

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: P633319

Luminaire Tested: GWS-SA2E-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-740-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

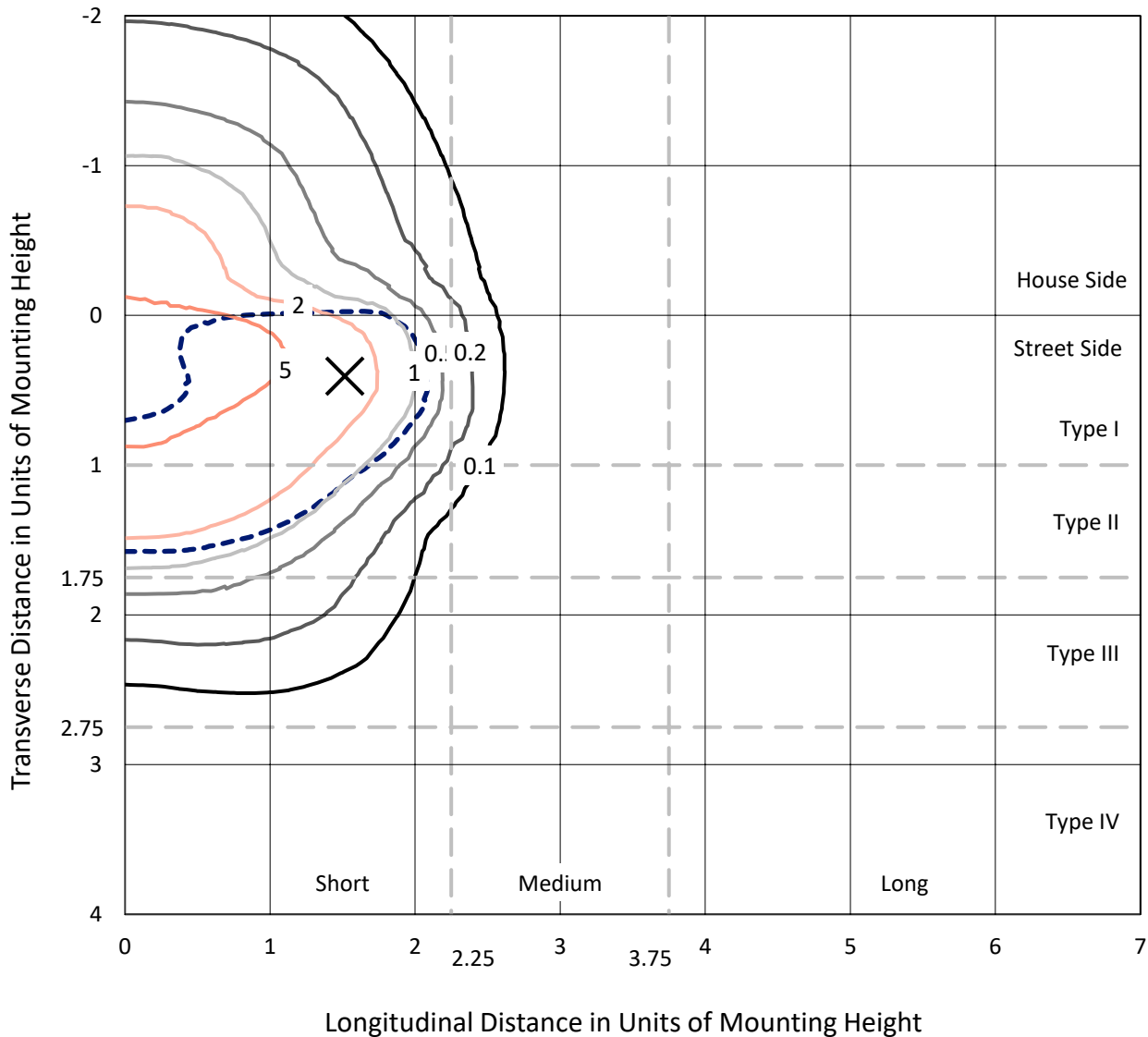
Lumens per Lamp: N/A  
Luminaire Lumens: 12164.9 lumens  
Efficiency: N/A  
Efficacy: 112.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

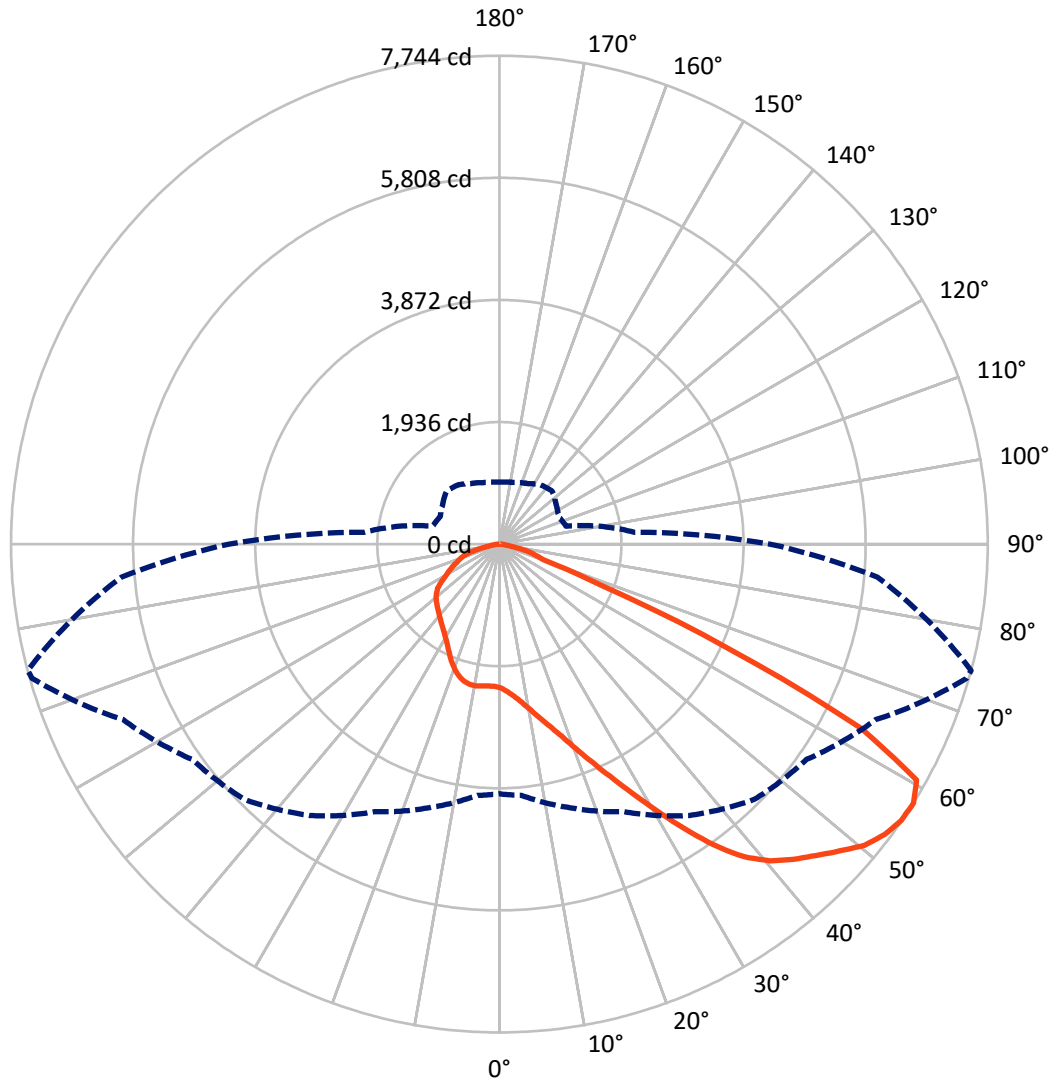
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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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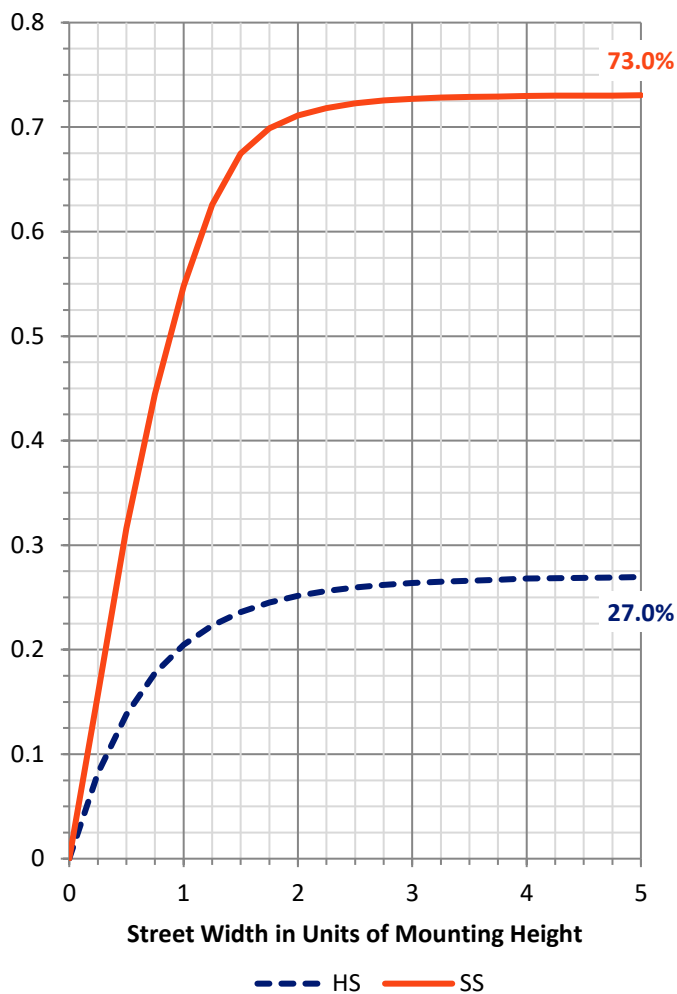
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3290.9	0.0	3290.9
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	8874.1	0.0	8874.1
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	12164.9	0.0	12164.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.0	1.9
10°-20°	725.8	6.0
20°-30°	1287.2	10.6
30°-40°	1970.6	16.2
40°-50°	2743.8	22.6
50°-60°	3143.9	25.8
60°-70°	1615.4	13.3
70°-80°	406.7	3.3
80°-90°	43.5	0.4
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°	12164.9	100.0
0°-180°	12164.9	100.0

**Coefficient of Utilization**



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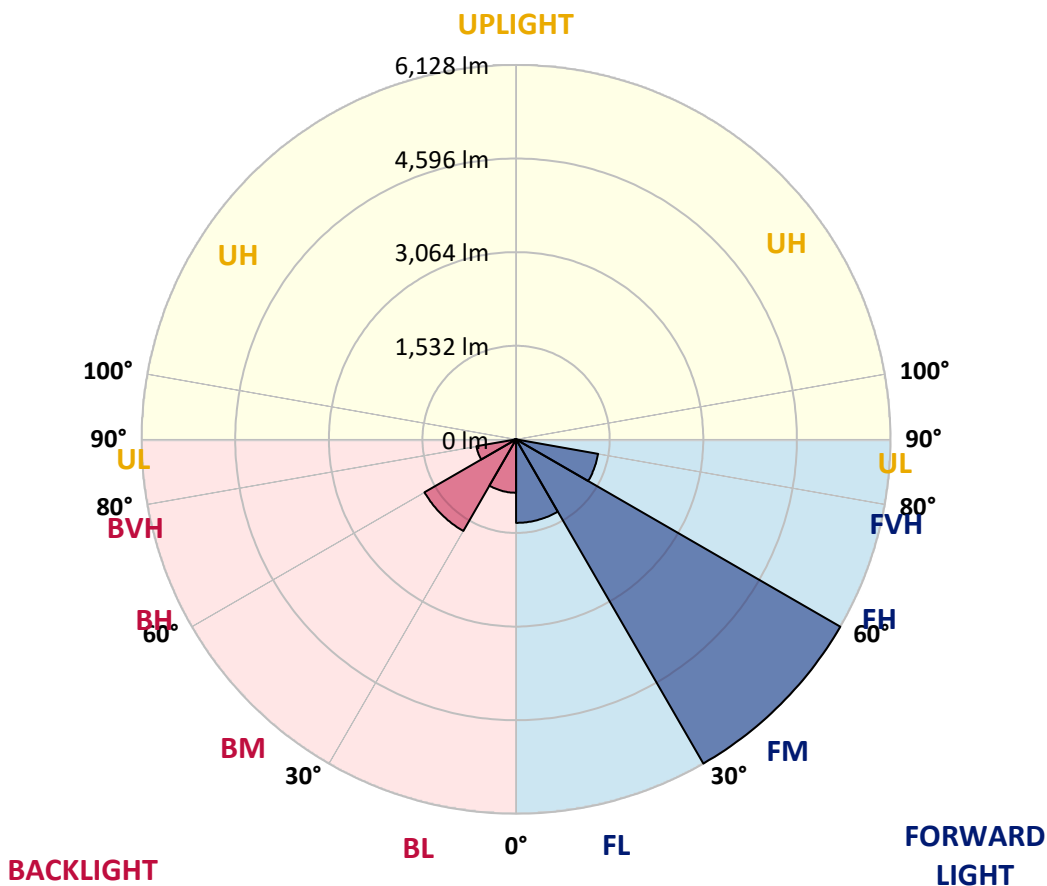
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.8	11.2			
FM (30°-60°)	6127.6	50.4			
FH (60°-80°)	1363.6	11.2			G1/1800
FVH (80°-90°)	16.1	0.1			G1/100
BL (0°-30°)	874.3	7.2	B2/1000		
BM (30°-60°)	1730.7	14.2	B2/2500		
BH (60°-80°)	658.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	27.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2
2.5°	2447.6	2453.9	2447.6	2458.1	2437.2	2427.8	2404.8	2370.2	2343.0	2338.9	2308.5
5°	2638.0	2651.6	2643.2	2639.1	2610.8	2589.9	2555.4	2486.3	2429.9	2421.5	2361.9
7.5°	2760.4	2769.8	2769.8	2773.0	2762.5	2738.4	2701.8	2620.2	2540.7	2528.2	2438.2
10°	2801.2	2808.5	2822.1	2848.3	2869.2	2876.5	2852.4	2774.0	2676.7	2664.2	2538.6
12.5°	2810.6	2819.0	2839.9	2888.0	2945.5	2997.8	3002.0	2944.5	2835.7	2822.1	2654.8
15°	2828.4	2836.8	2865.0	2924.6	3009.3	3109.8	3171.5	3131.7	3011.4	2996.8	2786.6
17.5°	2826.3	2835.7	2877.6	2957.0	3071.1	3216.5	3335.7	3352.4	3228.0	3202.9	2936.1
20°	2821.1	2829.4	2874.4	2971.7	3112.9	3312.7	3528.2	3615.0	3481.1	3458.1	3110.8
22.5°	2862.9	2872.3	2906.8	2987.4	3134.9	3387.0	3706.0	3915.2	3781.3	3748.9	3311.6
25°	2957.0	2970.6	2991.6	3047.0	3174.6	3452.9	3888.0	4255.1	4118.1	4079.4	3530.3
27.5°	3102.4	3119.2	3148.5	3174.6	3263.5	3536.5	4069.0	4635.9	4498.9	4458.1	3761.4
30°	3280.3	3302.2	3339.9	3357.7	3418.3	3660.0	4265.6	5028.1	4948.6	4892.2	4021.9
32.5°	3526.1	3556.4	3592.0	3597.2	3633.8	3847.2	4460.2	5417.2	5416.2	5376.5	4317.9
35°	3846.2	3878.6	3885.9	3893.2	3911.0	4104.5	4695.5	5771.8	5908.9	5862.8	4640.1
37.5°	4195.5	4242.6	4254.1	4221.7	4246.8	4414.1	4960.1	6056.4	6337.7	6288.6	4951.8
40°	4568.9	4587.8	4619.1	4567.9	4599.3	4768.7	5219.6	6238.4	6657.8	6605.5	5197.6
42.5°	4836.7	4871.2	4918.3	4899.5	4917.3	5072.1	5401.6	6326.2	6885.8	6833.5	5374.4
45°	5127.5	5138.0	5168.3	5164.1	5174.6	5318.9	5532.3	6364.9	7089.8	7042.7	5525.0
47.5°	5380.6	5396.3	5416.2	5393.2	5370.2	5464.3	5639.0	6398.4	7325.2	7268.7	5682.9
50°	5624.4	5638.0	5662.0	5595.1	5509.3	5533.4	5691.3	6444.4	7545.9	7506.1	5807.4
52.5°	5669.3	5684.0	5796.9	5810.5	5700.7	5616.0	5783.3	6545.9	7675.6	7650.5	5852.4
55°	5103.4	5129.6	5354.5	5612.9	5883.8	5856.6	5930.8	6599.2	7726.8	7733.1	5932.9
57.5°	3961.2	3998.9	4327.3	4681.9	5252.0	5723.7	5949.7	6585.6	7709.0	7743.6	6015.6
60°	2598.3	2620.2	3009.3	3406.8	3997.8	4650.5	5325.2	6340.9	7551.1	7600.3	5994.6
62.5°	1569.0	1594.1	1906.9	2208.1	2556.4	2992.6	3611.8	5096.1	6329.4	6439.2	4801.2
65°	1095.2	1128.6	1402.7	1650.6	1770.9	1680.9	1829.5	2846.2	3943.4	3989.5	2934.0
67.5°	793.9	816.9	1041.8	1336.8	1469.6	1187.2	904.8	1260.4	1717.5	1734.3	1210.2
70°	519.9	546.0	750.0	1017.8	1199.8	962.3	676.8	682.0	722.8	731.2	702.9
72.5°	285.6	301.2	463.4	675.7	709.2	575.3	528.2	566.9	595.2	595.2	602.5
75°	147.5	161.1	189.3	222.8	268.8	314.8	380.7	438.3	468.6	470.7	467.6
77.5°	75.3	80.5	101.5	109.8	120.3	140.2	182.0	233.3	260.5	270.9	268.8
80°	35.6	37.7	42.9	50.2	61.7	78.5	98.3	117.2	133.9	136.0	147.5
82.5°	18.8	20.9	23.0	27.2	33.5	41.8	57.5	69.0	79.5	81.6	91.0
85°	7.3	8.4	9.4	10.5	14.6	17.8	24.1	32.4	39.7	39.7	47.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	5.2	7.3	7.3	12.6
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°	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2	2278.2
2.5°	2301.2	2270.9	2257.3	2235.3	2217.5	2197.7	2182.0	2170.5	2163.1	2158.9	2154.8
5°	2338.9	2292.8	2256.2	2212.3	2182.0	2152.7	2128.6	2111.9	2103.5	2097.2	2093.1
7.5°	2397.4	2335.7	2266.7	2198.7	2145.4	2098.3	2067.9	2050.2	2038.7	2034.5	2031.3
10°	2478.0	2392.2	2278.2	2170.5	2091.0	2039.7	2018.8	2010.4	2011.5	2009.4	2008.3
12.5°	2569.0	2451.8	2275.1	2120.2	2032.4	2002.0	2003.1	2016.7	2032.4	2036.6	2037.6
15°	2667.3	2510.4	2244.7	2055.4	1986.4	1989.5	2016.7	2049.1	2078.4	2089.9	2092.0
17.5°	2774.0	2559.6	2189.3	1984.3	1948.7	1982.2	2032.4	2085.7	2128.6	2147.4	2152.7
20°	2893.2	2601.4	2110.8	1914.2	1913.1	1968.6	2041.8	2111.9	2166.3	2191.4	2195.6
22.5°	3019.8	2627.6	2014.6	1849.3	1876.5	1950.8	2034.5	2107.7	2165.2	2190.3	2195.6
25°	3147.4	2635.9	1909.0	1789.7	1838.9	1922.6	1998.9	2057.5	2111.9	2133.8	2138.0
27.5°	3266.7	2611.9	1808.5	1738.5	1804.4	1880.7	1932.0	1963.3	2001.0	2017.7	2020.9
30°	3388.0	2563.8	1723.8	1697.7	1765.7	1823.2	1846.2	1848.3	1862.9	1862.9	1865.0
32.5°	3510.4	2492.6	1649.5	1657.9	1717.5	1755.2	1758.3	1734.3	1716.5	1687.2	1686.2
35°	3651.6	2420.5	1588.9	1612.9	1661.1	1684.1	1674.7	1628.6	1585.7	1537.6	1535.5
37.5°	3782.3	2346.2	1537.6	1566.9	1597.2	1614.0	1592.0	1536.6	1501.0	1451.9	1444.5
40°	3890.1	2279.2	1488.5	1518.8	1533.4	1548.1	1512.5	1467.5	1472.8	1445.6	1444.5
42.5°	3952.8	2214.4	1442.4	1465.4	1474.9	1485.3	1453.9	1420.5	1448.7	1427.8	1428.8
45°	3998.9	2157.9	1400.6	1409.0	1432.0	1447.7	1418.4	1380.7	1387.0	1306.5	1287.6
47.5°	4051.2	2126.5	1360.8	1352.5	1393.3	1420.5	1375.5	1321.1	1283.4	1203.9	1196.6
50°	4106.6	2115.0	1319.0	1296.0	1345.2	1371.3	1319.0	1251.0	1201.9	1159.0	1154.8
52.5°	4125.4	2114.0	1266.7	1228.0	1277.2	1313.8	1269.8	1200.8	1142.2	1100.4	1098.3
55°	4199.7	2144.3	1199.8	1134.9	1180.9	1256.2	1223.8	1124.5	1077.4	1058.6	1056.5
57.5°	4286.5	2149.5	1094.1	1033.5	1097.3	1186.2	1145.4	1059.6	1008.3	985.3	983.2
60°	4251.0	2020.9	981.2	956.0	1026.1	1120.3	1082.6	1008.3	948.7	926.8	924.7
62.5°	3239.5	1426.7	898.5	889.1	949.8	1025.1	1017.8	940.4	883.9	868.2	866.1
65°	1948.7	1002.1	819.0	818.0	860.9	933.0	942.4	879.7	820.1	798.1	798.1
67.5°	963.4	766.7	729.1	723.8	751.0	802.3	842.0	790.8	740.6	719.6	716.5
70°	680.9	675.7	663.2	648.5	653.8	674.7	691.4	648.5	595.2	574.3	570.1
72.5°	588.9	589.9	581.6	570.1	565.9	551.2	536.6	505.2	472.8	450.8	452.9
75°	457.1	459.2	464.4	460.2	448.7	433.0	417.4	377.6	351.5	330.5	326.4
77.5°	266.7	277.2	293.9	289.7	291.8	269.9	263.6	224.9	200.8	186.2	183.1
80°	150.6	156.9	164.2	169.5	163.2	153.8	140.2	119.2	111.9	101.5	99.4
82.5°	91.0	97.3	100.4	104.6	102.5	90.0	79.5	65.9	59.6	54.4	53.3
85°	46.0	50.2	53.3	55.4	49.2	40.8	36.6	29.3	25.1	22.0	22.0
87.5°	11.5	12.6	14.6	12.6	11.5	5.2	4.2	1.0	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)