

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: P635590

Luminaire Tested: GWS-SA3E-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

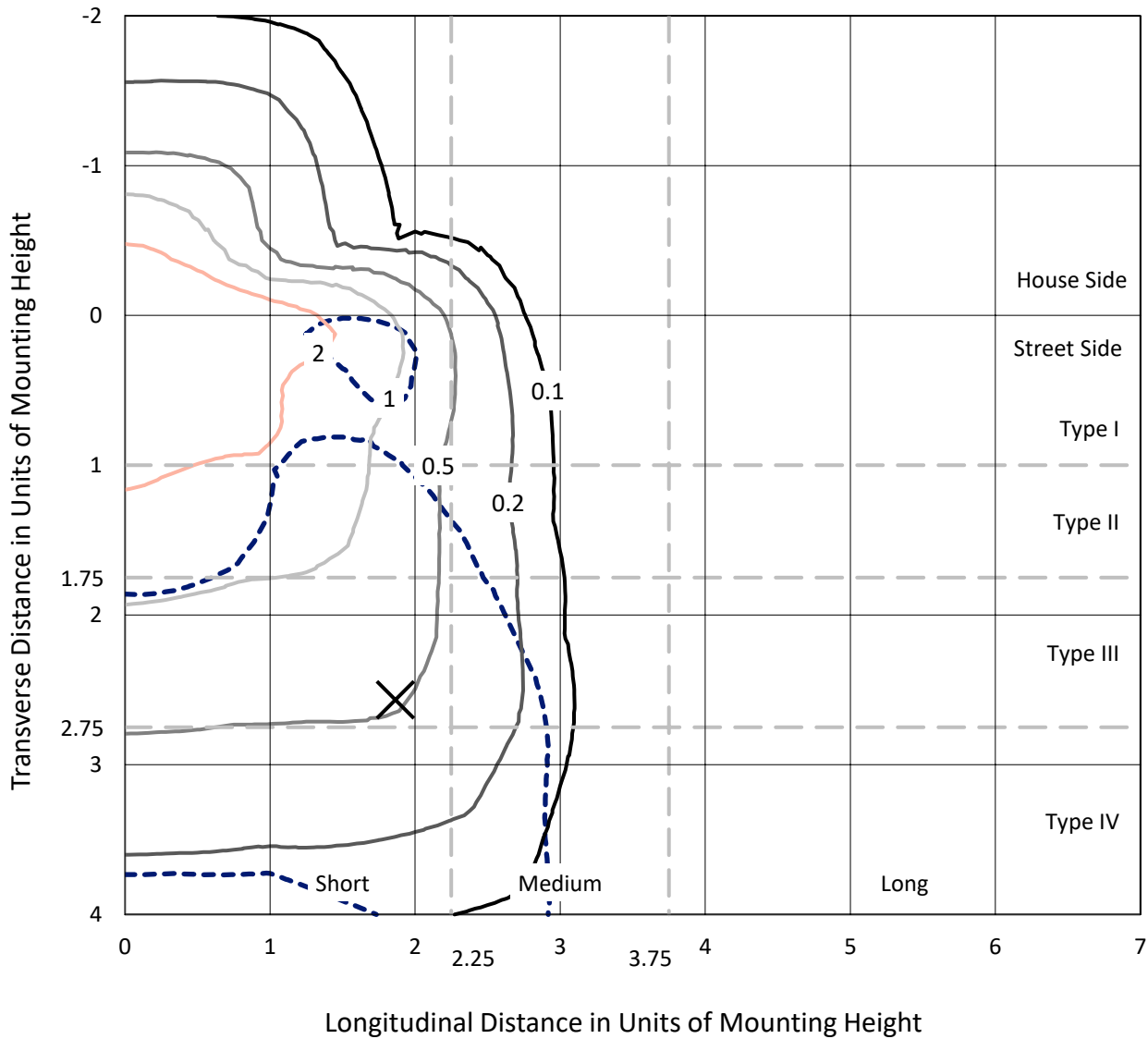
Lumens per Lamp: N/A  
Luminaire Lumens: 15646.7 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

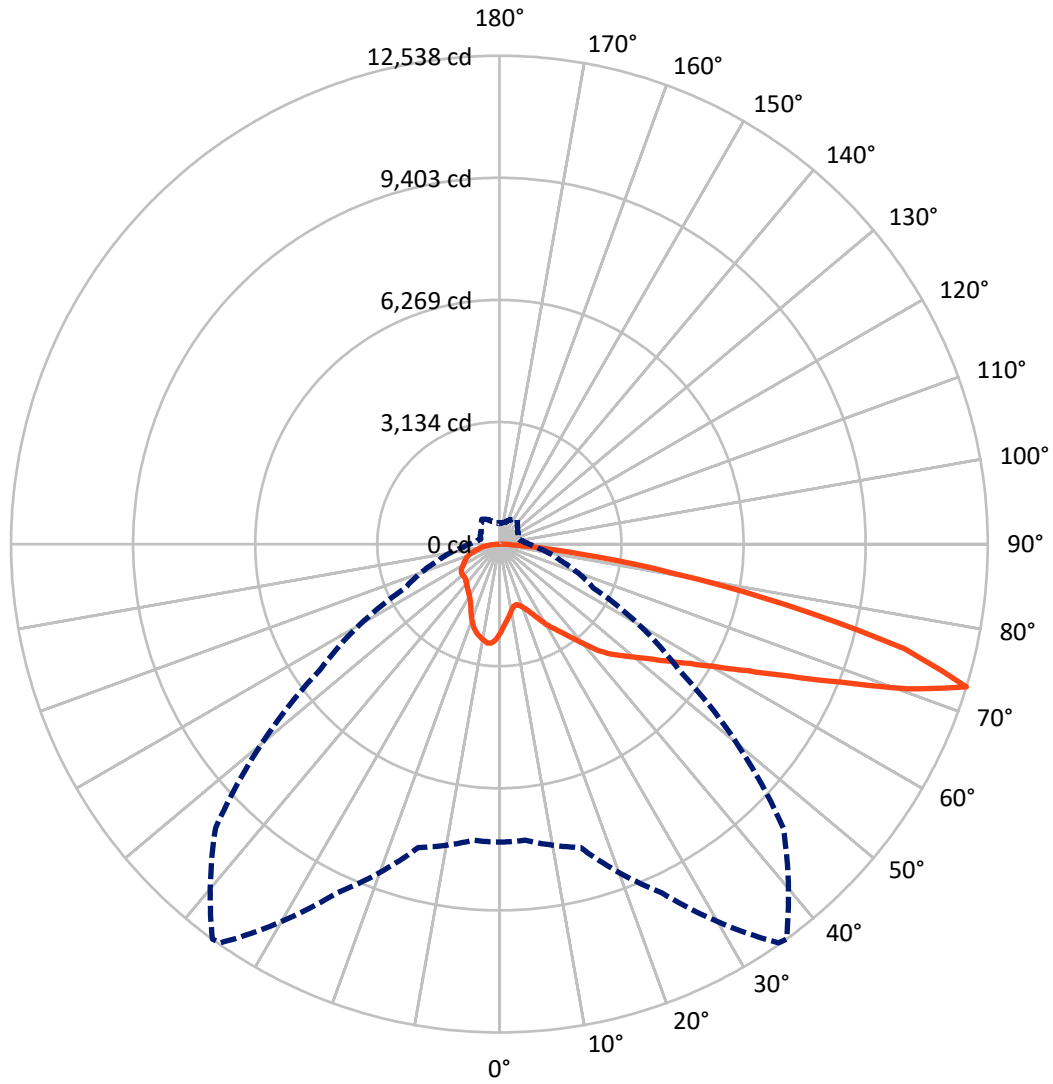
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P635590  
CATALOG NUMBER: GWS-SA3E-722-U-T4FT-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P635590

CATALOG NUMBER: GWS-SA3E-722-U-T4FT-W

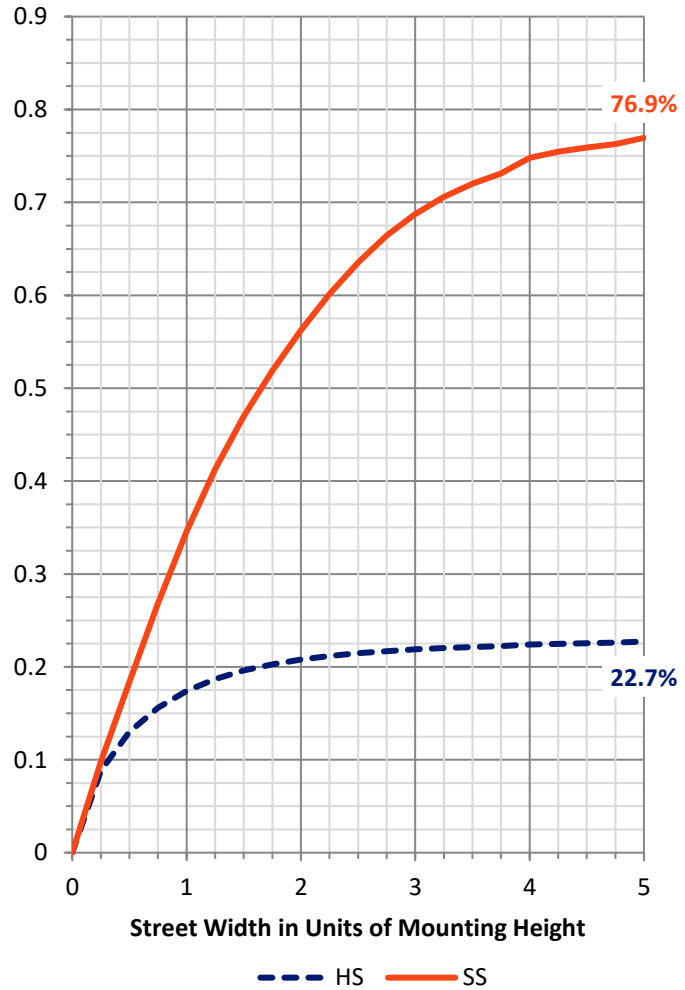
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3607.2	0.0	3607.2
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	12039.5	0.0	12039.5
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	15646.7	0.0	15646.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.0	1.4
10°-20°	603.9	3.9
20°-30°	1000.2	6.4
30°-40°	1497.8	9.6
40°-50°	2185.2	14.0
50°-60°	3110.2	19.9
60°-70°	3929.5	25.1
70°-80°	2800.1	17.9
80°-90°	305.7	2.0
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°	15646.7	100.0
0°-180°	15646.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P635590

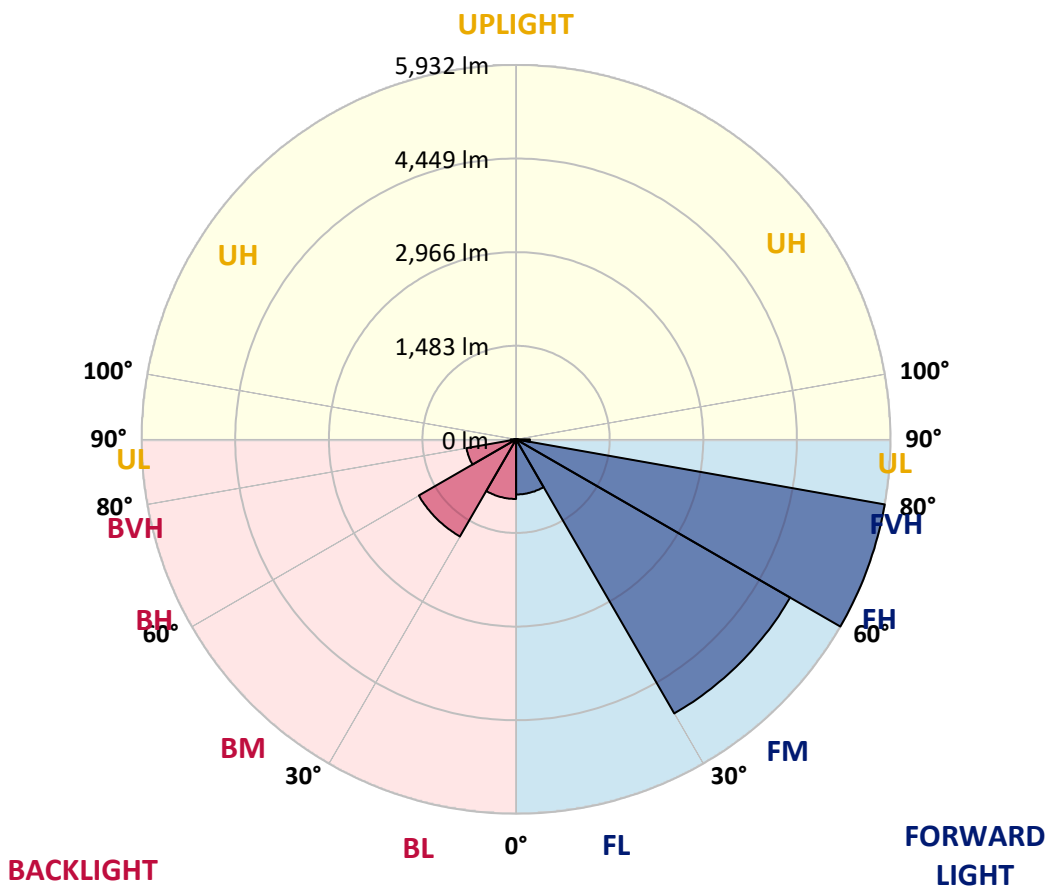
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	873.5	5.6			
FM (30°-60°)	5014.4	32.0			
FH (60°-80°)	5932.2	37.9			G3/7500
FVH (80°-90°)	219.4	1.4			G2/225
BL (0°-30°)	944.6	6.0	B2/1000		
BM (30°-60°)	1778.9	11.4	B2/2500		
BH (60°-80°)	797.5	5.1	B2/1000		G2/1000
BVH (80°-90°)	86.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0
2.5°	2089.1	2085.6	2078.6	2099.5	2120.4	2118.1	2147.1	2175.0	2205.2	2236.5	2278.4
5°	1921.9	1919.5	1913.7	1945.1	1976.4	1975.3	2022.9	2068.2	2129.7	2197.1	2280.7
7.5°	1754.6	1748.8	1757.0	1796.4	1840.6	1845.2	1910.2	1984.6	2074.0	2175.0	2293.4
10°	1607.2	1606.0	1609.5	1653.6	1719.8	1724.4	1808.1	1911.4	2029.8	2164.6	2322.5
12.5°	1568.8	1566.5	1557.2	1579.3	1629.2	1636.2	1727.9	1854.5	1999.7	2170.4	2362.0
15°	1631.5	1625.7	1593.2	1582.8	1607.2	1613.0	1690.8	1820.8	1982.2	2180.8	2411.9
17.5°	1739.5	1736.1	1674.5	1631.5	1647.8	1652.4	1710.5	1815.0	1977.6	2201.7	2473.4
20°	1897.5	1882.4	1786.0	1721.0	1721.0	1727.9	1762.8	1840.6	1983.4	2227.3	2543.1
22.5°	2106.5	2076.3	1940.4	1852.2	1829.0	1838.2	1853.3	1904.4	2007.8	2270.2	2630.2
25°	2341.1	2313.2	2151.8	2027.5	1995.0	1998.5	1985.7	1995.0	2061.2	2329.4	2738.2
27.5°	2590.7	2572.1	2400.3	2242.4	2191.3	2191.3	2146.0	2123.9	2135.5	2396.8	2859.0
30°	2813.7	2788.1	2643.0	2470.0	2402.6	2402.6	2316.7	2269.1	2241.2	2479.2	3020.4
32.5°	2931.0	2915.9	2819.5	2687.1	2604.7	2591.9	2517.6	2461.8	2396.8	2601.2	3238.7
35°	3084.3	3080.8	3022.7	2919.4	2814.8	2796.3	2745.2	2701.0	2588.4	2753.3	3529.0
37.5°	3277.0	3271.2	3261.9	3200.4	3075.0	3071.5	3026.2	2972.8	2826.5	2972.8	3880.9
40°	3493.0	3482.6	3470.9	3469.8	3394.3	3381.5	3378.0	3317.7	3113.3	3237.5	4247.8
42.5°	3790.3	3754.3	3645.1	3693.9	3749.6	3738.0	3782.2	3691.6	3470.9	3552.2	4595.0
45°	4156.1	4067.8	3851.8	3865.8	4006.3	4029.5	4182.8	4160.7	3864.6	3915.7	4960.8
47.5°	4375.6	4298.9	4098.0	4086.4	4261.7	4290.8	4624.1	4665.9	4288.5	4353.5	5412.5
50°	4555.5	4502.1	4337.2	4353.5	4539.3	4568.3	5061.8	5151.3	4687.9	4801.7	5937.4
52.5°	4772.7	4696.1	4568.3	4645.0	4872.6	4907.4	5548.4	5644.8	5047.9	5294.1	6480.9
55°	4894.6	4863.3	4865.6	4982.9	5268.5	5316.2	6058.2	6041.9	5377.7	5715.6	6889.6
57.5°	5175.6	5164.0	5270.9	5315.0	5730.7	5792.3	6568.0	6428.6	5677.3	6041.9	7085.9
60°	5671.5	5642.5	5735.4	5802.7	6302.0	6389.1	7137.0	6807.2	5880.5	6284.6	7019.7
62.5°	6368.2	6332.2	6335.7	6442.6	7067.3	7159.0	7769.9	7123.0	5943.2	6321.8	6600.5
65°	7234.5	7182.3	7123.0	7268.2	8083.4	8160.0	8458.5	7353.0	5793.4	5964.1	5724.9
67.5°	8148.4	8105.5	8035.8	8340.0	9399.1	9445.5	9230.7	7333.2	5318.5	5007.3	4015.6
70°	8201.8	8212.3	8542.1	9642.9	11116.5	11128.2	9961.1	6936.1	4307.0	3245.7	2000.8
72.5°	7651.4	7634.0	8063.6	9881.0	12498.4	12537.9	10306.0	5619.2	2661.6	1618.8	938.3
75°	6215.0	6245.1	6696.9	8645.4	10712.4	10747.3	8401.6	3313.0	1264.6	792.0	600.4
77.5°	2675.5	2843.9	3734.5	6090.7	7672.3	7564.3	4330.3	1342.4	674.7	564.4	459.9
80°	772.2	838.4	1330.8	2896.1	4597.3	4516.1	1714.0	502.8	470.3	423.9	329.8
82.5°	249.7	276.4	487.7	1153.1	2060.0	2057.7	650.3	297.3	307.7	288.0	212.5
85°	69.7	80.1	149.8	349.5	637.5	624.7	188.1	140.5	163.7	166.1	105.7
87.5°	0.0	0.0	1.2	2.3	2.3	2.3	4.6	20.9	47.6	60.4	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P635590  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0	2290.0
2.5°	2303.9	2300.4	2348.0	2385.2	2420.0	2443.2	2450.2	2454.9	2464.2	2468.8	2464.2
5°	2320.2	2337.6	2416.5	2474.6	2521.1	2548.9	2550.1	2547.8	2554.7	2548.9	2545.4
7.5°	2355.0	2388.7	2488.5	2550.1	2580.3	2581.4	2553.6	2521.1	2504.8	2490.9	2486.2
10°	2401.4	2451.4	2560.5	2601.2	2591.9	2548.9	2487.4	2436.3	2407.2	2386.3	2381.7
12.5°	2465.3	2521.1	2624.4	2623.2	2565.2	2488.5	2416.5	2355.0	2313.2	2288.8	2280.7
15°	2525.7	2596.5	2670.9	2616.3	2524.5	2431.6	2338.7	2256.3	2200.5	2162.2	2155.3
17.5°	2600.0	2675.5	2704.5	2594.2	2473.4	2353.8	2229.6	2121.6	2046.1	2000.8	1997.3
20°	2685.9	2753.3	2720.8	2555.9	2407.2	2250.5	2082.1	1961.3	1880.0	1835.9	1839.4
22.5°	2785.8	2834.6	2725.4	2503.6	2315.5	2104.2	1916.0	1799.9	1745.3	1722.1	1723.3
25°	2892.6	2924.0	2717.3	2432.8	2175.0	1925.3	1745.3	1691.9	1687.3	1681.5	1683.8
27.5°	3019.2	3012.3	2692.9	2332.9	1985.7	1717.5	1625.7	1639.7	1658.3	1655.9	1658.3
30°	3188.8	3122.6	2661.6	2194.7	1760.4	1543.3	1554.9	1594.4	1618.8	1621.1	1628.1
32.5°	3382.7	3244.5	2611.6	2006.6	1545.6	1445.7	1488.7	1536.3	1565.4	1571.2	1580.4
35°	3613.8	3383.9	2523.4	1772.1	1391.2	1387.7	1427.2	1459.7	1491.0	1493.4	1493.4
37.5°	3879.7	3523.2	2382.9	1513.1	1295.9	1337.7	1374.9	1381.9	1390.0	1383.0	1386.5
40°	4123.6	3657.9	2183.1	1277.4	1218.1	1293.6	1325.0	1301.7	1276.2	1258.8	1262.3
42.5°	4327.9	3749.6	1918.4	1112.5	1139.2	1254.1	1278.5	1230.9	1181.0	1148.5	1153.1
45°	4557.9	3834.4	1607.2	1001.0	1071.8	1226.3	1242.5	1181.0	1117.1	1068.3	1061.4
47.5°	4874.9	4007.4	1330.8	923.2	1024.2	1211.2	1237.9	1154.3	1070.7	997.5	989.4
50°	5266.2	4252.5	1099.7	872.1	1002.1	1203.0	1236.7	1125.2	1025.4	939.4	933.6
52.5°	5693.6	4491.7	929.0	832.6	980.1	1178.7	1230.9	1092.7	977.8	884.9	877.9
55°	5978.1	4585.7	814.0	795.4	944.1	1140.3	1207.7	1061.4	905.8	821.0	810.5
57.5°	6061.7	4465.0	733.9	761.8	897.6	1086.9	1163.6	995.2	861.6	794.3	786.2
60°	5917.7	4160.7	684.0	733.9	846.5	1018.4	1086.9	956.9	826.8	766.4	760.6
62.5°	5511.2	3691.6	645.6	704.9	794.3	946.4	1038.1	910.4	788.5	740.9	732.7
65°	4693.7	3027.4	614.3	674.7	744.4	877.9	984.7	864.0	746.7	710.7	701.4
67.5°	3282.8	2126.2	580.6	638.7	694.4	811.7	929.0	821.0	703.7	677.0	667.7
70°	1604.8	1127.6	540.0	596.9	641.0	744.4	873.3	768.7	646.8	631.7	618.9
72.5°	764.1	630.6	492.4	540.0	567.8	654.9	780.4	693.3	579.5	546.9	524.9
75°	512.1	448.2	429.7	472.6	479.6	549.3	668.9	598.0	510.9	473.8	455.2
77.5°	387.9	342.6	361.1	399.5	385.5	451.7	550.4	533.0	461.0	427.3	418.0
80°	272.9	249.7	286.8	310.1	299.6	384.4	495.8	456.4	379.7	342.6	335.6
82.5°	171.9	167.2	211.3	214.8	218.3	304.2	407.6	358.8	295.0	242.7	225.3
85°	85.9	95.2	126.6	126.6	125.4	156.8	232.2	202.1	159.1	126.6	123.1
87.5°	29.0	40.6	54.6	44.1	33.7	26.7	30.2	37.2	39.5	38.3	38.3
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)