

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: P636233

Luminaire Tested: GWS-SA3F-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

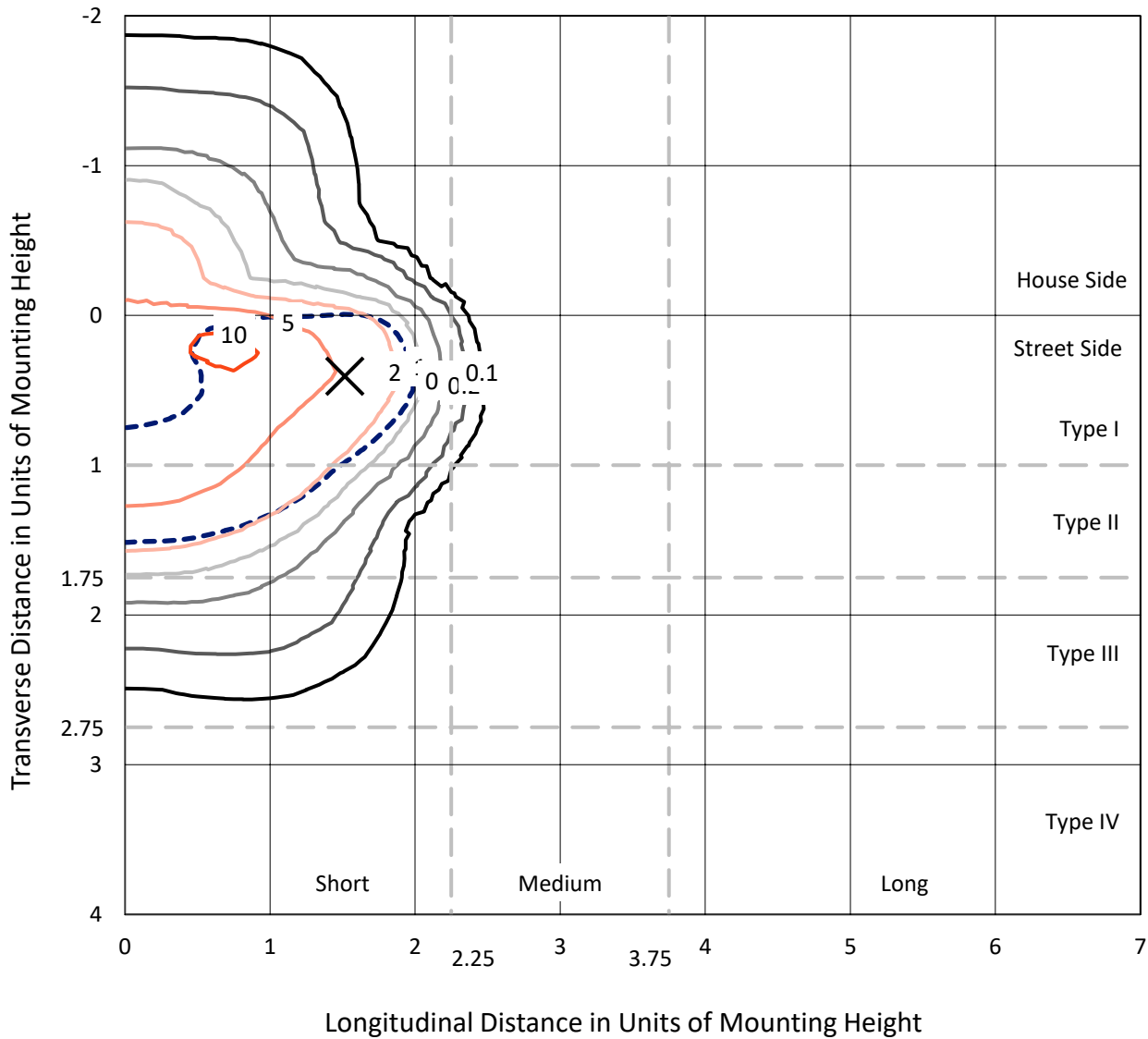
Lumens per Lamp: N/A  
Luminaire Lumens: 14324.6 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

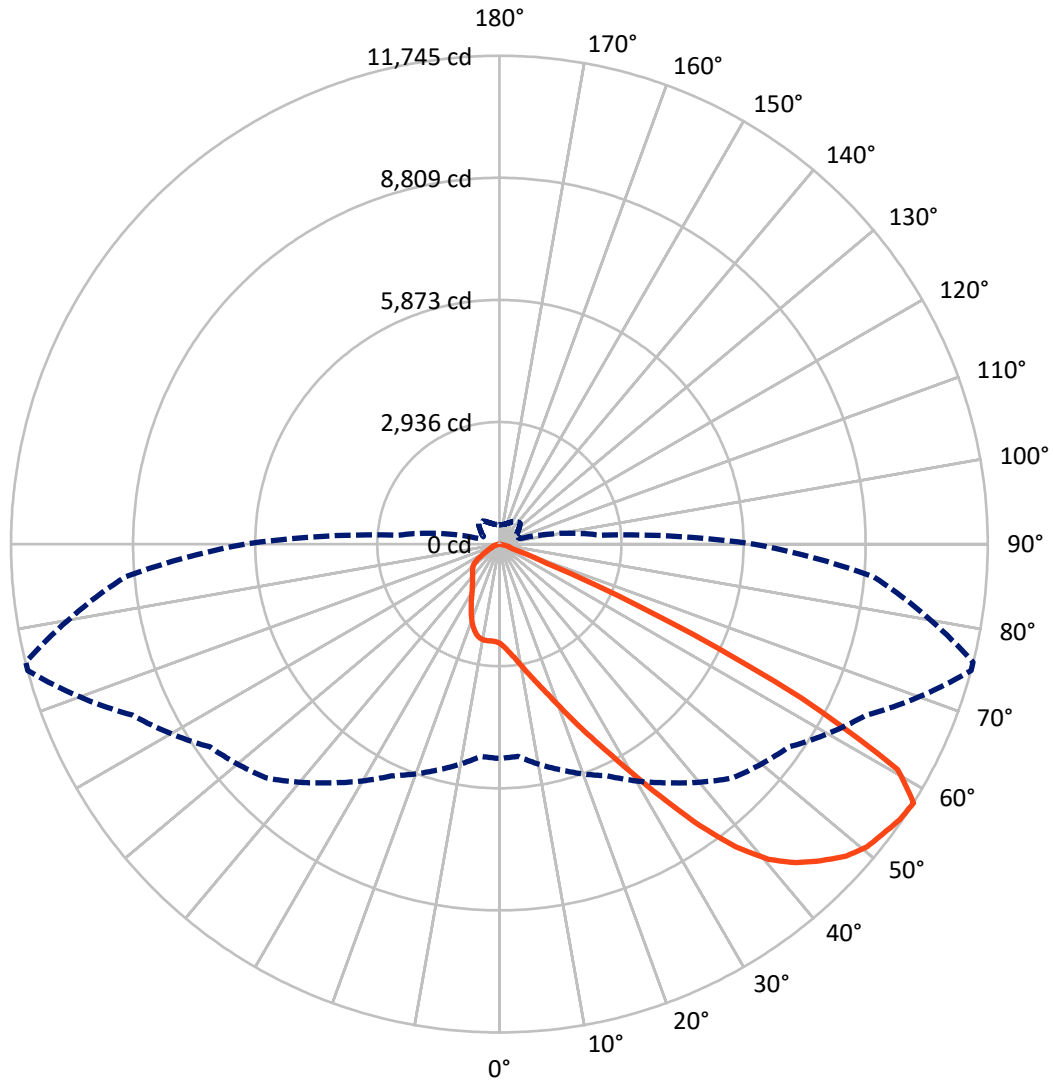
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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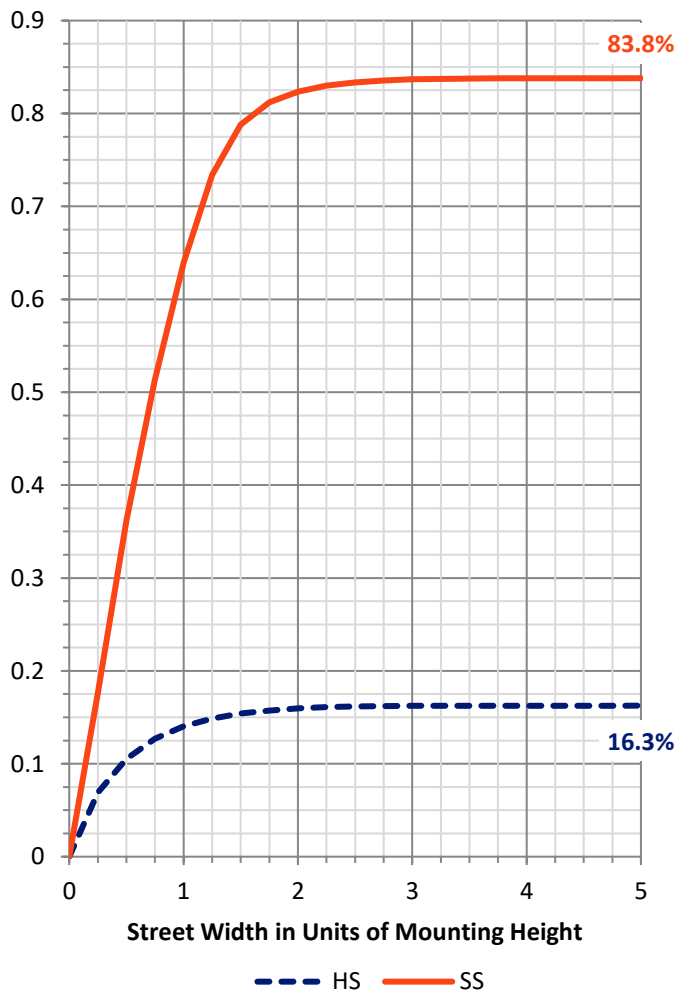
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2339.9	0.0	2339.9
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	11984.7	0.0	11984.7
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14324.6	0.0	14324.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.1	1.7
10°-20°	789.7	5.5
20°-30°	1446.2	10.1
30°-40°	2399.4	16.8
40°-50°	3664.5	25.6
50°-60°	4117.6	28.7
60°-70°	1518.8	10.6
70°-80°	145.2	1.0
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°	14324.6	100.0
0°-180°	14324.6	100.0

**Coefficient of Utilization**



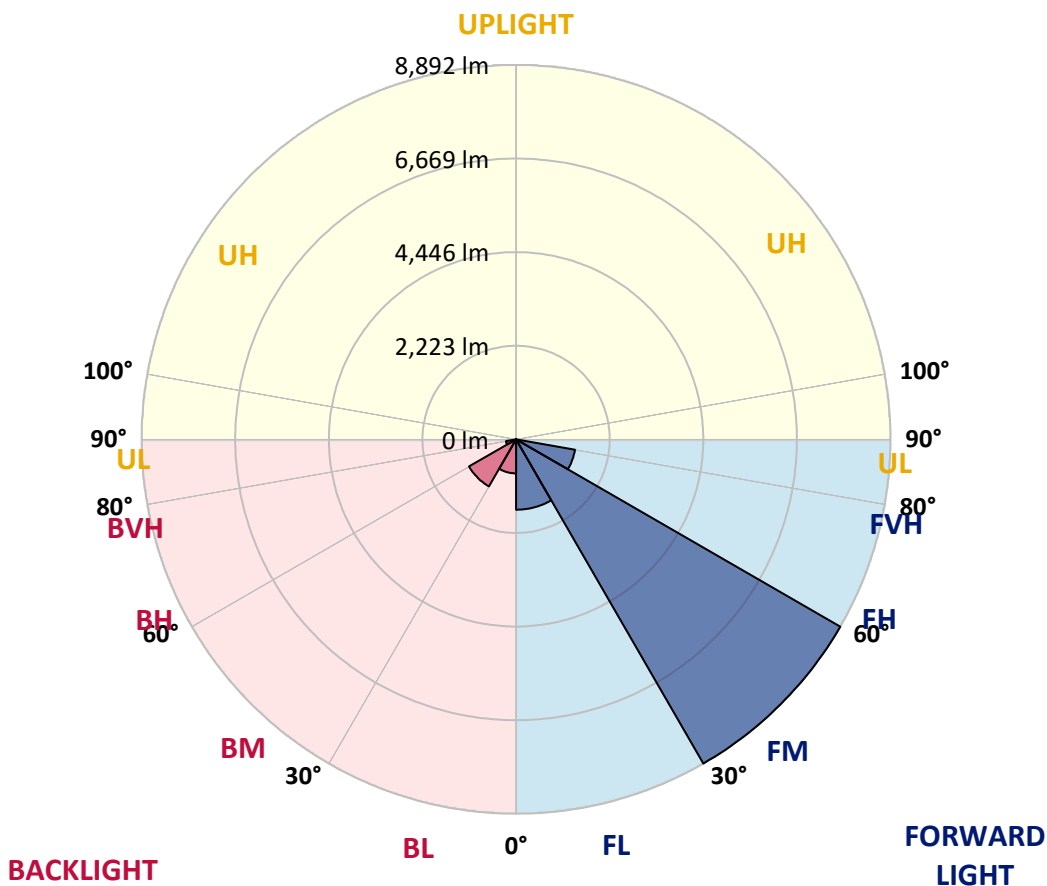
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.7	11.7			
FM (30°-60°)	8892.0	62.1			
FH (60°-80°)	1420.9	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	807.4	5.6	B2/1000		
BM (30°-60°)	1289.4	9.0	B2/2500		
BH (60°-80°)	243.0	1.7	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°	65°	75°	76°	85°
0°	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1
2.5°	2669.2	2696.9	2688.2	2670.9	2660.6	2624.3	2601.8	2536.1	2489.4	2484.2	2441.0
5°	3006.3	3001.1	2994.2	2973.5	2956.2	2899.1	2831.7	2721.1	2622.5	2610.4	2518.8
7.5°	3191.3	3194.7	3198.2	3194.7	3182.6	3139.4	3065.1	2935.4	2785.0	2774.7	2629.4
10°	3267.4	3274.3	3291.6	3324.4	3353.8	3350.3	3307.1	3174.0	2989.0	2971.7	2776.4
12.5°	3303.7	3312.3	3340.0	3402.2	3481.7	3544.0	3550.9	3431.6	3227.6	3199.9	2951.0
15°	3353.8	3362.4	3397.0	3478.3	3594.1	3716.8	3796.4	3720.3	3492.1	3462.7	3142.9
17.5°	3376.3	3388.4	3438.5	3545.7	3696.1	3884.5	4064.3	4057.4	3805.0	3782.5	3365.9
20°	3419.5	3428.1	3473.1	3588.9	3770.4	4041.8	4344.4	4453.3	4187.1	4154.2	3635.6
22.5°	3556.1	3559.5	3580.3	3652.9	3822.3	4155.9	4629.6	4914.9	4638.3	4595.0	3938.1
25°	3779.1	3777.3	3786.0	3798.1	3922.6	4271.8	4904.5	5435.2	5155.2	5108.5	4280.4
27.5°	4062.6	4062.6	4083.3	4048.8	4098.9	4415.2	5175.9	6033.4	5756.8	5691.1	4655.5
30°	4396.2	4394.5	4442.9	4387.6	4403.1	4641.7	5468.1	6685.1	6482.8	6401.6	5087.7
32.5°	4849.2	4838.8	4894.1	4818.0	4766.2	4984.0	5824.2	7366.2	7352.4	7227.9	5630.6
35°	5421.4	5404.1	5421.4	5347.0	5253.7	5462.9	6291.0	8045.6	8317.1	8185.7	6277.1
37.5°	5990.1	6045.5	6064.5	5936.6	5860.5	6069.7	6852.8	8654.2	9238.5	9101.9	6949.6
40°	6660.9	6643.6	6709.3	6565.8	6517.4	6749.1	7402.5	9107.1	9968.0	9838.4	7547.8
42.5°	7155.3	7186.4	7267.7	7188.2	7150.1	7368.0	7864.1	9371.6	10474.5	10346.6	7974.8
45°	7748.3	7770.8	7801.9	7736.2	7696.4	7910.8	8197.8	9487.4	10860.1	10721.8	8261.7
47.5°	8389.7	8407.0	8407.0	8272.1	8144.2	8232.3	8420.8	9553.1	11214.5	11081.3	8474.4
50°	8849.5	8858.2	8934.2	8839.1	8560.8	8424.2	8522.8	9617.1	11449.6	11325.1	8543.5
52.5°	8441.5	8431.2	8681.8	8878.9	8953.2	8681.8	8699.1	9710.4	11563.7	11456.5	8598.8
55°	7108.7	7091.4	7444.0	7922.9	8578.1	8925.6	8911.7	9765.8	11689.9	11624.2	8799.4
57.5°	5153.4	5124.0	5615.0	6147.5	7006.7	7948.8	8502.0	9734.6	11745.2	11740.0	9032.8
60°	3097.9	3073.7	3537.0	4097.2	4761.0	5708.4	6626.3	8719.9	11005.3	11015.6	8426.0
62.5°	1906.8	1929.3	2347.7	2632.9	2880.1	3165.4	3696.1	5865.7	8152.8	8220.2	5921.0
65°	1282.7	1300.0	1687.3	2046.8	2046.8	1673.4	1436.6	2804.0	4349.6	4235.5	2800.6
67.5°	860.9	879.9	1185.9	1606.0	1666.5	1166.9	582.6	836.7	1211.9	1175.6	693.2
70°	506.5	527.3	790.0	1101.2	1213.6	812.5	389.0	354.4	344.0	333.7	269.7
72.5°	226.5	235.1	402.8	560.1	511.7	342.3	274.9	283.5	268.0	262.8	219.6
75°	69.2	72.6	103.7	121.0	122.7	122.7	166.0	223.0	210.9	212.6	169.4
77.5°	17.3	17.3	27.7	25.9	13.8	12.1	31.1	50.1	51.9	46.7	34.6
80°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
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°	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1	2389.1
2.5°	2422.0	2377.0	2347.7	2306.2	2276.8	2245.7	2218.0	2195.5	2183.4	2180.0	2181.7
5°	2477.3	2406.4	2337.3	2257.8	2202.4	2150.6	2109.1	2076.2	2060.7	2055.5	2055.5
7.5°	2562.0	2463.5	2340.7	2216.3	2122.9	2041.7	1993.3	1957.0	1943.1	1939.7	1929.3
10°	2672.7	2537.8	2335.6	2141.9	2010.5	1925.8	1891.3	1880.9	1886.1	1887.8	1886.1
12.5°	2805.8	2615.6	2302.7	2033.0	1891.3	1839.4	1842.9	1870.5	1901.6	1917.2	1920.7
15°	2947.5	2686.5	2228.4	1903.4	1789.3	1787.5	1837.7	1901.6	1962.1	1988.1	1995.0
17.5°	3106.6	2743.5	2114.3	1765.1	1701.1	1751.2	1841.1	1939.7	2020.9	2064.1	2072.8
20°	3281.2	2790.2	1969.1	1635.4	1623.3	1713.2	1837.7	1958.7	2059.0	2107.4	2116.0
22.5°	3462.7	2823.1	1801.4	1516.1	1552.4	1670.0	1804.8	1922.4	2017.5	2072.8	2079.7
25°	3670.2	2826.5	1630.2	1415.9	1486.7	1611.2	1725.3	1822.1	1901.6	1950.0	1955.2
27.5°	3851.7	2785.0	1478.1	1334.6	1426.2	1538.6	1614.7	1668.3	1723.6	1751.2	1753.0
30°	4060.9	2712.4	1334.6	1268.9	1364.0	1448.7	1486.7	1498.8	1504.0	1509.2	1502.3
32.5°	4309.8	2624.3	1227.4	1204.9	1293.1	1350.2	1360.5	1336.3	1306.9	1265.5	1255.1
35°	4615.8	2544.7	1139.3	1142.7	1215.3	1249.9	1241.2	1189.4	1132.3	1082.2	1073.6
37.5°	4947.7	2477.3	1071.8	1082.2	1130.6	1154.8	1128.9	1071.8	1045.9	1002.7	1004.4
40°	5241.6	2422.0	1011.3	1021.7	1044.2	1066.6	1025.2	987.1	1035.5	1032.1	1035.5
42.5°	5450.8	2375.3	959.5	954.3	969.8	985.4	954.3	935.3	1016.5	994.0	1006.1
45°	5573.5	2332.1	916.2	885.1	909.3	937.0	916.2	892.0	919.7	816.0	807.3
47.5°	5656.5	2307.9	878.2	817.7	860.9	909.3	866.1	807.3	767.6	677.7	670.8
50°	5665.1	2295.8	833.3	748.6	803.9	855.7	805.6	724.3	667.3	627.5	622.4
52.5°	5710.1	2320.0	771.0	660.4	720.9	803.9	769.3	688.0	610.3	575.7	568.8
55°	5910.6	2422.0	667.3	539.4	627.5	764.1	739.9	613.7	539.4	518.6	513.4
57.5°	6118.1	2442.7	525.5	427.0	546.3	707.1	675.9	565.3	492.7	468.5	463.3
60°	5594.3	2012.3	394.2	352.7	482.3	653.5	625.8	535.9	451.2	421.8	416.6
62.5°	3675.3	1087.4	312.9	299.1	406.3	553.2	570.5	484.1	402.8	371.7	370.0
65°	1694.2	504.8	240.3	236.8	318.1	440.8	491.0	423.5	340.6	312.9	312.9
67.5°	461.6	250.7	188.4	174.6	216.1	295.6	357.9	316.4	242.0	209.2	207.5
70°	229.9	202.3	169.4	150.4	155.6	183.2	210.9	176.3	122.7	100.3	98.5
72.5°	188.4	166.0	143.5	127.9	117.6	112.4	108.9	88.2	57.0	43.2	41.5
75°	140.0	119.3	102.0	83.0	70.9	65.7	58.8	43.2	24.2	13.8	12.1
77.5°	31.1	29.4	27.7	20.7	19.0	15.6	12.1	8.6	3.5	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	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)