

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: P632273

Luminaire Tested: GWS-SA2C-735-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

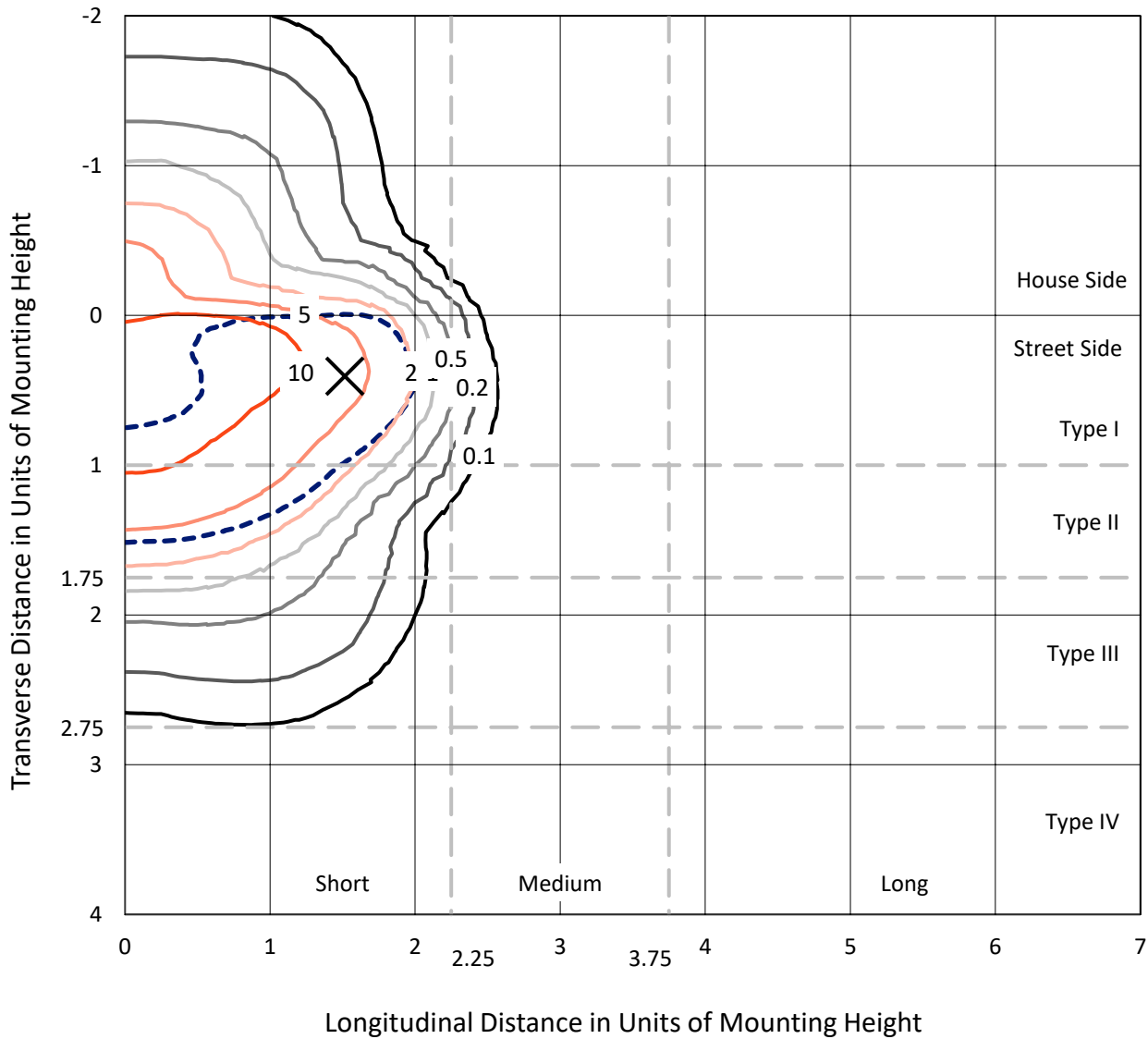
Lumens per Lamp: N/A  
Luminaire Lumens: 5422.3 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

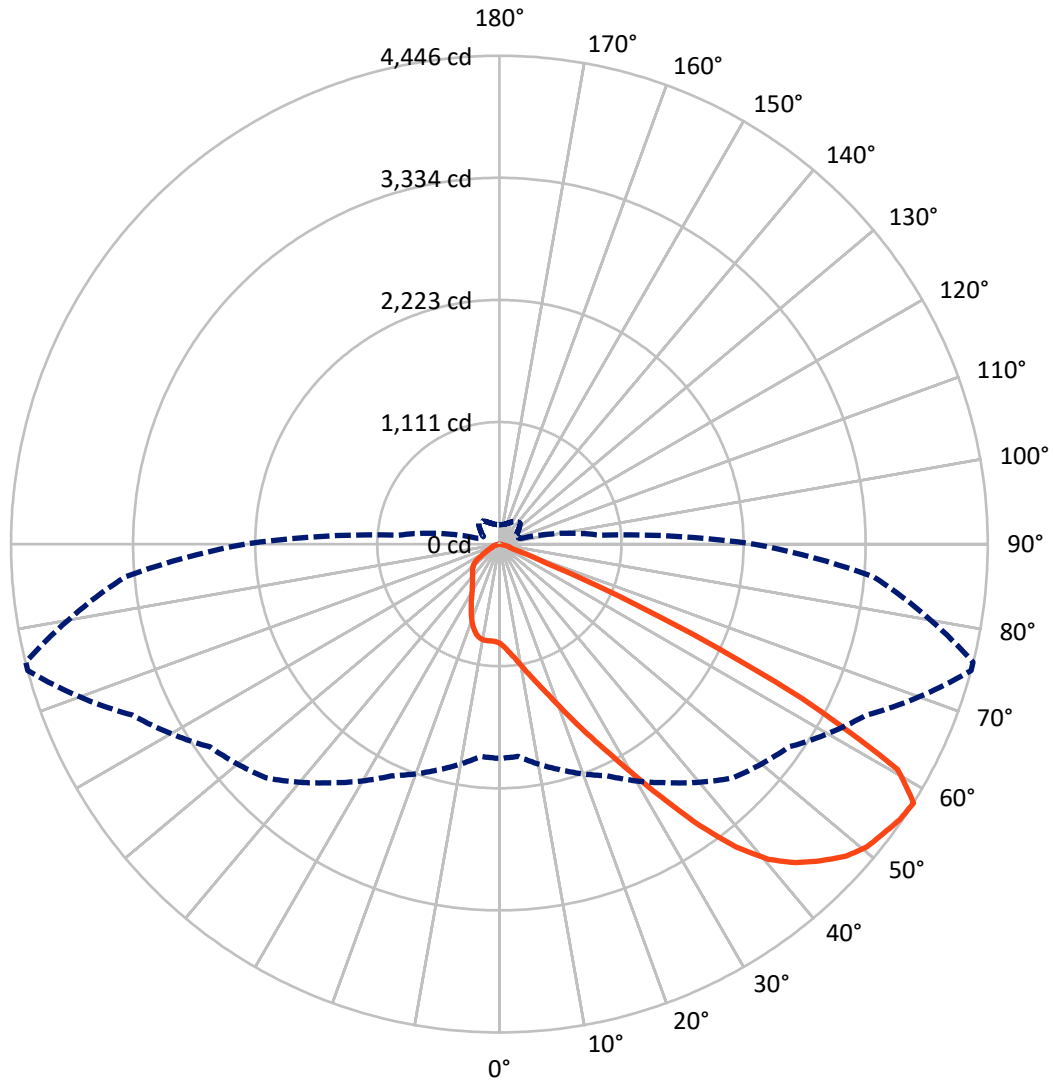
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 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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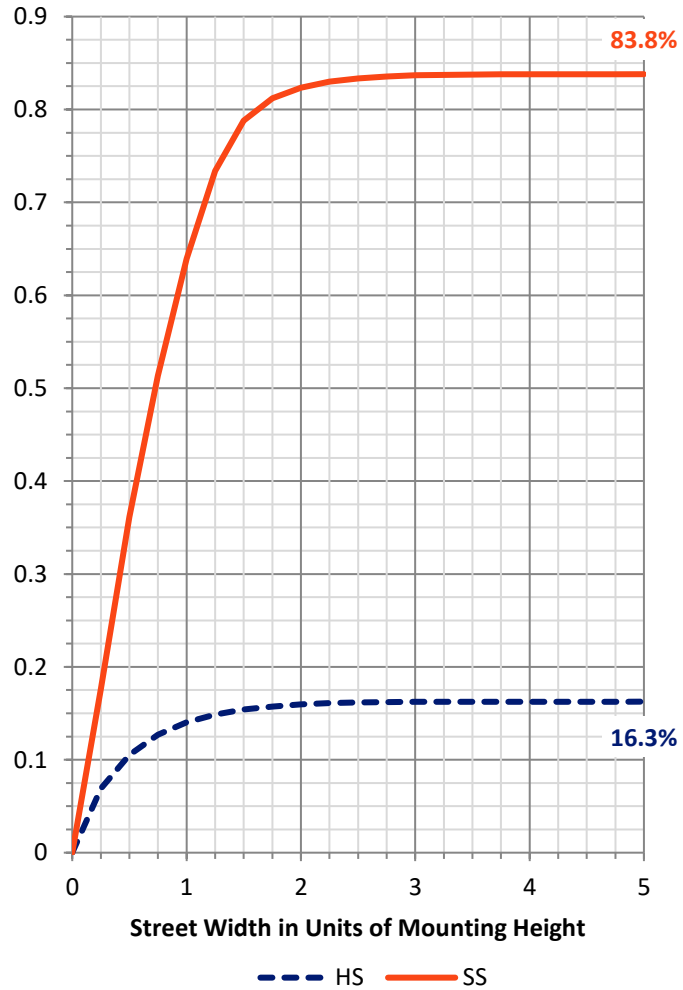
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	885.7	0.0	885.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	4536.6	0.0	4536.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	5422.3	0.0	5422.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.7
10°-20°	298.9	5.5
20°-30°	547.4	10.1
30°-40°	908.2	16.8
40°-50°	1387.1	25.6
50°-60°	1558.7	28.7
60°-70°	574.9	10.6
70°-80°	55.0	1.0
80°-90°	0.0	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°	5422.3	100.0
0°-180°	5422.3	100.0

**Coefficient of Utilization**



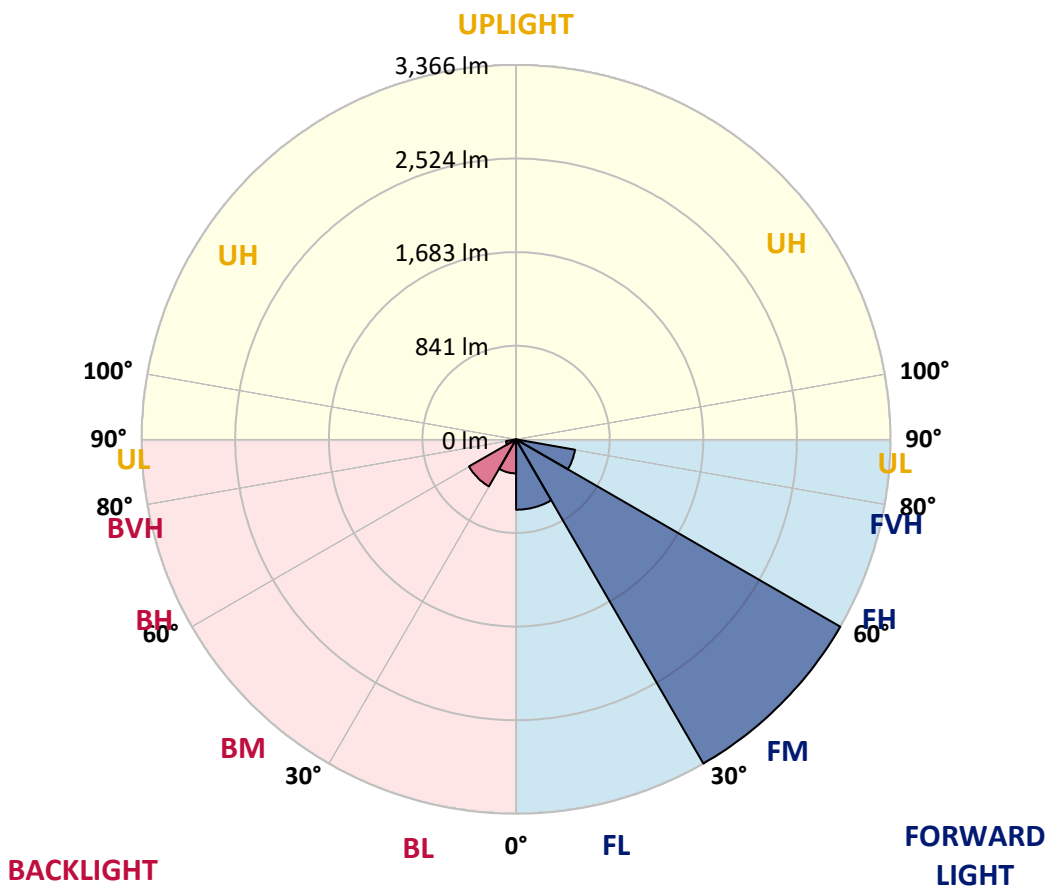
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.8	11.7			
FM (30°-60°)	3365.9	62.1			
FH (60°-80°)	537.9	9.9			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	305.6	5.6	B1/500		
BM (30°-60°)	488.1	9.0	B1/1000		
BH (60°-80°)	92.0	1.7	B0/110		G0/110
BVH (80°-90°)	0.0	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°	55°	65°	75°	76°	85°
0°	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4
2.5°	1010.4	1020.8	1017.6	1011.0	1007.1	993.4	984.9	960.0	942.3	940.4	924.0
5°	1138.0	1136.0	1133.4	1125.5	1119.0	1097.4	1071.9	1030.0	992.7	988.1	953.4
7.5°	1208.0	1209.3	1210.6	1209.3	1204.7	1188.4	1160.2	1111.2	1054.2	1050.3	995.3
10°	1236.8	1239.4	1246.0	1258.4	1269.5	1268.2	1251.8	1201.5	1131.4	1124.9	1050.9
12.5°	1250.5	1253.8	1264.3	1287.8	1317.9	1341.5	1344.1	1299.0	1221.7	1211.3	1117.0
15°	1269.5	1272.8	1285.9	1316.6	1360.5	1406.9	1437.0	1408.2	1321.9	1310.7	1189.7
17.5°	1278.0	1282.6	1301.6	1342.1	1399.1	1470.4	1538.5	1535.8	1440.3	1431.8	1274.1
20°	1294.4	1297.7	1314.7	1358.5	1427.2	1530.0	1644.5	1685.7	1584.9	1572.5	1376.2
22.5°	1346.1	1347.4	1355.2	1382.7	1446.9	1573.1	1752.5	1860.4	1755.7	1739.4	1490.7
25°	1430.5	1429.8	1433.1	1437.7	1484.8	1617.0	1856.5	2057.4	1951.4	1933.7	1620.3
27.5°	1537.8	1537.8	1545.7	1532.6	1551.6	1671.3	1959.2	2283.8	2179.1	2154.2	1762.3
30°	1664.1	1663.5	1681.8	1660.8	1666.7	1757.0	2069.8	2530.5	2454.0	2423.2	1925.9
32.5°	1835.6	1831.6	1852.6	1823.8	1804.1	1886.6	2204.6	2788.3	2783.1	2736.0	2131.3
35°	2052.2	2045.6	2052.2	2024.0	1988.7	2067.9	2381.3	3045.5	3148.3	3098.5	2376.1
37.5°	2267.5	2288.4	2295.6	2247.2	2218.4	2297.6	2594.0	3275.9	3497.0	3445.4	2630.6
40°	2521.4	2514.8	2539.7	2485.4	2467.0	2554.7	2802.1	3447.3	3773.2	3724.1	2857.1
42.5°	2708.5	2720.3	2751.0	2720.9	2706.5	2789.0	2976.8	3547.4	3964.9	3916.5	3018.7
45°	2933.0	2941.5	2953.3	2928.4	2913.3	2994.5	3103.1	3591.3	4110.9	4058.5	3127.3
47.5°	3175.7	3182.3	3182.3	3131.2	3082.8	3116.2	3187.5	3616.1	4245.0	4194.6	3207.8
50°	3349.8	3353.1	3381.9	3345.9	3240.5	3188.8	3226.1	3640.4	4334.0	4286.9	3234.0
52.5°	3195.4	3191.5	3286.3	3360.9	3389.1	3286.3	3292.9	3675.7	4377.2	4336.6	3254.9
55°	2690.8	2684.3	2817.8	2999.1	3247.1	3378.6	3373.4	3696.6	4425.0	4400.1	3330.8
57.5°	1950.7	1939.6	2125.5	2327.0	2652.2	3008.9	3218.3	3684.9	4445.9	4443.9	3419.2
60°	1172.7	1163.5	1338.9	1550.9	1802.2	2160.8	2508.3	3300.7	4165.8	4169.8	3189.5
62.5°	721.8	730.3	888.7	996.6	1090.2	1198.2	1399.1	2220.3	3086.1	3111.6	2241.3
65°	485.6	492.1	638.7	774.8	774.8	633.4	543.8	1061.4	1646.4	1603.3	1060.1
67.5°	325.9	333.1	448.9	607.9	630.8	441.7	220.5	316.7	458.7	445.0	262.4
70°	191.7	199.6	299.1	416.8	459.4	307.6	147.2	134.1	130.2	126.3	102.1
72.5°	85.7	89.0	152.5	212.0	193.7	129.6	104.0	107.3	101.4	99.5	83.1
75°	26.2	27.5	39.3	45.8	46.5	46.5	62.8	84.4	79.8	80.5	64.1
77.5°	6.5	6.5	10.5	9.8	5.2	4.6	11.8	19.0	19.6	17.7	13.1
80°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
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°	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4	904.4
2.5°	916.8	899.8	888.7	873.0	861.8	850.0	839.6	831.1	826.5	825.2	825.8
5°	937.7	910.9	884.7	854.6	833.7	814.1	798.4	785.9	780.0	778.1	778.1
7.5°	969.8	932.5	886.0	838.9	803.6	772.8	754.5	740.8	735.5	734.2	730.3
10°	1011.7	960.6	884.1	810.8	761.1	729.0	715.9	712.0	713.9	714.6	713.9
12.5°	1062.1	990.1	871.6	769.6	715.9	696.3	697.6	708.0	719.8	725.7	727.0
15°	1115.7	1016.9	843.5	720.5	677.3	676.6	695.6	719.8	742.7	752.5	755.2
17.5°	1175.9	1038.5	800.3	668.1	643.9	662.9	696.9	734.2	765.0	781.3	784.6
20°	1242.0	1056.2	745.3	619.1	614.5	648.5	695.6	741.4	779.4	797.7	801.0
22.5°	1310.7	1068.6	681.9	573.9	587.6	632.1	683.2	727.7	763.7	784.6	787.2
25°	1389.3	1069.9	617.1	535.9	562.8	609.9	653.1	689.7	719.8	738.1	740.1
27.5°	1458.0	1054.2	559.5	505.2	539.9	582.4	611.2	631.5	652.4	662.9	663.5
30°	1537.2	1026.7	505.2	480.3	516.3	548.4	562.8	567.4	569.3	571.3	568.7
32.5°	1631.4	993.4	464.6	456.1	489.5	511.1	515.0	505.8	494.7	479.0	475.1
35°	1747.2	963.3	431.2	432.6	460.0	473.1	469.9	450.2	428.6	409.6	406.4
37.5°	1872.9	937.7	405.7	409.6	428.0	437.1	427.3	405.7	395.9	379.5	380.2
40°	1984.1	916.8	382.8	386.7	395.3	403.8	388.1	373.7	392.0	390.7	392.0
42.5°	2063.3	899.1	363.2	361.2	367.1	373.0	361.2	354.0	384.8	376.3	380.9
45°	2109.7	882.8	346.8	335.0	344.2	354.7	346.8	337.7	348.1	308.9	305.6
47.5°	2141.2	873.6	332.4	309.5	325.9	344.2	327.8	305.6	290.5	256.5	253.9
50°	2144.4	869.0	315.4	283.3	304.3	323.9	304.9	274.2	252.6	237.5	235.6
52.5°	2161.4	878.2	291.9	250.0	272.9	304.3	291.2	260.4	231.0	217.9	215.3
55°	2237.4	916.8	252.6	204.2	237.5	289.2	280.1	232.3	204.2	196.3	194.4
57.5°	2315.9	924.7	198.9	161.6	206.8	267.6	255.9	214.0	186.5	177.3	175.4
60°	2117.6	761.7	149.2	133.5	182.6	247.4	236.9	202.9	170.8	159.7	157.7
62.5°	1391.2	411.6	118.4	113.2	153.8	209.4	215.9	183.2	152.5	140.7	140.0
65°	641.3	191.1	91.0	89.7	120.4	166.9	185.8	160.3	128.9	118.4	118.4
67.5°	174.7	94.9	71.3	66.1	81.8	111.9	135.5	119.8	91.6	79.2	78.5
70°	87.0	76.6	64.1	56.9	58.9	69.4	79.8	66.7	46.5	38.0	37.3
72.5°	71.3	62.8	54.3	48.4	44.5	42.5	41.2	33.4	21.6	16.4	15.7
75°	53.0	45.2	38.6	31.4	26.8	24.9	22.2	16.4	9.2	5.2	4.6
77.5°	11.8	11.1	10.5	7.9	7.2	5.9	4.6	3.3	1.3	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	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)