

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: P630463

Luminaire Tested: GWS-SA1D-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-760-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

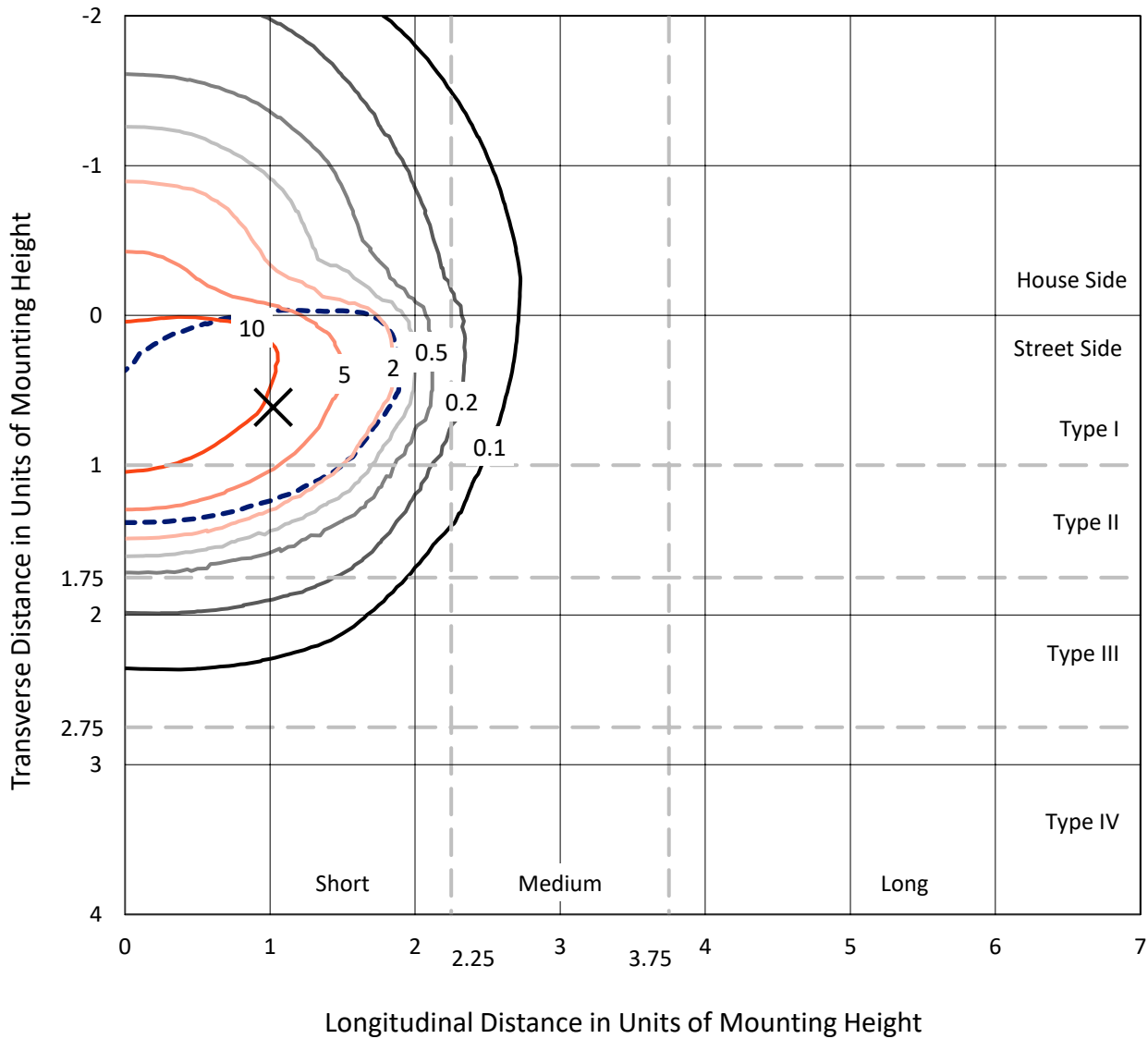
Lumens per Lamp: N/A  
Luminaire Lumens: 5384.2 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

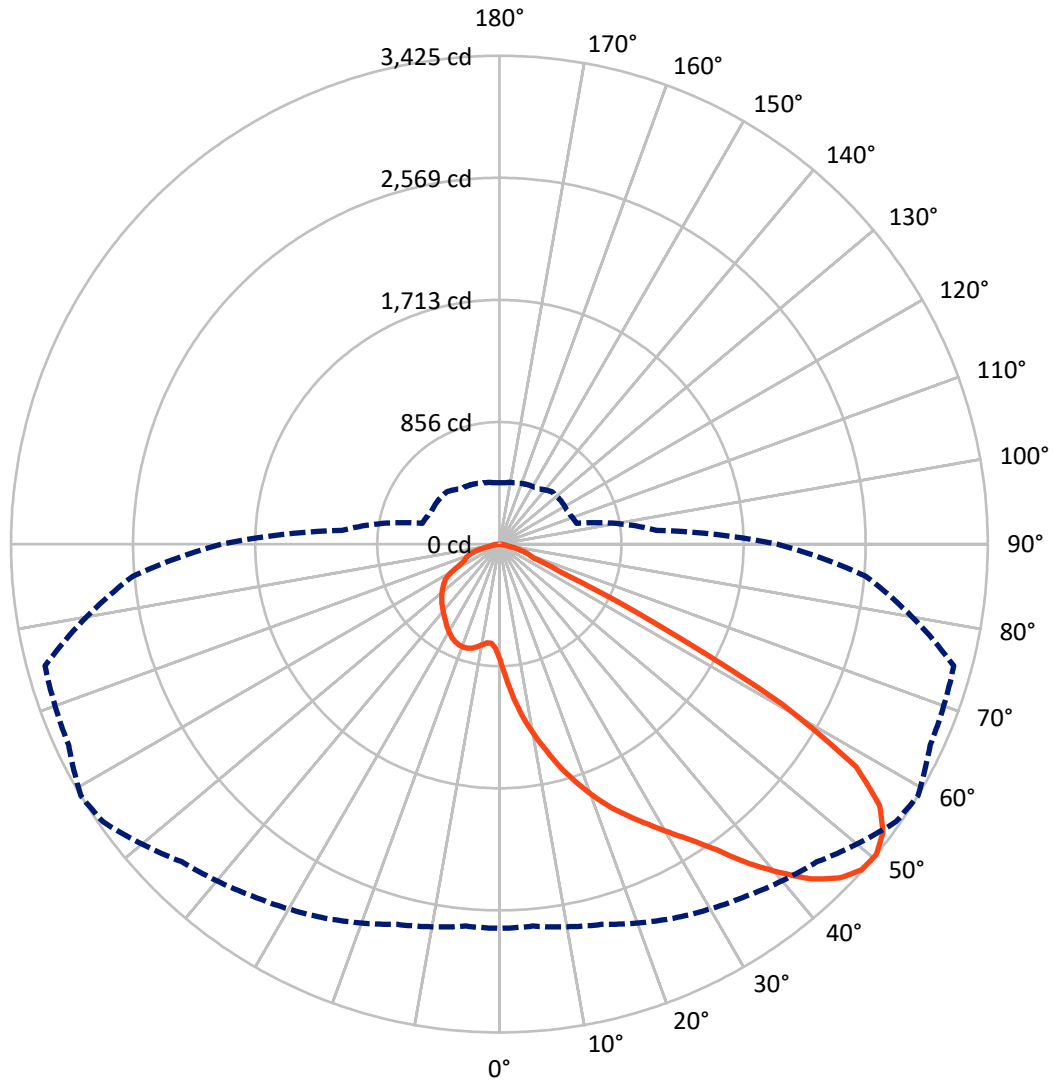
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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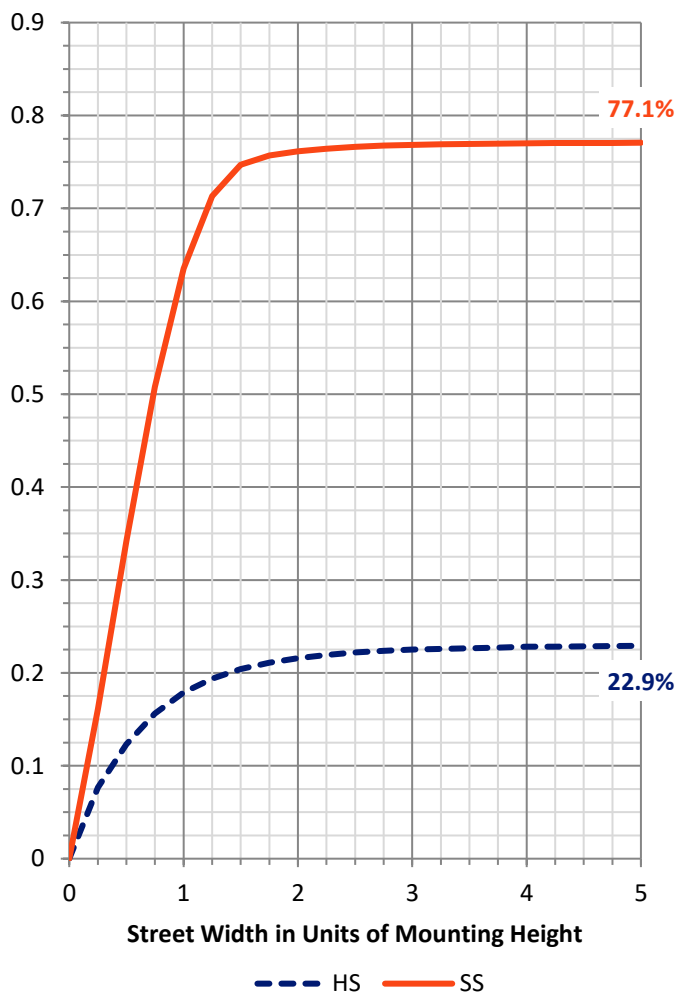
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1238.5	0.0	1238.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4145.7	0.0	4145.7
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5384.2	0.0	5384.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	1.7
10°-20°	332.2	6.2
20°-30°	629.1	11.7
30°-40°	1043.2	19.4
40°-50°	1425.0	26.5
50°-60°	1293.6	24.0
60°-70°	430.8	8.0
70°-80°	125.6	2.3
80°-90°	13.2	0.2
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°	5384.2	100.0
0°-180°	5384.2	100.0

**Coefficient of Utilization**



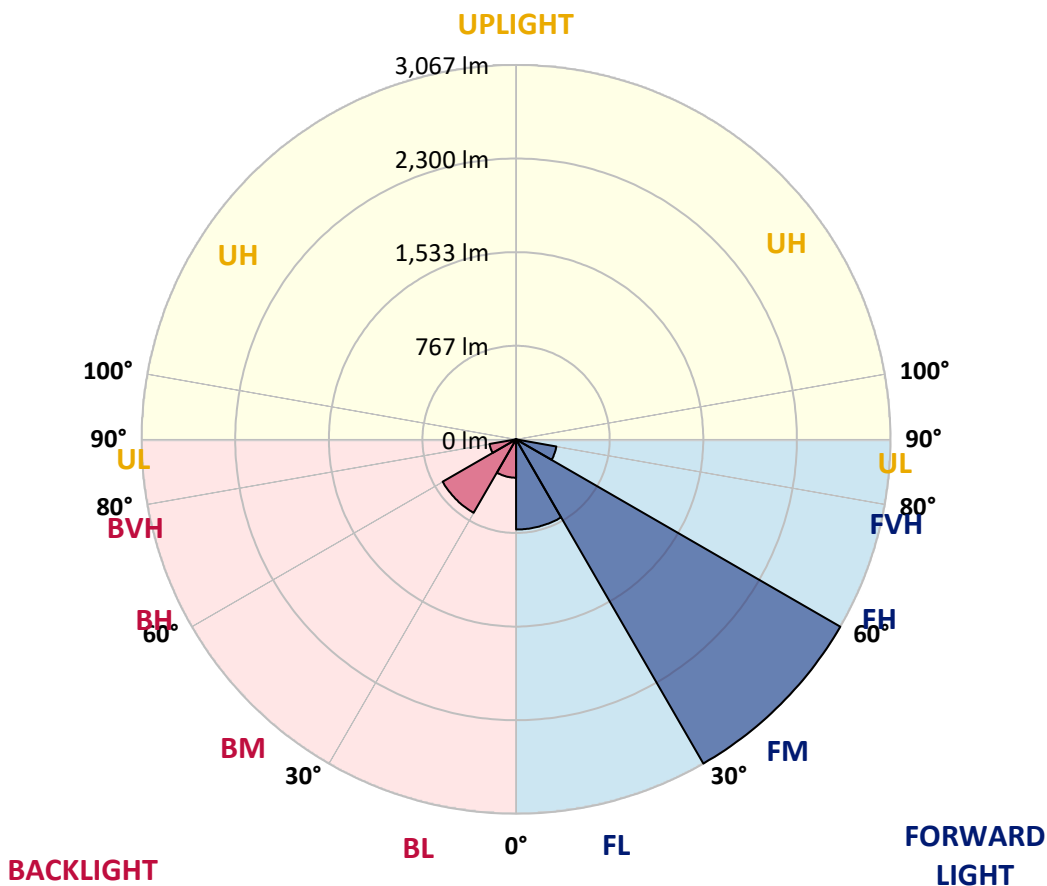
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.3	13.7			
FM (30°-60°)	3066.9	57.0			
FH (60°-80°)	335.4	6.2			G0/660
FVH (80°-90°)	5.2	0.1			G0/10
BL (0°-30°)	314.5	5.8	B1/500		
BM (30°-60°)	694.9	12.9	B1/1000		
BH (60°-80°)	221.0	4.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7
2.5°	1057.0	1064.9	1052.6	1053.5	1022.8	1008.7	969.2	946.0	930.7	887.7	848.6
5°	1270.1	1260.9	1251.2	1245.5	1218.8	1181.1	1132.0	1092.9	1057.0	972.8	891.6
7.5°	1400.8	1396.0	1389.4	1385.9	1359.6	1320.1	1271.0	1237.7	1185.5	1071.4	943.8
10°	1511.8	1506.1	1502.1	1504.7	1483.3	1457.8	1404.3	1366.2	1307.4	1175.8	1007.0
12.5°	1597.7	1600.8	1602.1	1616.1	1606.9	1591.6	1536.3	1496.0	1430.6	1285.9	1081.1
15°	1665.7	1664.8	1680.2	1706.9	1721.8	1712.2	1667.9	1634.1	1554.3	1394.2	1160.9
17.5°	1681.5	1682.4	1706.5	1753.4	1802.1	1825.8	1800.8	1760.4	1681.5	1501.2	1243.8
20°	1694.2	1696.0	1721.0	1774.5	1845.5	1911.7	1915.7	1886.7	1818.8	1617.0	1328.0
22.5°	1774.5	1778.4	1785.0	1818.8	1882.8	1966.6	2012.6	2006.5	1949.5	1738.5	1418.8
25°	1985.4	1973.6	1941.6	1931.9	1956.5	2024.4	2103.0	2114.8	2086.7	1872.3	1516.6
27.5°	2245.9	2233.2	2185.8	2135.8	2082.8	2106.5	2190.2	2225.8	2226.2	2019.6	1614.8
30°	2482.3	2472.2	2433.6	2362.2	2270.5	2236.3	2298.1	2345.9	2374.4	2189.8	1726.7
32.5°	2684.5	2675.3	2623.1	2564.8	2475.3	2406.4	2428.8	2474.9	2541.5	2410.0	1865.7
35°	2854.7	2845.5	2795.5	2736.7	2653.8	2612.6	2604.7	2636.3	2722.7	2639.8	2025.3
37.5°	2992.8	2983.6	2931.4	2876.2	2813.0	2815.6	2827.5	2842.8	2892.4	2885.8	2195.9
40°	3082.3	3072.6	3035.4	2995.9	2956.0	2987.6	3046.3	3027.9	3054.2	3084.5	2352.9
42.5°	3122.2	3109.9	3088.4	3079.7	3067.4	3116.5	3229.6	3211.2	3179.6	3216.9	2469.6
45°	3082.3	3071.8	3071.3	3098.1	3126.6	3189.7	3356.4	3341.5	3261.7	3281.0	2539.3
47.5°	2959.9	2950.7	2975.7	3045.9	3116.1	3208.2	3413.0	3415.6	3320.0	3307.7	2584.5
50°	2695.5	2689.3	2761.7	2894.6	3015.6	3150.7	3395.0	3425.2	3334.0	3299.4	2578.8
52.5°	2157.8	2186.3	2343.7	2565.6	2800.7	3049.8	3328.3	3367.8	3266.5	3244.6	2548.1
55°	1477.1	1490.3	1647.7	1971.8	2344.6	2831.4	3175.3	3236.2	3186.7	3235.3	2580.1
57.5°	764.9	775.4	899.5	1187.2	1590.3	2237.6	2750.3	2950.3	3025.7	3281.8	2679.7
60°	314.0	322.8	374.1	513.1	802.1	1303.0	1979.3	2275.8	2452.9	2997.2	2379.7
62.5°	228.1	232.4	257.0	306.1	420.2	638.6	1120.1	1229.3	1353.9	1878.4	1510.9
65°	192.1	196.9	216.7	246.5	306.6	391.6	478.5	481.1	530.2	765.3	560.1
67.5°	161.0	165.3	182.9	208.3	247.8	278.1	257.0	257.4	256.6	277.6	268.4
70°	125.4	128.9	146.5	173.7	194.3	178.5	200.9	222.4	213.1	221.5	234.2
72.5°	91.7	95.6	111.0	131.6	126.3	127.2	162.7	184.6	179.4	188.6	200.4
75°	66.2	68.9	76.8	65.8	69.3	83.8	114.5	126.3	131.6	139.5	150.0
77.5°	21.5	21.5	24.1	30.3	37.7	46.5	58.3	63.2	71.0	79.8	87.3
80°	11.0	11.4	13.6	16.7	21.1	26.8	34.2	36.4	40.3	45.2	48.2
82.5°	5.3	5.7	6.6	8.3	11.0	14.0	18.9	21.1	23.7	26.8	28.9
85°	1.3	1.3	1.8	2.6	3.5	5.3	7.0	8.3	10.5	12.7	14.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.4	1.3	1.8	2.2	2.6	3.5
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°	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7
2.5°	831.1	806.5	775.0	748.2	723.6	704.8	688.6	680.7	673.2	667.9	669.7
5°	853.9	811.8	753.0	712.2	687.2	674.5	665.8	661.4	660.5	657.0	655.7
7.5°	887.2	827.1	748.6	707.4	690.8	684.2	679.3	676.7	678.0	674.5	673.2
10°	928.5	852.6	759.6	723.2	708.7	703.9	698.6	695.1	693.4	688.1	687.2
12.5°	979.8	884.2	779.3	743.4	728.9	720.6	713.6	707.4	703.5	696.9	695.1
15°	1035.0	919.2	802.6	763.1	746.0	733.7	722.3	713.1	706.1	697.3	696.0
17.5°	1095.1	956.1	821.9	776.7	754.8	738.6	721.9	708.3	698.6	687.2	685.9
20°	1157.8	993.4	836.4	783.3	755.2	733.3	710.9	692.9	680.7	669.3	668.4
22.5°	1222.7	1027.6	845.1	781.5	748.2	721.0	694.3	674.1	659.6	646.0	645.1
25°	1288.1	1060.5	847.3	774.5	734.2	702.6	675.8	652.2	635.9	620.6	618.8
27.5°	1354.3	1088.1	842.1	760.5	715.3	681.1	654.3	631.1	614.4	599.1	596.5
30°	1424.9	1111.8	830.7	742.1	693.4	658.3	632.0	614.4	598.7	583.3	580.7
32.5°	1500.4	1132.4	814.4	719.7	667.9	635.5	616.2	600.4	584.6	571.0	568.4
35°	1590.3	1146.0	790.3	690.8	644.3	618.8	605.7	587.2	568.0	553.0	551.7
37.5°	1683.2	1156.5	761.4	663.1	623.6	609.2	598.2	573.2	549.1	531.1	528.9
40°	1773.1	1165.3	725.4	637.2	604.8	602.2	587.2	556.1	514.4	494.3	492.5
42.5°	1856.9	1167.9	687.7	609.6	587.7	586.4	569.7	521.5	489.4	476.7	475.0
45°	1914.4	1165.7	648.6	583.7	570.6	563.6	546.0	496.5	476.7	465.3	463.1
47.5°	1956.9	1154.3	604.8	556.5	551.3	541.6	503.9	480.7	462.3	450.9	448.7
50°	1949.5	1107.0	560.5	530.2	528.0	519.7	473.2	460.9	444.7	432.4	430.7
52.5°	1910.9	1017.0	515.3	501.3	505.7	489.4	451.3	437.3	423.2	409.2	406.1
55°	1920.5	952.1	481.1	473.2	481.1	444.3	426.7	411.8	398.7	385.1	382.4
57.5°	1962.6	888.1	444.7	443.0	451.3	409.6	395.2	376.3	357.4	346.5	346.5
60°	1648.2	647.3	380.7	385.1	403.9	381.6	368.8	349.5	328.9	319.3	319.3
62.5°	974.5	406.1	315.8	310.9	322.8	336.8	343.8	328.1	303.5	290.8	291.2
65°	429.4	295.6	278.5	274.5	271.0	280.7	300.0	301.3	275.4	260.5	261.0
67.5°	264.5	267.5	260.5	257.4	254.4	252.6	250.9	251.7	244.7	231.1	230.7
70°	238.6	246.9	242.1	239.5	235.5	232.4	221.9	204.8	193.0	189.5	193.4
72.5°	205.3	216.7	214.0	212.7	207.9	200.4	186.4	169.7	155.7	146.9	148.7
75°	154.8	164.0	165.3	165.8	160.5	153.5	139.0	125.0	112.7	103.5	105.7
77.5°	89.0	94.3	95.6	96.9	93.0	90.3	80.7	70.6	64.0	54.4	57.0
80°	49.6	51.8	51.8	52.2	50.0	46.9	40.3	34.6	31.6	27.2	27.6
82.5°	29.8	30.7	31.1	31.6	30.3	27.2	22.4	18.4	16.7	14.5	14.0
85°	14.5	15.4	15.4	15.8	13.6	11.8	9.2	7.0	6.1	4.4	4.8
87.5°	3.5	3.9	3.9	3.5	3.1	2.2	1.3	0.4	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)