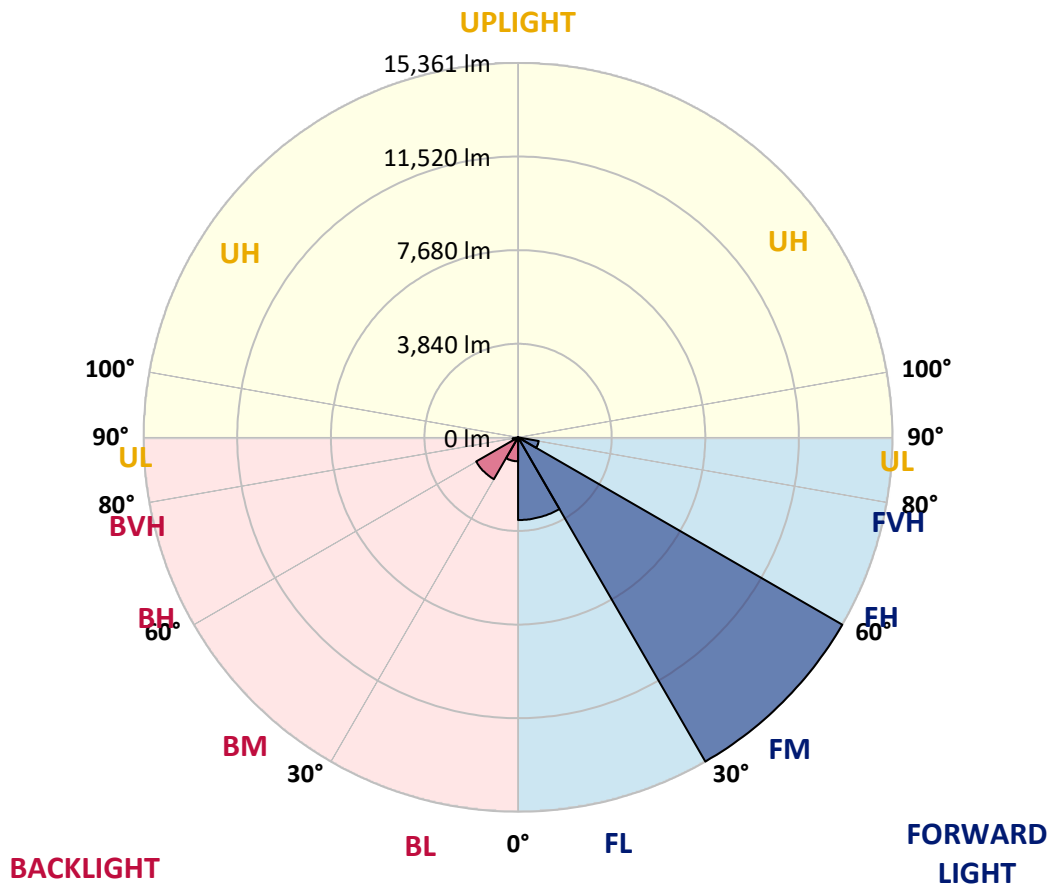
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3393.8	14.9			
FM (30°-60°)	15360.6	67.3			
FH (60°-80°)	859.2	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	983.5	4.3	B2/1000		
BM (30°-60°)	1984.0	8.7	B2/2500		
BH (60°-80°)	227.1	1.0	B1/500		G1/500
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: 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°	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	4031.7	3968.3	3931.7	3902.5	3773.2	3568.3	3434.2	3363.4	3246.4	3048.8	2878.1
5°	5261.0	5214.7	5129.3	5070.8	4904.9	4614.7	4314.7	4195.1	3929.3	3482.9	3082.9
7.5°	6075.6	6041.5	6009.8	5931.7	5775.6	5512.2	5180.5	5056.1	4646.4	4012.2	3356.1
10°	6702.5	6675.6	6639.0	6636.6	6514.7	6278.1	5953.7	5824.4	5380.5	4587.8	3678.1
12.5°	7253.7	7231.7	7224.4	7292.7	7214.7	7039.1	6687.8	6526.9	6056.1	5175.6	4034.2
15°	7631.7	7626.9	7658.6	7792.7	7836.6	7756.1	7461.0	7287.8	6746.4	5765.9	4426.8
17.5°	7804.9	7819.5	7880.5	8112.2	8307.3	8375.6	8148.8	8002.5	7431.7	6363.4	4846.4
20°	8100.0	8095.2	8131.7	8351.3	8590.3	8834.2	8765.9	8641.5	8124.4	6995.1	5312.2
22.5°	8931.7	8861.0	8783.0	8817.1	8902.5	9187.8	9314.7	9251.3	8839.1	7643.9	5792.7
25°	10209.8	10136.6	9885.4	9641.5	9480.5	9609.8	9783.0	9814.7	9548.8	8309.8	6295.1
27.5°	11565.9	11500.0	11217.1	10851.3	10390.3	10165.9	10295.2	10358.6	10246.4	9102.5	6829.3
30°	12836.6	12748.8	12439.1	11985.4	11451.3	11107.4	10961.0	11004.9	11070.8	10041.5	7456.1
32.5°	13939.1	13873.2	13502.5	13024.4	12509.8	12151.3	11809.8	11883.0	12043.9	11190.3	8258.6
35°	14873.2	14839.1	14446.4	13970.8	13426.9	13244.0	12951.3	12965.9	13126.9	12578.1	9236.6
37.5°	15685.4	15626.9	15270.8	14829.3	14397.6	14368.3	14287.9	14295.2	14378.1	14195.2	10361.0
40°	16197.6	16144.0	15890.3	15617.1	15309.8	15314.7	15731.8	15763.5	15668.4	15783.0	11548.8
42.5°	16390.3	16351.3	16214.7	16217.1	16185.4	16329.3	17112.3	17170.8	16829.3	17029.3	12563.5
45°	16056.2	16039.1	16048.8	16400.1	16780.5	17224.5	18241.5	18344.0	17861.0	17856.2	13356.1
47.5°	14978.1	14944.0	15229.3	15826.9	16707.4	17570.8	18924.5	19083.0	18583.0	18329.3	13853.7
50°	12865.9	12963.5	13414.7	14312.2	15651.3	17095.2	18917.1	19192.8	18609.8	18287.9	13770.8
52.5°	9319.5	9300.0	10287.8	11522.0	13151.3	15573.2	17912.3	18314.7	17958.6	17880.6	13585.4
55°	5070.8	5248.8	5914.7	7548.8	9583.0	12692.7	15617.1	16495.2	16907.4	17731.8	13919.6
57.5°	1863.4	1941.5	2358.5	3514.6	5073.2	7892.7	11929.3	13253.7	14526.9	17317.1	13863.5
60°	751.2	765.9	931.7	1292.7	2131.7	4017.1	7156.1	8331.7	9531.7	13256.1	10639.1
62.5°	546.3	565.9	631.7	756.1	1078.1	1756.1	3085.4	3587.8	3922.0	6565.9	5241.5
65°	441.5	456.1	509.8	565.9	712.2	943.9	995.1	958.5	953.7	1697.6	1202.4
67.5°	365.9	380.5	419.5	458.5	512.2	470.7	341.5	358.5	292.7	290.2	236.6
70°	268.3	285.4	324.4	365.9	307.3	126.8	197.6	292.7	222.0	185.4	180.5
72.5°	202.4	214.6	251.2	239.0	90.2	48.8	131.7	212.2	170.7	136.6	134.1
75°	151.2	158.5	126.8	39.0	9.8	12.2	48.8	87.8	95.1	78.0	78.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.9	7.3	9.8	12.2	14.6
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°	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4	2724.4
2.5°	2780.5	2678.1	2531.7	2409.8	2317.1	2226.8	2158.5	2090.3	2087.8	2053.7	2046.3
5°	2897.6	2712.2	2443.9	2251.2	2134.2	2063.4	2014.6	1990.3	1978.1	1965.9	1961.0
7.5°	3065.9	2800.0	2429.3	2224.4	2126.8	2080.5	2046.3	2031.7	2024.4	2014.6	2012.2
10°	3273.2	2926.8	2482.9	2275.6	2190.3	2146.3	2109.8	2087.8	2075.6	2058.5	2053.7
12.5°	3522.0	3082.9	2568.3	2361.0	2270.7	2212.2	2163.4	2131.7	2114.6	2092.7	2087.8
15°	3790.3	3251.2	2663.4	2439.0	2331.7	2256.1	2195.1	2146.3	2114.6	2087.8	2080.5
17.5°	4068.3	3422.0	2748.8	2492.7	2361.0	2270.7	2182.9	2117.1	2078.1	2043.9	2034.2
20°	4380.5	3597.6	2804.9	2502.4	2351.2	2231.7	2129.3	2046.3	2007.3	1961.0	1951.2
22.5°	4707.3	3761.0	2829.3	2480.5	2297.6	2158.5	2048.8	1963.4	1907.3	1858.5	1843.9
25°	5024.4	3907.3	2817.1	2419.5	2217.1	2056.1	1943.9	1856.1	1795.1	1746.3	1734.2
27.5°	5361.0	4029.3	2773.2	2329.3	2107.3	1943.9	1836.6	1761.0	1704.9	1651.2	1639.0
30°	5739.0	4141.5	2702.4	2219.5	1978.1	1829.3	1746.3	1695.1	1634.2	1578.1	1561.0
32.5°	6195.1	4241.5	2600.0	2087.8	1863.4	1729.3	1682.9	1643.9	1573.2	1514.6	1502.4
35°	6717.1	4324.4	2470.7	1951.2	1751.2	1665.9	1656.1	1604.9	1512.2	1443.9	1429.3
37.5°	7322.0	4404.9	2317.1	1817.1	1668.3	1636.6	1639.0	1551.2	1439.0	1356.1	1346.3
40°	7973.2	4485.4	2146.3	1700.0	1592.7	1619.5	1597.6	1473.2	1290.2	1209.8	1200.0
42.5°	8651.3	4573.2	1973.2	1590.2	1529.3	1553.7	1522.0	1317.1	1185.4	1143.9	1139.0
45°	9263.4	4678.1	1785.4	1480.5	1465.9	1458.5	1404.9	1192.7	1136.6	1107.3	1104.9
47.5°	9704.9	4661.0	1585.4	1375.6	1397.6	1373.2	1209.8	1134.2	1087.8	1048.8	1039.0
50°	9624.4	4363.4	1378.1	1258.5	1309.8	1287.8	1087.8	1065.9	1024.4	982.9	968.3
52.5°	9419.5	3958.6	1197.6	1134.2	1214.6	1163.4	1004.9	982.9	946.3	892.7	875.6
55°	9529.3	3578.1	1056.1	1034.2	1117.1	963.4	912.2	878.1	839.0	780.5	773.2
57.5°	9175.6	2919.5	848.8	863.4	987.8	822.0	800.0	746.3	680.5	641.5	636.6
60°	6351.2	1568.3	531.7	548.8	714.6	690.2	717.1	668.3	587.8	551.2	543.9
62.5°	2917.1	629.3	290.2	278.0	375.6	468.3	614.6	609.8	509.8	451.2	446.3
65°	707.3	287.8	207.3	195.1	212.2	280.5	400.0	480.5	412.2	343.9	336.6
67.5°	229.3	234.1	190.2	178.0	187.8	209.8	239.0	265.9	263.4	241.5	236.6
70°	182.9	212.2	175.6	161.0	161.0	168.3	161.0	129.3	112.2	122.0	126.8
72.5°	136.6	161.0	139.0	124.4	119.5	117.1	100.0	73.2	51.2	46.3	43.9
75°	80.5	90.2	85.4	73.2	68.3	61.0	48.8	31.7	17.1	12.2	7.3
77.5°	14.6	17.1	19.5	14.6	12.2	9.8	7.3	2.4	0.0	0.0	0.0
80°	0.0	2.4	2.4	2.4	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)