

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: P632281

Luminaire Tested: GWS-SA2C-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

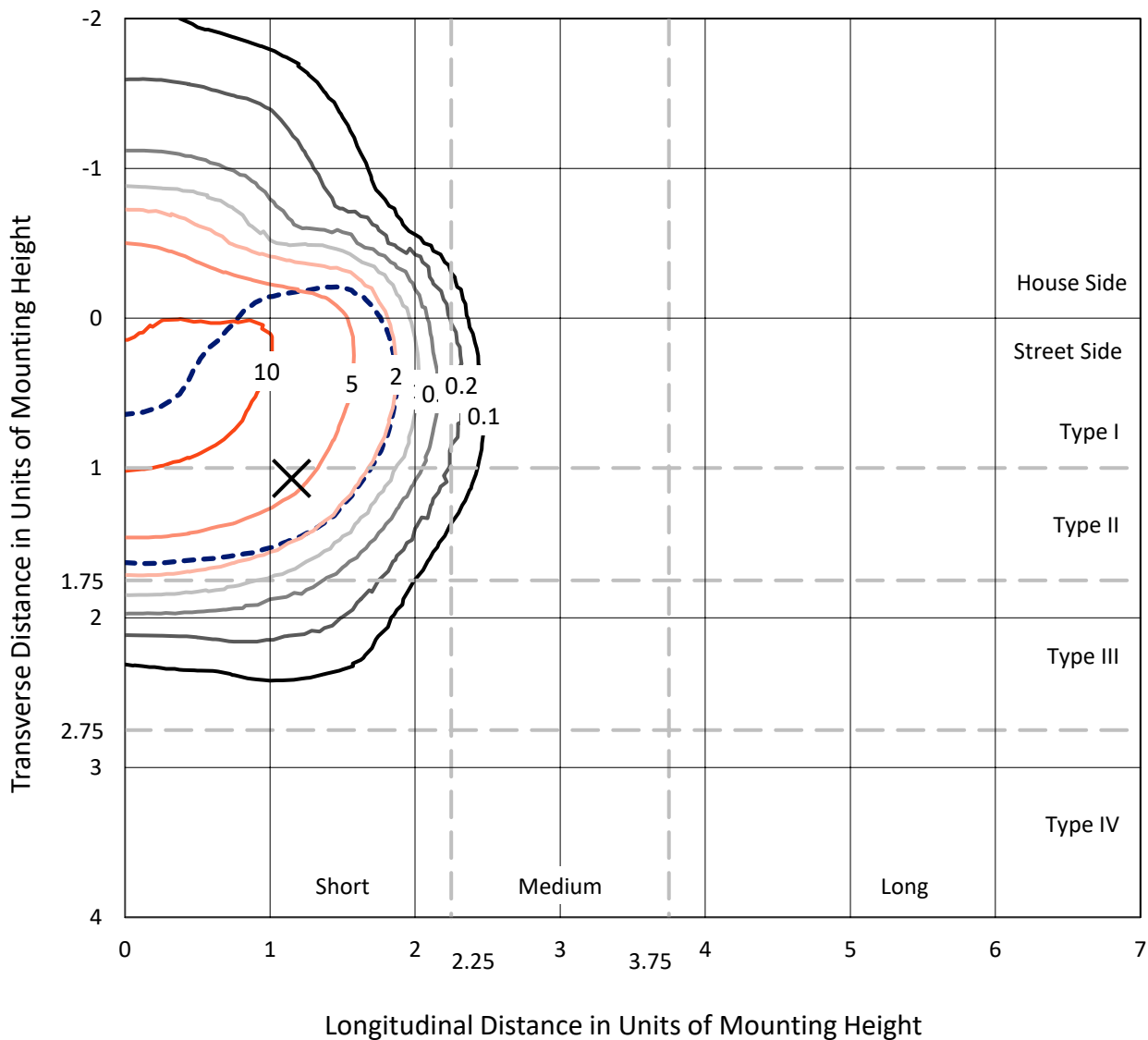
Lumens per Lamp: N/A  
Luminaire Lumens: 5636.9 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

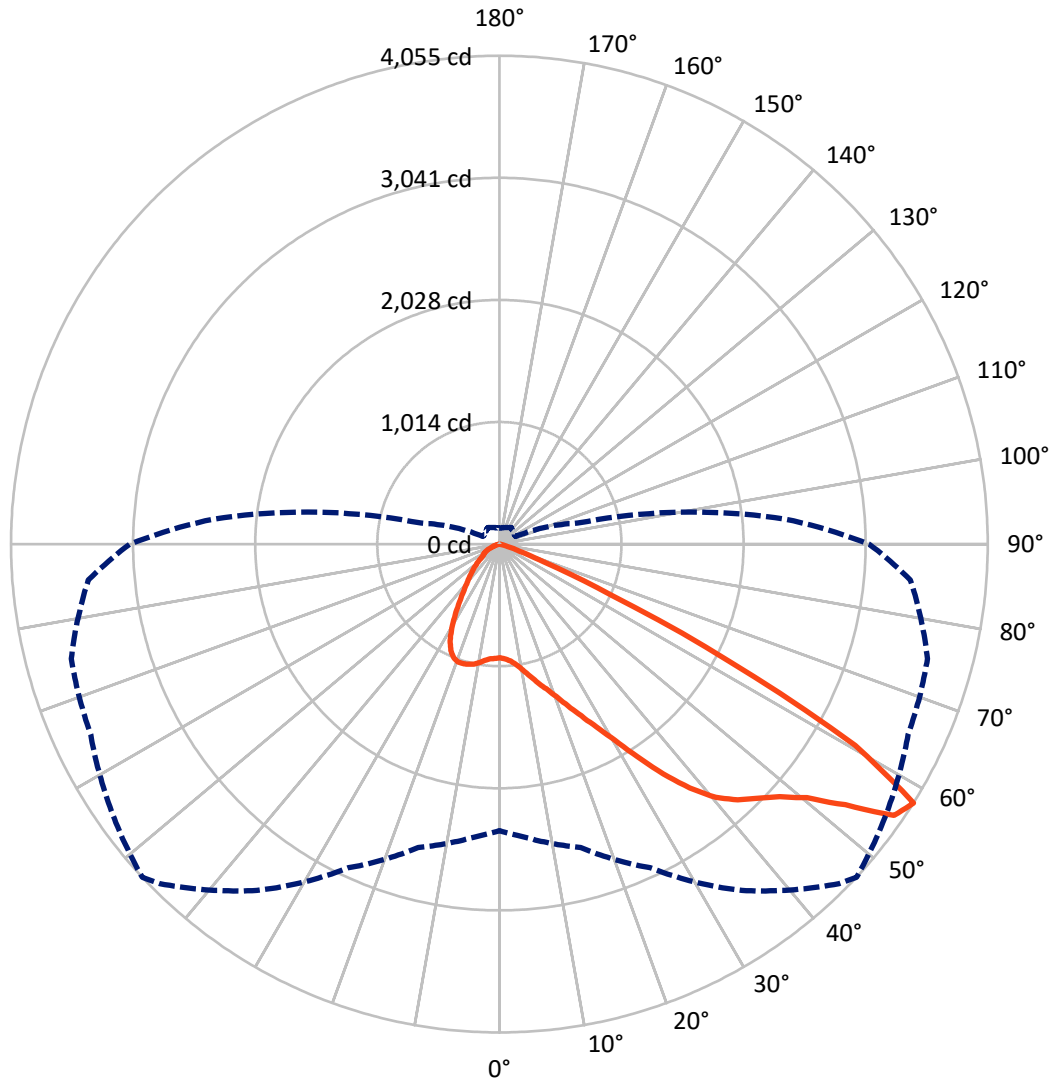
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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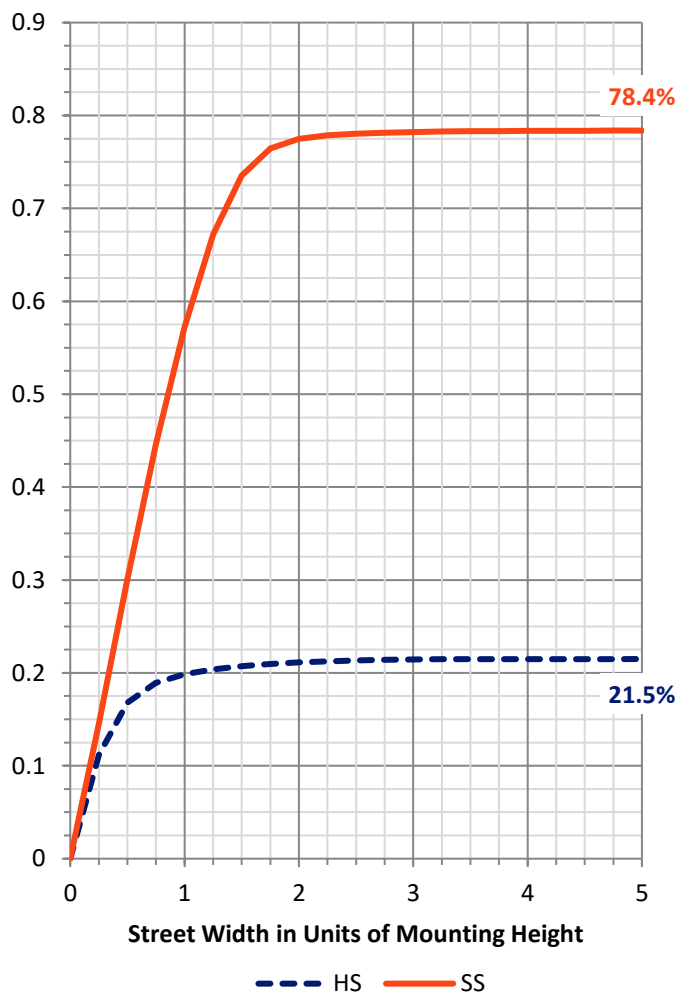
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1222.9	0.0	1222.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	4414.0	0.0	4414.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	5636.9	0.0	5636.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.9	1.7
10°-20°	316.8	5.6
20°-30°	588.2	10.4
30°-40°	941.5	16.7
40°-50°	1376.3	24.4
50°-60°	1698.6	30.1
60°-70°	567.6	10.1
70°-80°	52.9	0.9
80°-90°	1.1	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°	5636.9	100.0
0°-180°	5636.9	100.0

**Coefficient of Utilization**



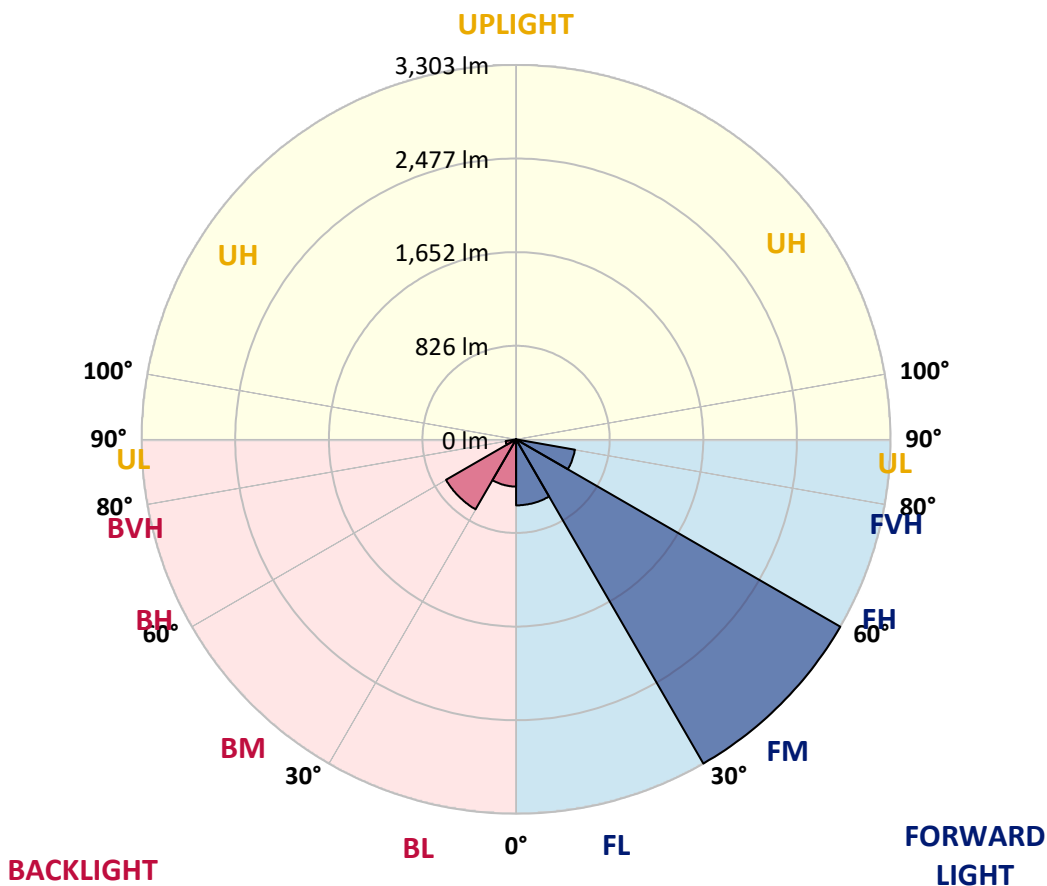
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.6	10.3			
FM (30°-60°)	3303.2	58.6			
FH (60°-80°)	527.5	9.4			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	416.3	7.4	B1/500		
BM (30°-60°)	713.3	12.7	B1/1000		
BH (60°-80°)	93.0	1.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	953.4	952.8	952.1	956.1	954.7	954.1	955.4	955.4	955.4	951.5	943.6
5°	976.3	976.3	975.7	979.6	976.3	974.4	975.0	975.0	972.4	965.2	955.4
7.5°	1012.3	1011.0	1009.7	1013.6	1010.4	1009.7	1011.0	1007.1	1002.5	990.7	977.0
10°	1064.0	1064.0	1062.1	1066.0	1063.4	1062.1	1062.1	1059.4	1050.9	1032.6	1012.3
12.5°	1135.4	1132.1	1127.5	1124.2	1122.9	1122.3	1122.9	1119.0	1109.8	1086.3	1058.1
15°	1213.2	1210.6	1203.4	1198.2	1191.0	1189.7	1193.6	1190.3	1181.2	1149.1	1109.2
17.5°	1311.4	1314.7	1296.3	1285.2	1264.3	1263.0	1264.3	1269.5	1263.0	1221.7	1163.5
20°	1395.1	1397.8	1384.0	1376.2	1357.2	1348.7	1351.3	1359.8	1352.6	1304.2	1223.0
22.5°	1484.8	1488.1	1473.7	1457.3	1448.8	1448.8	1458.6	1470.4	1460.6	1397.1	1291.1
25°	1592.1	1594.7	1583.0	1561.4	1546.3	1565.3	1579.7	1611.1	1594.7	1508.4	1371.6
27.5°	1715.1	1715.8	1698.8	1676.5	1668.7	1704.0	1718.4	1766.8	1760.3	1633.3	1456.7
30°	1846.7	1847.3	1843.4	1828.4	1821.2	1867.6	1887.2	1957.3	1952.7	1788.4	1572.5
32.5°	1983.4	1983.4	1990.6	1989.3	1997.8	2073.7	2105.2	2185.0	2180.4	1978.2	1716.5
35°	2120.9	2121.5	2133.9	2165.4	2200.7	2301.5	2342.7	2439.5	2429.1	2205.3	1900.3
37.5°	2277.3	2270.7	2287.7	2334.8	2413.4	2529.9	2569.1	2661.4	2649.6	2437.6	2140.5
40°	2465.7	2453.9	2453.9	2508.9	2597.9	2732.1	2765.4	2811.2	2771.3	2625.4	2376.1
42.5°	2673.8	2662.7	2648.3	2696.7	2771.3	2876.0	2903.5	2891.1	2858.4	2802.7	2644.4
45°	2884.5	2867.5	2877.3	2906.8	2950.0	2999.7	3010.2	2952.6	2937.5	2953.2	2866.2
47.5°	3044.9	3033.1	3057.3	3098.5	3133.8	3141.0	3133.8	3054.0	3052.7	3108.3	3020.0
50°	3098.5	3099.8	3166.6	3256.9	3313.8	3319.7	3309.9	3218.3	3205.8	3222.2	3103.1
52.5°	3103.7	3109.0	3206.5	3378.6	3533.7	3604.4	3596.5	3497.7	3376.0	3358.3	3228.7
55°	2977.5	3008.2	3144.3	3395.6	3725.4	3951.2	3977.4	3788.2	3607.6	3592.6	3499.0
57.5°	2380.0	2442.8	2607.1	2965.0	3511.4	3987.2	4055.2	3919.1	3744.4	3680.3	3426.4
60°	1422.6	1500.5	1658.2	2097.3	2672.5	3277.2	3394.3	3413.3	3332.8	3147.6	2628.7
62.5°	610.5	604.0	798.3	1134.7	1589.5	2082.9	2135.9	2218.4	2288.4	2094.7	1595.4
65°	209.4	227.7	316.7	511.7	795.7	967.2	1014.3	1088.2	1187.7	980.3	584.4
67.5°	129.6	137.4	182.6	302.3	429.3	422.7	401.8	390.0	379.5	259.8	160.3
70°	94.2	100.8	128.3	208.1	288.6	202.9	176.0	142.7	158.4	145.9	113.9
72.5°	63.5	68.7	88.3	126.3	147.9	98.8	91.6	104.0	125.6	119.8	92.9
75°	38.0	41.2	50.4	61.5	60.2	51.0	51.7	73.3	96.2	89.7	66.1
77.5°	26.2	27.5	33.4	39.9	29.4	15.7	14.4	20.3	32.7	32.7	22.2
80°	6.5	8.5	8.5	5.2	4.6	3.9	3.9	5.9	9.2	6.5	3.3
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
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°	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6	943.6
2.5°	948.2	940.4	945.6	944.3	948.2	949.5	943.6	942.3	943.0	935.1	932.5
5°	957.4	948.2	950.8	948.2	952.8	956.7	954.7	957.4	960.6	954.7	952.1
7.5°	977.0	967.8	967.2	963.3	969.8	972.4	971.8	979.0	985.5	981.6	977.7
10°	1011.0	998.6	997.3	994.0	996.0	997.9	990.7	992.0	997.9	993.4	991.4
12.5°	1052.9	1037.9	1034.6	1026.7	1026.7	1016.9	1001.2	997.9	1002.5	999.2	996.0
15°	1098.1	1077.8	1072.5	1058.8	1045.7	1027.4	1011.0	1007.1	1010.4	1006.4	1003.8
17.5°	1148.4	1125.5	1108.5	1084.3	1055.5	1033.9	1015.6	1007.1	1001.9	994.0	993.4
20°	1198.2	1168.1	1139.3	1100.7	1062.7	1030.0	999.9	977.7	958.7	946.9	942.3
22.5°	1255.8	1211.3	1164.8	1110.5	1056.2	1006.4	953.4	915.5	882.8	871.6	866.4
25°	1317.3	1259.7	1190.3	1119.7	1033.9	954.1	882.1	825.8	782.6	768.2	762.4
27.5°	1385.3	1306.2	1216.5	1117.7	988.1	879.5	784.0	713.9	671.4	658.3	662.9
30°	1471.7	1366.4	1249.2	1097.4	919.4	774.8	662.9	604.0	571.9	559.5	560.2
32.5°	1586.9	1452.7	1297.0	1054.2	831.1	655.7	557.5	514.3	492.8	476.4	475.1
35°	1751.8	1584.3	1341.5	984.8	723.7	549.7	478.4	444.3	414.2	395.2	398.5
37.5°	1949.4	1749.8	1365.7	891.3	603.3	467.2	418.8	384.1	350.1	322.0	325.2
40°	2183.7	1966.4	1363.7	768.2	493.4	411.0	369.1	328.5	286.0	260.4	263.1
42.5°	2444.8	2171.2	1321.2	638.0	409.0	365.1	321.3	270.3	229.0	213.3	214.0
45°	2671.2	2337.5	1246.6	503.2	344.2	320.6	271.6	219.2	200.9	189.8	189.1
47.5°	2838.7	2459.2	1139.9	395.9	291.9	280.1	223.1	196.3	181.9	172.8	171.4
50°	2932.3	2501.7	1022.1	310.2	246.7	237.5	199.6	178.0	168.2	162.3	161.0
52.5°	3057.9	2552.8	937.7	244.7	206.8	194.4	183.9	165.6	159.0	154.4	152.5
55°	3256.9	2651.6	864.4	194.4	172.1	169.5	173.4	158.4	154.4	147.2	144.6
57.5°	3069.7	2382.0	671.4	150.5	145.3	155.1	167.5	151.2	141.3	134.8	132.2
60°	2160.1	1583.6	337.7	121.1	129.6	145.3	157.7	136.8	127.0	128.3	127.0
62.5°	1191.0	792.5	151.8	101.4	112.6	128.3	134.8	118.4	111.9	123.0	125.0
65°	389.4	269.6	87.7	78.5	89.0	104.7	116.5	112.6	111.2	124.3	128.3
67.5°	119.8	89.0	59.5	56.3	61.5	77.2	98.2	121.7	130.9	134.8	136.8
70°	89.7	70.0	51.0	47.8	50.4	58.9	83.1	101.4	95.5	96.2	94.9
72.5°	72.0	55.6	43.8	41.9	41.9	40.6	43.8	55.0	62.2	65.4	65.4
75°	50.4	39.3	33.4	30.8	24.2	19.6	17.7	17.7	15.7	15.1	14.4
77.5°	17.0	14.4	13.1	10.5	7.2	5.9	5.2	4.6	3.3	2.0	1.3
80°	2.6	2.0	1.3	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0
82.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0
85°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	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)