

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: P640857

Luminaire Tested: GWS-SA5E-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640857  
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-SA5E-760-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

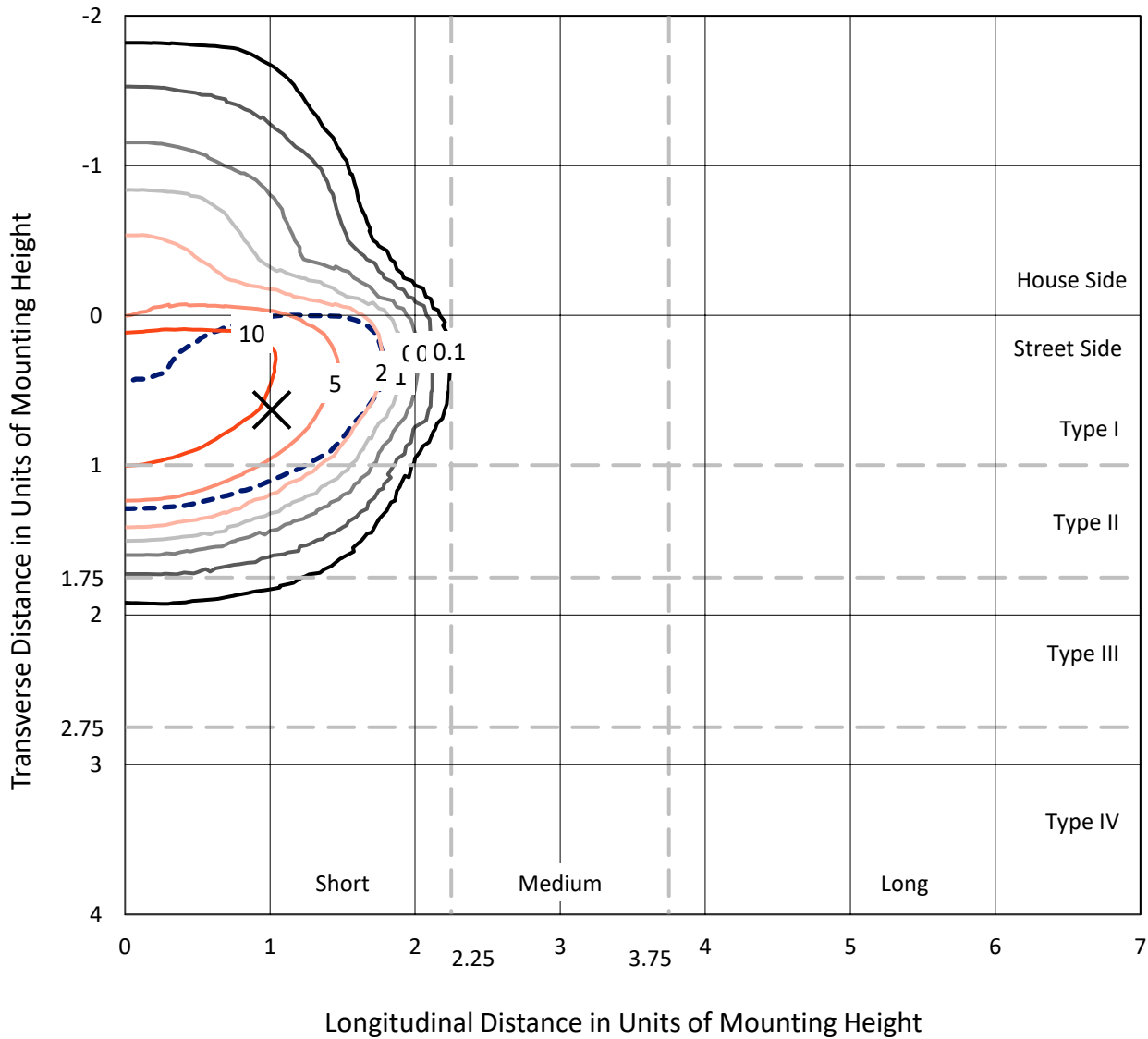
Lumens per Lamp: N/A  
Luminaire Lumens: 25389.1 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

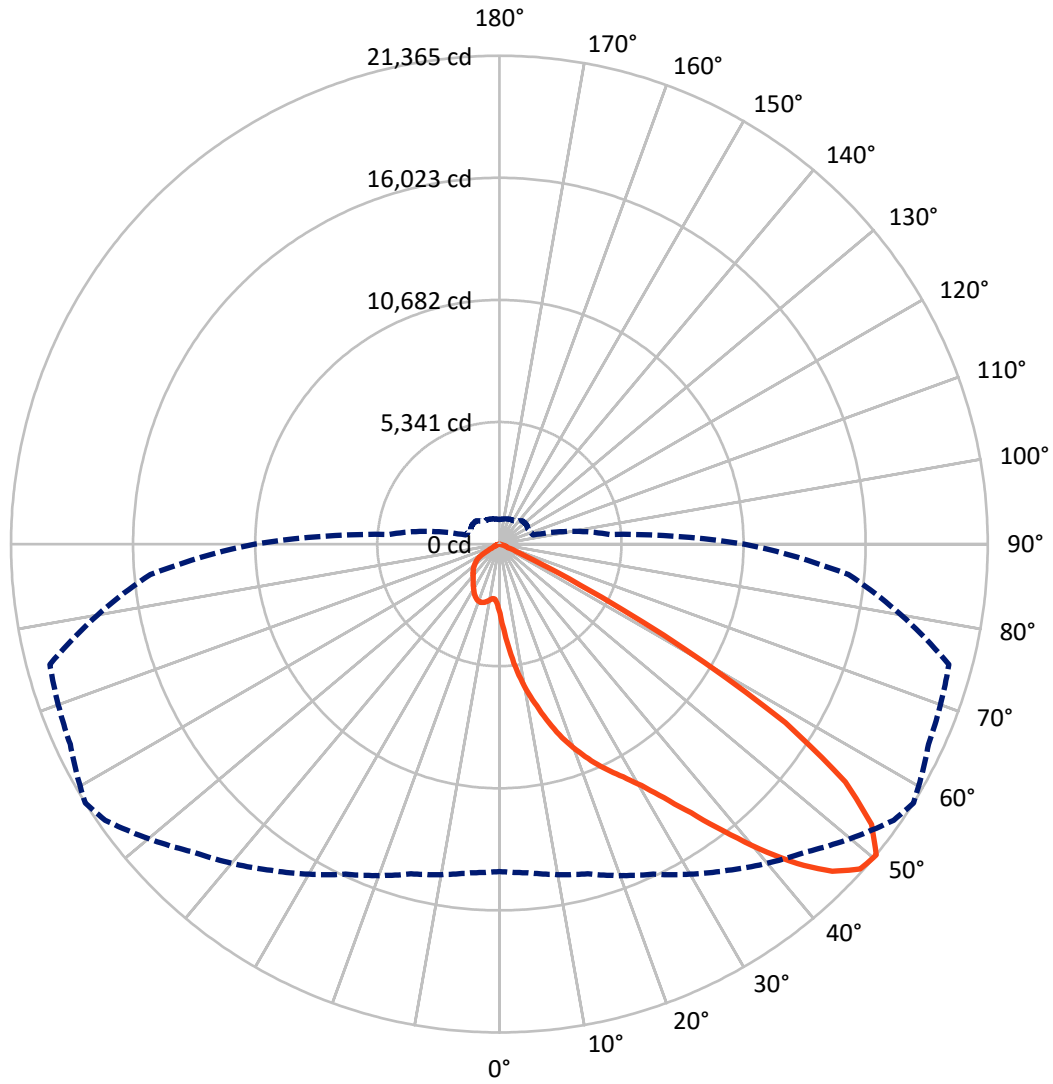
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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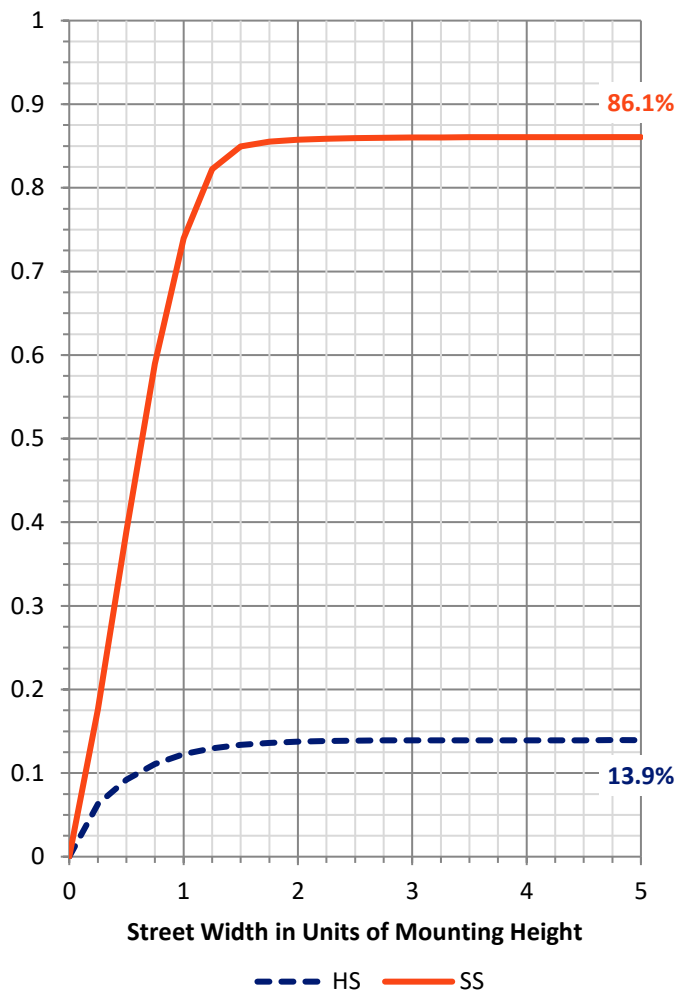
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3556.1	0.0	3556.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	21833.0	0.0	21833.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	25389.1	0.0	25389.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.7	1.5
10°-20°	1487.3	5.9
20°-30°	3009.6	11.9
30°-40°	5324.3	21.0
40°-50°	7761.7	30.6
50°-60°	6221.2	24.5
60°-70°	1120.8	4.4
70°-80°	88.3	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°	25389.1	100.0
0°-180°	25389.1	100.0

**Coefficient of Utilization**



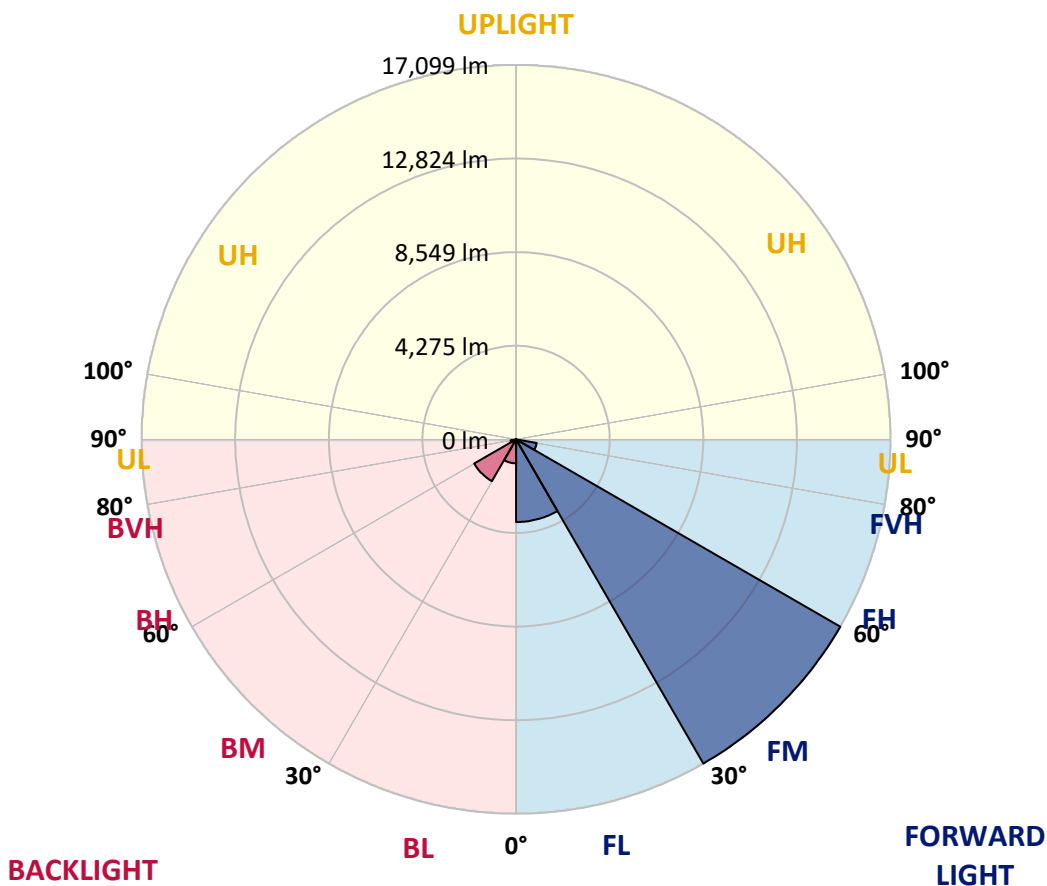
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3777.8	14.9			
FM (30°-60°)	17098.8	67.3			
FH (60°-80°)	956.4	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1094.8	4.3	B3/2500		
BM (30°-60°)	2208.5	8.7	B2/2500		
BH (60°-80°)	252.8	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: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7
2.5°	4487.9	4417.3	4376.6	4344.0	4200.1	3972.1	3822.8	3744.0	3613.7	3393.8	3203.7
5°	5856.3	5804.7	5709.7	5644.5	5459.9	5136.8	4802.9	4669.8	4373.9	3877.1	3431.8
7.5°	6763.1	6725.1	6689.8	6602.9	6429.2	6136.0	5766.7	5628.2	5172.1	4466.2	3735.9
10°	7460.9	7431.0	7390.3	7387.6	7251.8	6988.5	6627.4	6483.5	5989.3	5107.0	4094.3
12.5°	8074.5	8050.1	8041.9	8117.9	8031.0	7835.6	7444.6	7265.4	6741.4	5761.3	4490.7
15°	8495.3	8489.9	8525.2	8674.5	8723.4	8633.8	8305.3	8112.5	7509.8	6418.3	4927.8
17.5°	8688.1	8704.4	8772.3	9030.2	9247.4	9323.4	9070.9	8908.0	8272.7	7083.5	5394.8
20°	9016.6	9011.2	9051.9	9296.3	9562.3	9833.8	9757.8	9619.3	9043.8	7786.7	5913.3
22.5°	9942.4	9863.7	9776.8	9814.8	9909.8	10227.5	10368.7	10298.1	9839.3	8508.9	6448.2
25°	11365.1	11283.6	11004.0	10732.5	10553.3	10697.2	10890.0	10925.3	10629.3	9250.1	7007.5
27.5°	12874.7	12801.3	12486.4	12079.2	11566.0	11316.2	11460.1	11530.7	11405.8	10132.5	7602.1
30°	14289.2	14191.4	13846.6	13341.6	12747.0	12364.2	12201.3	12250.2	12323.5	11177.8	8299.8
32.5°	15516.4	15443.1	15030.4	14498.2	13925.4	13526.3	13146.2	13227.6	13406.8	12456.5	9193.1
35°	16556.2	16518.2	16081.1	15551.7	14946.2	14742.6	14416.8	14433.1	14612.3	14001.4	10281.8
37.5°	17460.3	17395.2	16998.8	16507.4	16026.8	15994.2	15904.6	15912.8	16005.1	15801.5	11533.4
40°	18030.5	17970.8	17688.4	17384.3	17042.2	17047.7	17511.9	17547.2	17441.3	17568.9	12855.6
42.5°	18245.0	18201.5	18049.5	18052.2	18016.9	18177.1	19048.6	19113.8	18733.7	18956.3	13985.1
45°	17873.0	17854.0	17864.9	18255.8	18679.4	19173.5	20305.7	20419.7	19882.1	19876.7	14867.5
47.5°	16673.0	16635.0	16952.6	17617.8	18597.9	19559.0	21065.9	21242.4	20685.8	20403.4	15421.3
50°	14321.8	14430.4	14932.6	15931.8	17422.3	19029.6	21057.7	21364.5	20715.7	20357.3	15329.0
52.5°	10374.1	10352.4	11452.0	12825.8	14639.4	17335.4	19939.2	20387.1	19990.7	19903.9	15122.7
55°	5644.5	5842.7	6583.9	8403.0	10667.3	14129.0	17384.3	18361.7	18820.6	19738.2	15494.7
57.5°	2074.3	2161.2	2625.4	3912.4	5647.3	8785.8	13279.2	14753.5	16170.7	19276.7	15432.2
60°	836.2	852.5	1037.1	1439.0	2372.9	4471.6	7965.9	9274.5	10610.3	14756.2	11842.9
62.5°	608.2	629.9	703.2	841.7	1200.0	1954.8	3434.5	3993.8	4365.8	7308.9	5834.6
65°	491.4	507.7	567.4	629.9	792.8	1050.7	1107.7	1067.0	1061.6	1889.7	1338.5
67.5°	407.3	423.5	467.0	510.4	570.2	524.0	380.1	399.1	325.8	323.1	263.4
70°	298.7	317.7	361.1	407.3	342.1	141.2	219.9	325.8	247.1	206.3	200.9
72.5°	225.3	238.9	279.6	266.1	100.5	54.3	146.6	236.2	190.1	152.0	149.3
75°	168.3	176.5	141.2	43.4	10.9	13.6	54.3	97.7	105.9	86.9	86.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.4	8.1	10.9	13.6	16.3
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°	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7	3032.7
2.5°	3095.1	2981.1	2818.2	2682.4	2579.3	2478.8	2402.8	2326.8	2324.1	2286.1	2277.9
5°	3225.5	3019.1	2720.5	2506.0	2375.6	2296.9	2242.6	2215.5	2201.9	2188.3	2182.9
7.5°	3412.8	3116.9	2704.2	2476.1	2367.5	2315.9	2277.9	2261.6	2253.5	2242.6	2239.9
10°	3643.6	3258.0	2763.9	2533.1	2438.1	2389.2	2348.5	2324.1	2310.5	2291.5	2286.1
12.5°	3920.5	3431.8	2858.9	2628.1	2527.7	2462.5	2408.2	2372.9	2353.9	2329.5	2324.1
15°	4219.2	3619.1	2964.8	2715.0	2595.6	2511.4	2443.5	2389.2	2353.9	2324.1	2315.9
17.5°	4528.7	3809.2	3059.8	2774.8	2628.1	2527.7	2429.9	2356.6	2313.2	2275.2	2264.3
20°	4876.2	4004.7	3122.3	2785.6	2617.3	2484.2	2370.2	2277.9	2234.5	2182.9	2172.0
22.5°	5240.0	4186.6	3149.4	2761.2	2557.6	2402.8	2280.6	2185.6	2123.2	2068.9	2052.6
25°	5593.0	4349.5	3135.9	2693.3	2468.0	2288.8	2163.9	2066.1	1998.3	1944.0	1930.4
27.5°	5967.6	4485.2	3087.0	2592.9	2345.8	2163.9	2044.4	1960.2	1897.8	1838.1	1824.5
30°	6388.5	4610.1	3008.2	2470.7	2201.9	2036.3	1944.0	1886.9	1819.1	1756.6	1737.6
32.5°	6896.2	4721.4	2894.2	2324.1	2074.3	1925.0	1873.4	1829.9	1751.2	1686.0	1672.5
35°	7477.2	4813.7	2750.3	2172.0	1949.4	1854.4	1843.5	1786.5	1683.3	1607.3	1591.0
37.5°	8150.5	4903.3	2579.3	2022.7	1857.1	1821.8	1824.5	1726.8	1601.9	1509.6	1498.7
40°	8875.4	4992.9	2389.2	1892.4	1772.9	1802.8	1778.3	1639.9	1436.2	1346.7	1335.8
42.5°	9630.2	5090.7	2196.5	1770.2	1702.3	1729.5	1694.2	1466.1	1319.5	1273.3	1267.9
45°	10311.7	5207.4	1987.4	1648.0	1631.7	1623.6	1563.9	1327.6	1265.2	1232.6	1229.9
47.5°	10803.1	5188.4	1764.8	1531.3	1555.7	1528.6	1346.7	1262.5	1210.9	1167.5	1156.6
50°	10713.5	4857.2	1534.0	1401.0	1458.0	1433.5	1210.9	1186.5	1140.3	1094.2	1077.9
52.5°	10485.4	4406.5	1333.1	1262.5	1352.1	1295.1	1118.6	1094.2	1053.4	993.7	974.7
55°	10607.6	3982.9	1175.6	1151.2	1243.5	1072.4	1015.4	977.4	934.0	868.8	860.7
57.5°	10213.9	3249.9	944.8	961.1	1099.6	915.0	890.5	830.8	757.5	714.1	708.6
60°	7069.9	1745.8	591.9	610.9	795.5	768.4	798.2	743.9	654.3	613.6	605.5
62.5°	3247.2	700.5	323.1	309.5	418.1	521.3	684.2	678.8	567.4	502.3	496.8
65°	787.4	320.4	230.8	217.2	236.2	312.2	445.3	534.9	458.8	382.8	374.7
67.5°	255.2	260.6	211.8	198.2	209.1	233.5	266.1	295.9	293.2	268.8	263.4
70°	203.6	236.2	195.5	179.2	179.2	187.3	179.2	143.9	124.9	135.8	141.2
72.5°	152.0	179.2	154.8	138.5	133.0	130.3	111.3	81.5	57.0	51.6	48.9
75°	89.6	100.5	95.0	81.5	76.0	67.9	54.3	35.3	19.0	13.6	8.1
77.5°	16.3	19.0	21.7	16.3	13.6	10.9	8.1	2.7	0.0	0.0	0.0
80°	0.0	2.7	2.7	2.7	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)