

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: P643415

Luminaire Tested: GWS-SA6E-830-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-830-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

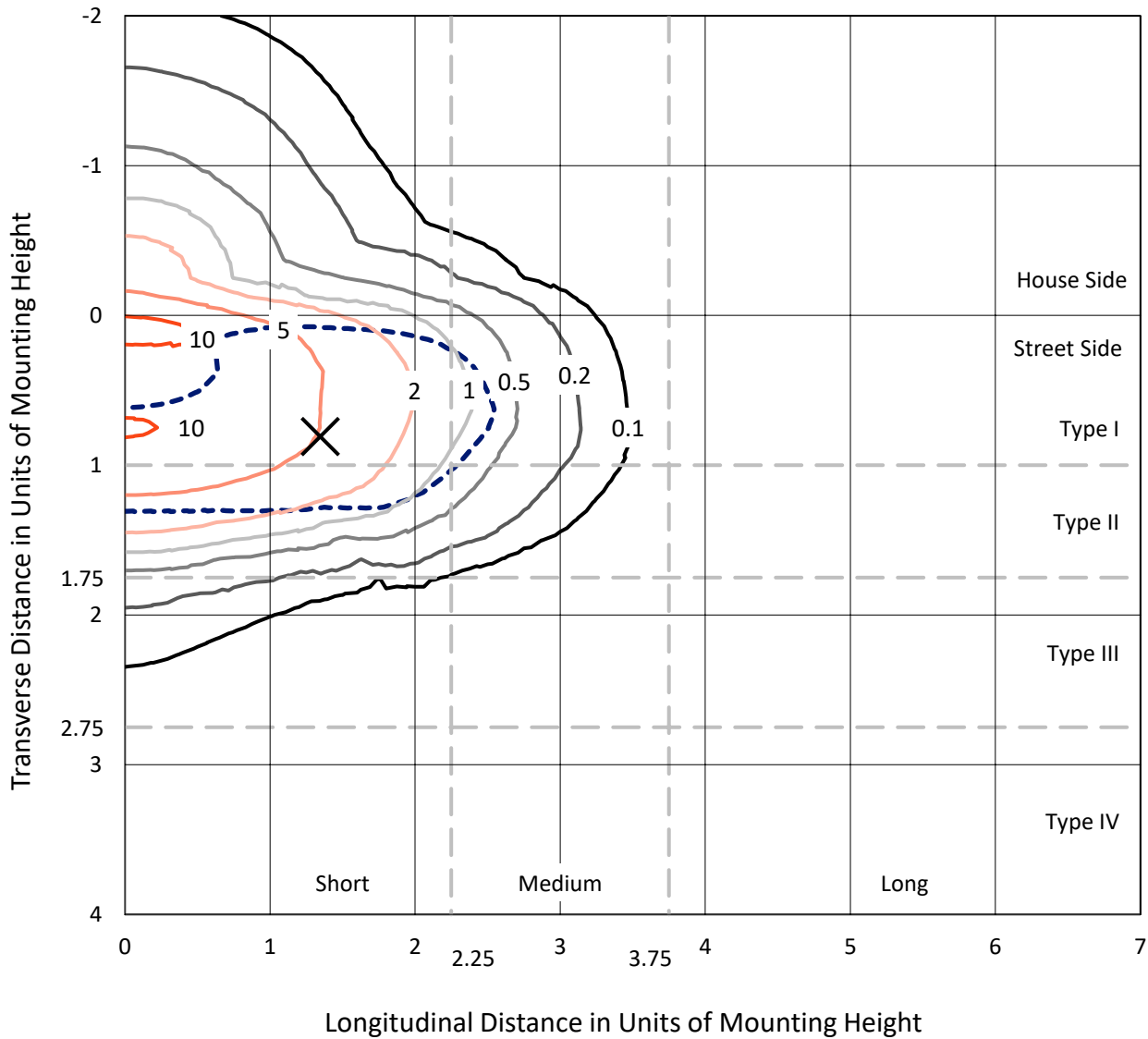
Lumens per Lamp: N/A  
Luminaire Lumens: 36211.8 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

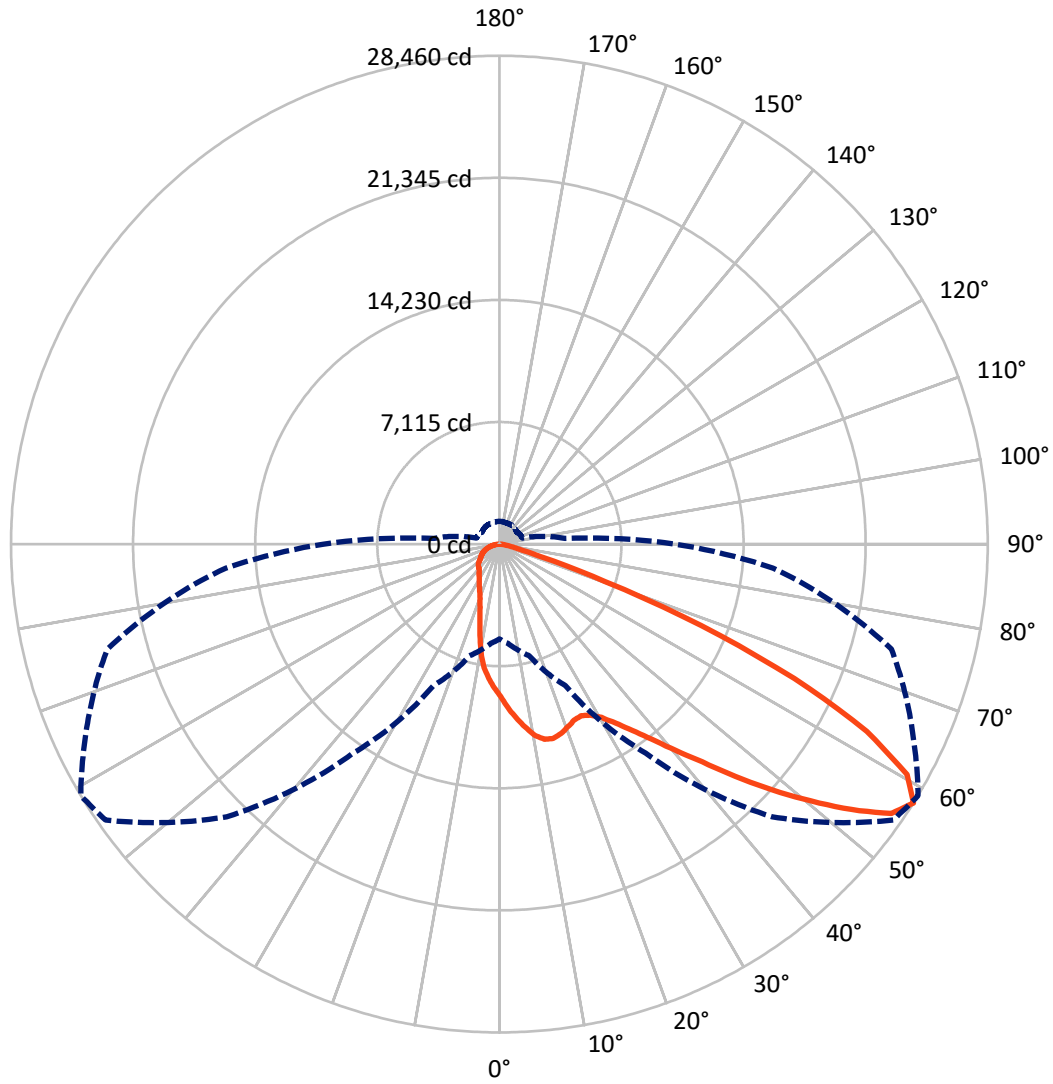
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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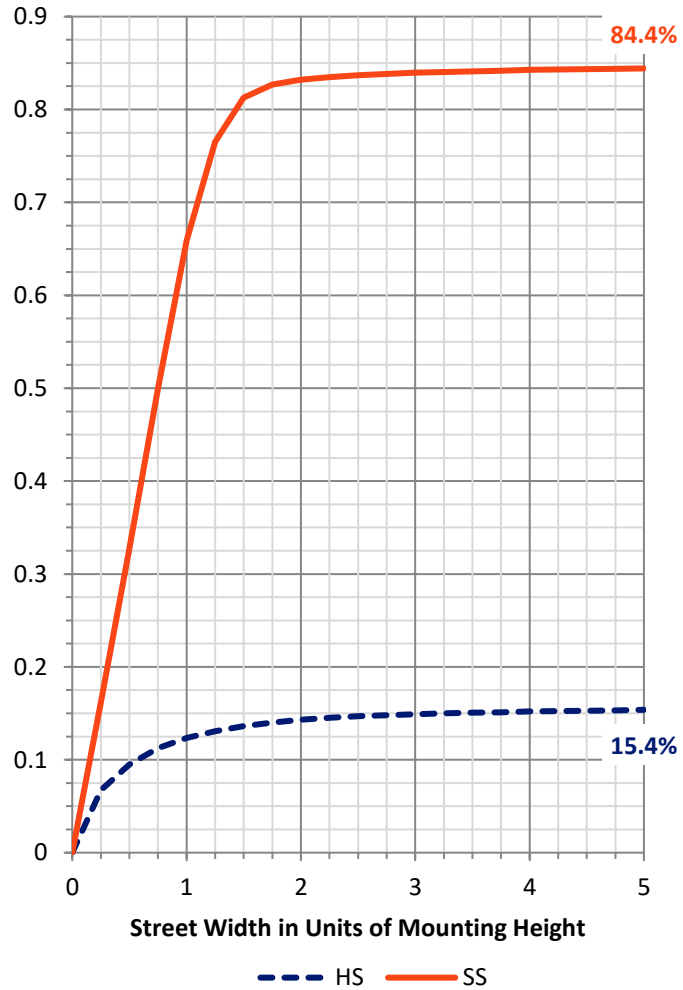
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5619.9	0.0	5619.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	30591.9	0.0	30591.9
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	36211.8	0.0	36211.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.4	2.3
10°-20°	2091.5	5.8
20°-30°	3390.4	9.4
30°-40°	5453.9	15.1
40°-50°	8469.4	23.4
50°-60°	9122.6	25.2
60°-70°	5294.4	14.6
70°-80°	1382.1	3.8
80°-90°	182.1	0.5
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°	36211.8	100.0
0°-180°	36211.8	100.0

**Coefficient of Utilization**



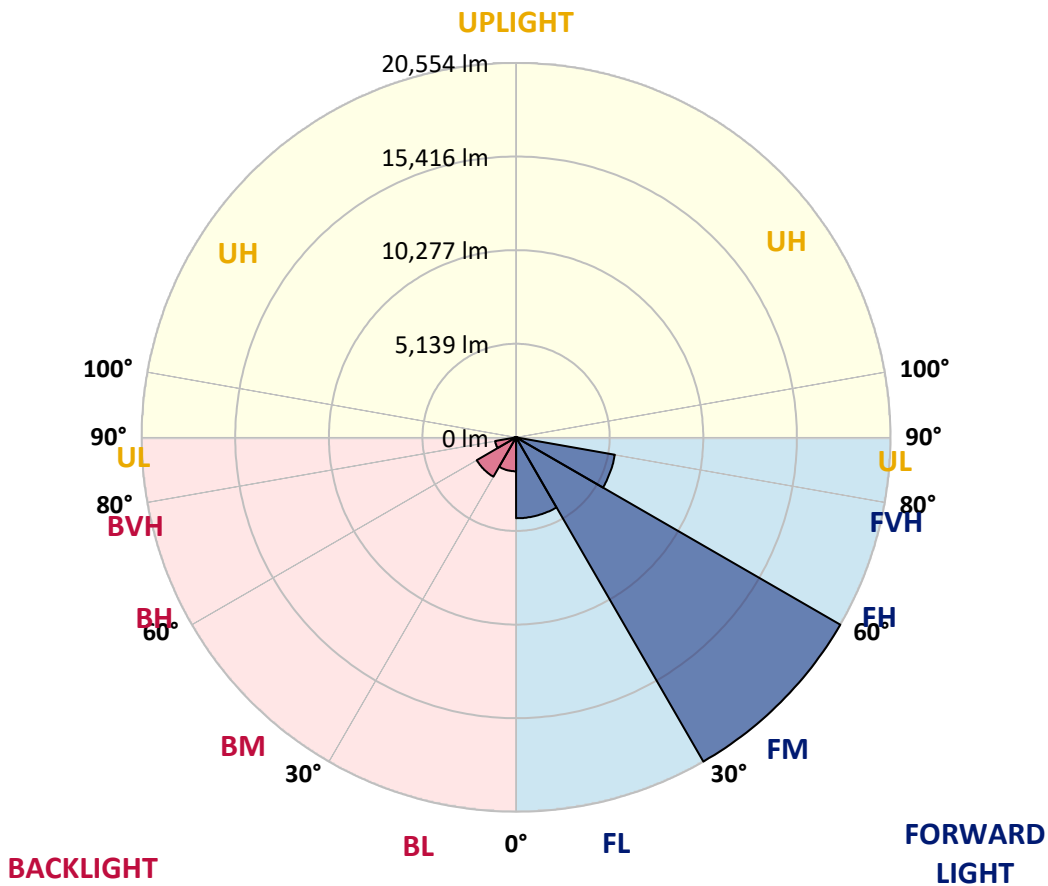
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4442.8	12.3			
FM (30°-60°)	20554.2	56.8			
FH (60°-80°)	5507.7	15.2			G3/7500
FVH (80°-90°)	87.2	0.2			G1/100
BL (0°-30°)	1864.4	5.1	B3/2500		
BM (30°-60°)	2491.6	6.9	B2/2500		
BH (60°-80°)	1168.9	3.2	B3/2500		G3/2500
BVH (80°-90°)	94.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3
2.5°	10082.3	9998.2	10056.8	9952.3	9909.0	9794.3	9646.4	9547.0	9394.0	9195.2	9021.8
5°	11084.2	11025.6	11038.3	10926.1	10826.7	10635.5	10332.2	10163.9	9903.9	9503.6	9131.5
7.5°	11053.6	11122.4	11160.7	11257.5	11285.6	11267.7	10995.0	10760.4	10474.9	9873.3	9312.5
10°	9909.0	10039.0	10156.3	10487.7	10890.4	11400.3	11464.0	11323.8	11035.8	10344.9	9529.1
12.5°	8662.4	8761.8	8866.3	9264.0	9880.9	10900.6	11591.5	11678.2	11563.4	10811.4	9773.9
15°	8050.6	8096.5	8195.9	8458.4	8950.5	10082.3	11369.7	11749.5	11956.0	11306.0	10049.2
17.5°	8025.1	8045.5	8093.9	8234.1	8575.7	9450.1	10969.5	11606.8	12264.5	11828.6	10370.4
20°	8552.8	8499.2	8468.6	8466.1	8634.3	9238.5	10582.0	11377.4	12409.8	12363.9	10714.5
22.5°	9284.4	9302.3	9236.0	9072.8	9052.4	9388.9	10388.2	11145.4	12453.1	12838.1	11033.2
25°	10322.0	10411.2	10214.9	9903.9	9750.9	9824.9	10508.1	11074.0	12448.0	13233.2	11232.0
27.5°	11532.9	11601.7	11402.8	10995.0	10678.9	10500.4	10865.0	11285.6	12491.4	13574.8	11351.9
30°	12912.0	12934.9	12662.2	12233.9	11772.5	11390.1	11458.9	11721.5	12713.2	14023.5	11492.1
32.5°	14597.1	14693.9	14281.0	13602.9	12957.9	12468.4	12256.8	12425.1	13192.4	14553.7	11708.8
35°	16735.9	16769.0	16243.9	15272.6	14360.0	13681.9	13238.3	13327.5	13921.5	15295.6	12035.1
37.5°	18752.4	18785.5	18227.2	17324.8	16019.6	15091.6	14449.2	14408.4	14854.5	16343.3	12567.9
40°	20032.1	20126.4	19876.6	19310.7	18064.1	16812.4	15940.5	15800.3	16078.2	17625.6	13309.7
42.5°	20720.4	20761.2	20756.1	20830.0	20088.2	18844.1	17623.0	17342.6	17528.7	19009.8	14059.2
45°	20725.5	20827.5	21100.2	21811.5	21844.6	21069.6	19749.1	19310.7	19139.9	20404.3	14841.8
47.5°	19797.6	19907.2	20656.7	22056.2	23088.7	23264.6	22295.8	21416.3	20697.4	21605.0	15484.2
50°	16988.3	17263.6	18691.2	21166.5	23333.4	25023.5	24725.3	23532.2	22081.7	22532.9	15887.0
52.5°	14548.6	14538.4	15417.9	18652.9	22311.1	25798.5	27075.7	25709.3	23450.7	23121.8	15989.0
55°	10653.4	10712.0	11611.9	14265.7	19583.4	25049.0	28368.2	27713.0	25021.0	23435.4	15948.2
57.5°	5524.2	5814.9	6737.7	9103.4	14880.0	22469.2	28024.0	28459.9	26616.8	23657.1	16001.7
60°	2791.4	2735.4	3066.8	4346.5	8621.6	17549.1	25903.0	27292.4	26904.9	23830.5	16034.9
62.5°	1863.5	1848.2	1756.4	2013.9	3523.1	10393.3	22081.7	24029.3	24903.7	23422.6	15611.7
65°	1613.7	1583.1	1414.8	1404.6	1710.6	4310.8	16185.3	18890.0	20582.7	21610.1	14599.6
67.5°	1453.1	1407.2	1236.4	1152.3	1228.7	1894.1	9121.3	12669.8	15198.7	18275.7	12381.8
70°	1297.6	1274.6	1103.8	981.5	973.8	1154.8	3359.9	6538.9	9299.7	12468.4	9052.4
72.5°	1162.5	1121.7	976.4	859.1	800.5	818.3	1458.2	2518.7	4813.0	7777.8	5414.6
75°	1007.0	976.4	848.9	731.6	660.3	599.1	889.7	1165.0	2194.9	3696.4	2556.9
77.5°	777.5	757.1	670.5	581.2	540.4	446.1	540.4	734.2	1014.6	1557.6	1330.7
80°	451.2	464.0	499.7	453.8	397.7	318.7	351.8	423.2	609.3	843.8	754.6
82.5°	226.9	242.2	323.8	262.6	237.1	186.1	209.0	249.8	318.7	466.5	295.7
85°	17.8	17.8	58.6	66.3	81.6	66.3	84.1	102.0	145.3	186.1	99.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.6	12.7	22.9	43.3	28.0
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°	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3	8889.3
2.5°	8904.6	8774.6	8619.1	8491.6	8295.3	8190.8	8058.2	7895.1	7828.8	7798.2	7780.3
5°	8922.4	8693.0	8361.6	8055.7	7716.6	7448.9	7150.7	6839.7	6661.2	6617.9	6587.3
7.5°	8988.7	8667.5	8139.8	7635.0	7005.4	6421.6	5853.1	5289.7	5001.6	4892.0	4881.8
10°	9080.5	8657.3	7915.5	7076.7	6013.7	5090.9	4425.5	3984.5	3798.4	3737.2	3716.8
12.5°	9195.2	8649.6	7619.7	6301.8	4869.1	3997.2	3617.4	3546.0	3571.5	3566.4	3566.4
15°	9340.5	8659.8	7262.8	5424.8	3938.6	3469.5	3477.2	3561.3	3640.3	3653.1	3653.1
17.5°	9498.5	8649.6	6745.3	4545.3	3380.3	3344.6	3461.9	3579.2	3650.5	3660.7	3660.7
20°	9669.3	8601.2	6092.7	3716.8	3135.6	3265.6	3393.1	3484.8	3528.2	3538.4	3538.4
22.5°	9771.3	8463.5	5384.0	3145.8	2980.1	3140.7	3224.8	3319.1	3324.2	3242.7	3240.1
25°	9756.0	8206.1	4575.9	2778.7	2814.4	2954.6	3061.7	2995.4	2913.8	2867.9	2860.3
27.5°	9659.1	7818.6	3752.5	2500.8	2618.1	2776.1	2743.0	2686.9	2666.5	2615.5	2610.4
30°	9536.8	7341.9	3013.2	2284.1	2414.2	2559.5	2508.5	2503.4	2483.0	2426.9	2426.9
32.5°	9419.5	6849.9	2454.9	2123.5	2284.1	2294.3	2365.7	2370.8	2360.6	2263.7	2253.5
35°	9386.4	6357.9	2077.6	1996.1	2156.7	2151.6	2253.5	2251.0	2075.1	1940.0	1937.4
37.5°	9485.8	5858.2	1853.3	1891.6	1980.8	2047.1	2128.6	1980.8	1922.1	1840.6	1835.5
40°	9697.4	5396.8	1738.6	1830.4	1868.6	1965.5	1838.0	1848.2	1832.9	1771.7	1764.1
42.5°	9977.8	5004.2	1674.9	1810.0	1804.9	1830.4	1690.2	1730.9	1753.9	1708.0	1700.4
45°	10248.0	4662.6	1641.7	1733.5	1759.0	1611.1	1583.1	1621.3	1657.0	1639.2	1631.5
47.5°	10446.9	4366.9	1623.9	1629.0	1700.4	1537.2	1491.3	1509.2	1552.5	1560.1	1557.6
50°	10508.1	4114.5	1603.5	1542.3	1527.0	1463.3	1427.6	1422.5	1473.5	1509.2	1514.3
52.5°	10390.8	3890.2	1550.0	1465.8	1391.9	1402.1	1389.3	1363.9	1414.8	1463.3	1468.4
55°	10217.4	3762.7	1465.8	1391.9	1305.2	1346.0	1351.1	1328.2	1361.3	1394.4	1394.4
57.5°	10230.2	3836.6	1384.2	1323.1	1228.7	1282.3	1310.3	1300.1	1300.1	1325.6	1328.2
60°	10314.3	3943.7	1330.7	1236.4	1152.3	1208.3	1272.1	1261.9	1238.9	1272.1	1272.1
62.5°	10072.1	3800.9	1295.0	1152.3	1070.7	1137.0	1213.4	1208.3	1182.9	1236.4	1241.5
65°	9358.3	3418.6	1254.2	1047.7	989.1	1065.6	1131.9	1149.7	1126.8	1198.2	1210.9
67.5°	7844.1	2875.6	1175.2	948.3	907.5	978.9	1042.6	1068.1	1050.3	1134.4	1144.6
70°	5848.0	2327.5	1050.3	838.7	808.1	871.8	930.5	940.7	943.2	1042.6	1052.8
72.5°	3729.6	1810.0	884.6	716.3	693.4	741.8	785.2	826.0	843.8	938.1	935.6
75°	2080.2	1346.0	711.2	606.7	565.9	604.2	655.2	703.6	754.6	892.2	907.5
77.5°	1198.2	945.8	563.4	486.9	438.5	479.3	522.6	591.4	744.4	864.2	848.9
80°	675.6	614.4	425.7	356.9	326.3	356.9	390.0	520.0	586.3	637.3	645.0
82.5°	316.1	344.2	290.6	219.2	219.2	239.6	270.2	402.8	443.6	362.0	316.1
85°	114.7	155.5	142.8	112.2	99.4	96.9	168.3	229.4	142.8	127.5	109.6
87.5°	30.6	43.3	40.8	28.0	15.3	12.7	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)