

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: P632283

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)  
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-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

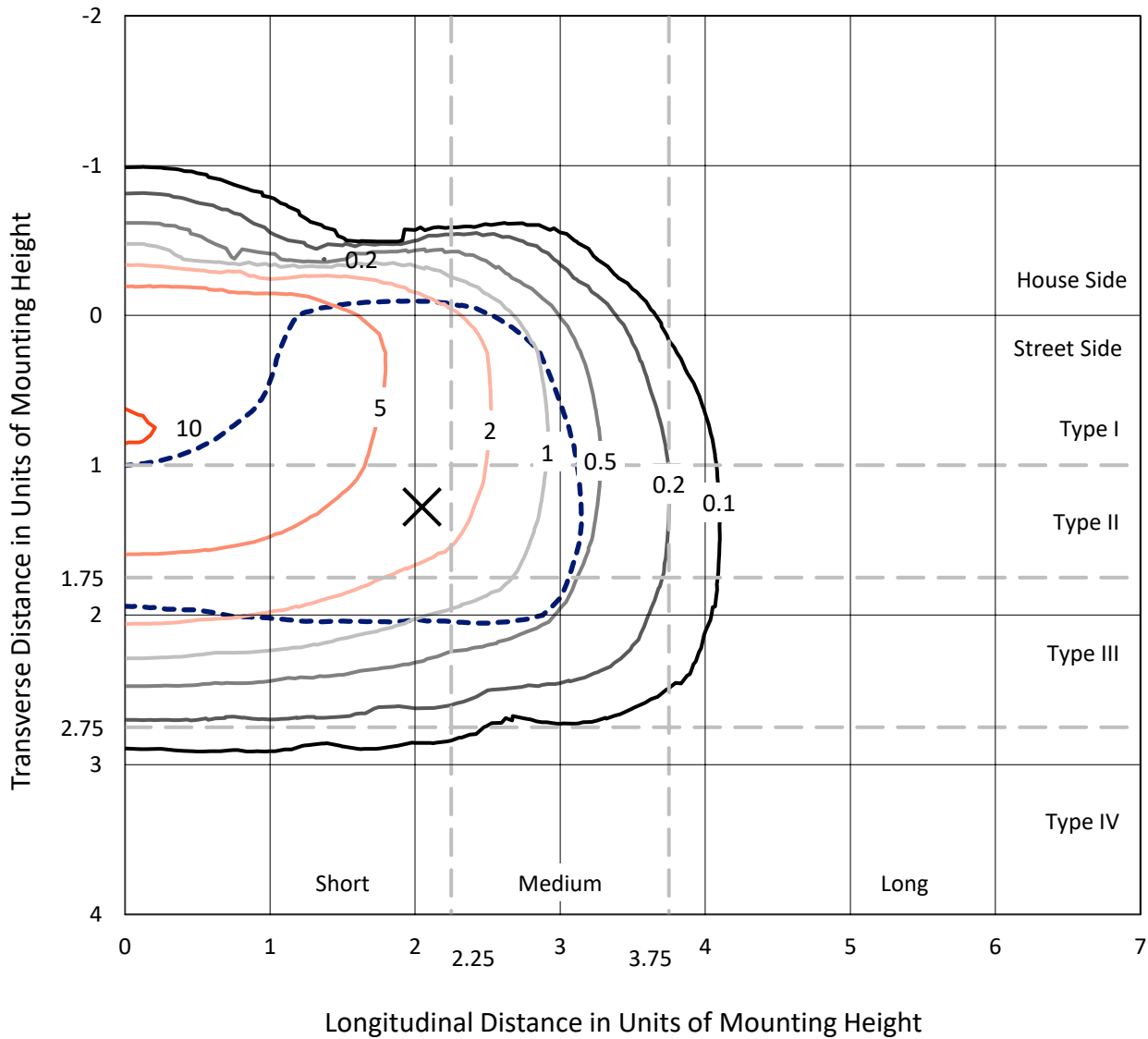
Lumens per Lamp: N/A  
Luminaire Lumens: 6701.6 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): 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

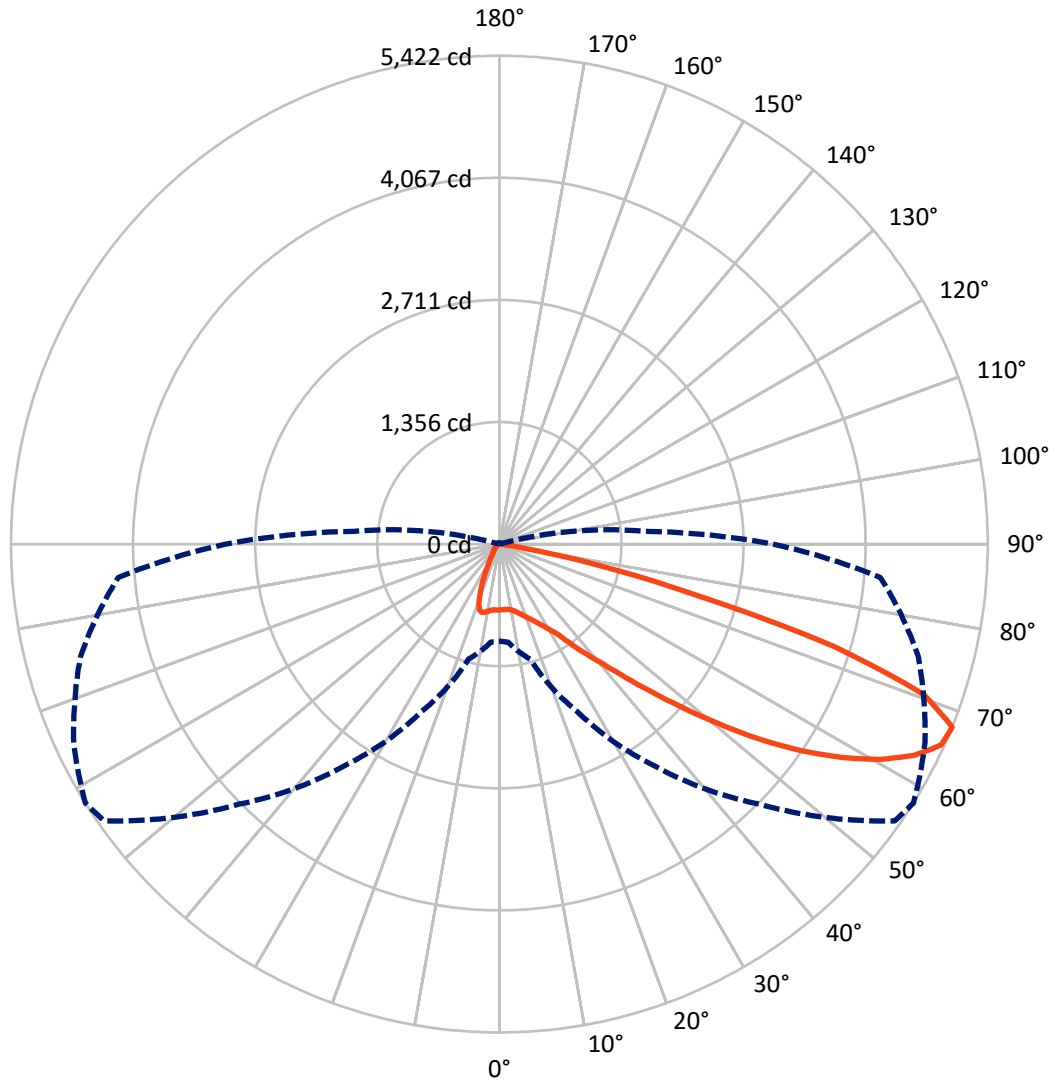
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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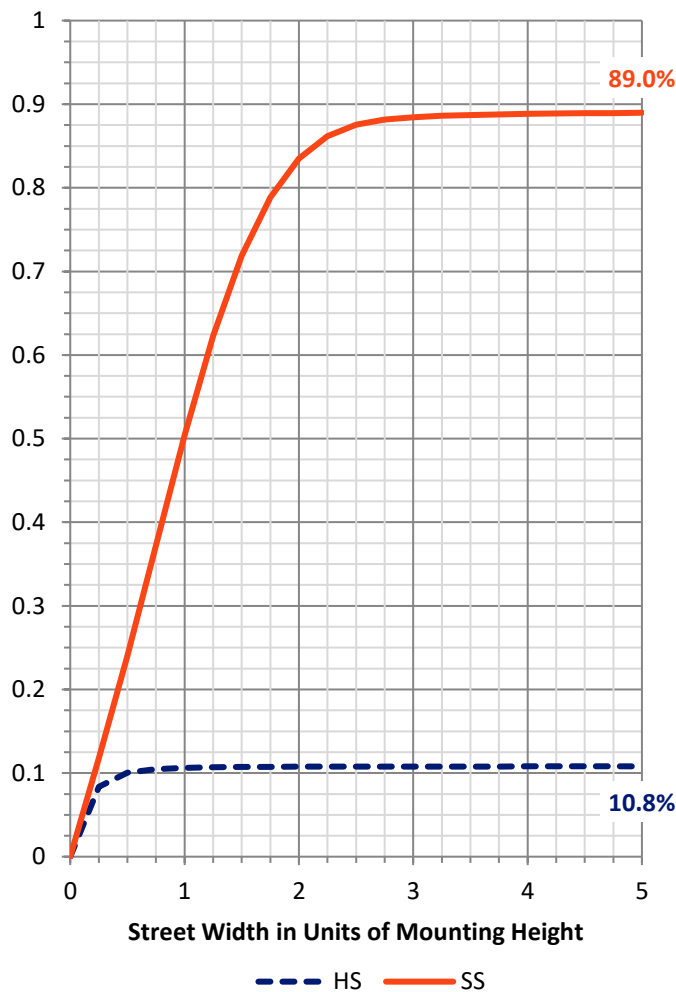
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	731.1	0.0	731.1
	% Fixture	10.9	0.0	10.9
<b>Street Side</b>	Lumens	5970.5	0.0	5970.5
	% Fixture	89.1	0.0	89.1
<b>Total</b>	Lumens	6701.6	0.0	6701.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	1.0
10°-20°	192.6	2.9
20°-30°	336.2	5.0
30°-40°	600.4	9.0
40°-50°	1097.5	16.4
50°-60°	1825.2	27.2
60°-70°	1982.5	29.6
70°-80°	582.1	8.7
80°-90°	16.6	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°	6701.6	100.0
0°-180°	6701.6	100.0

**Coefficient of Utilization**



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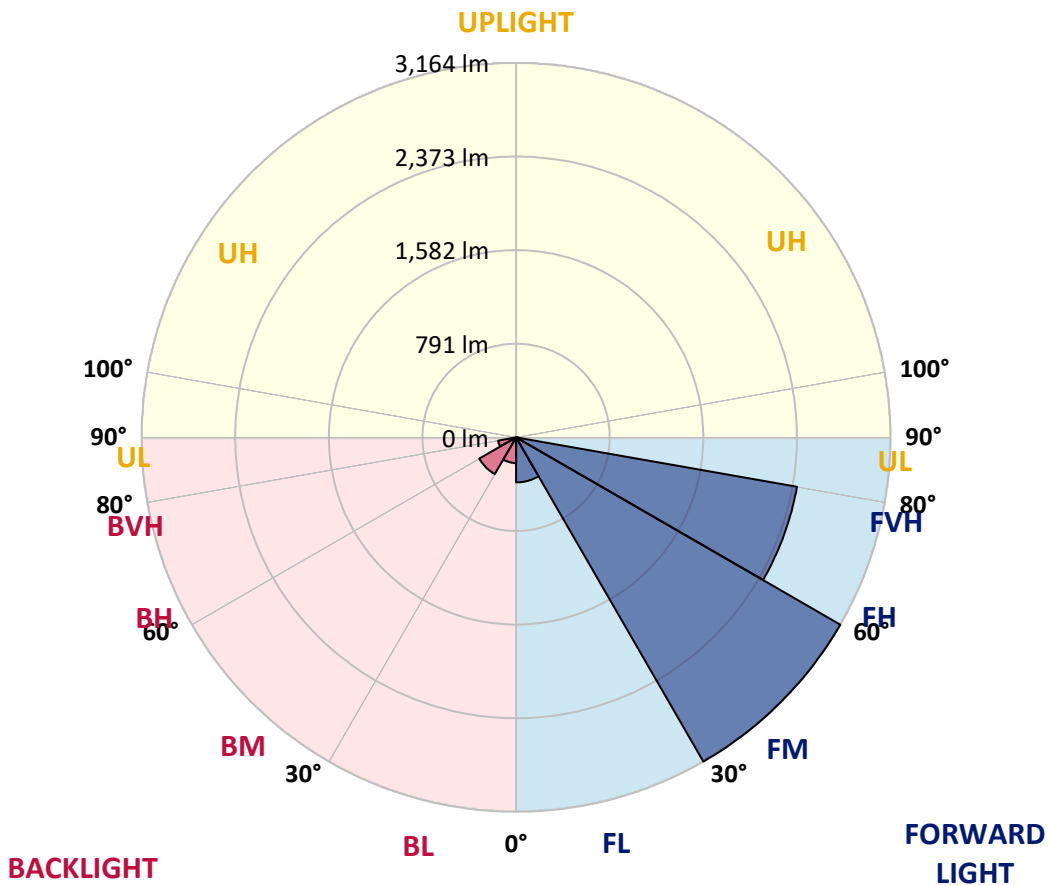
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.5	5.7			
FM (30°-60°)	3164.0	47.2			
FH (60°-80°)	2410.2	36.0			G2/5000
FVH (80°-90°)	15.8	0.2			G1/100
BL (0°-30°)	216.9	3.2	B1/500		
BM (30°-60°)	359.1	5.4	B1/1000		
BH (60°-80°)	154.3	2.3	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3
2.5°	716.5	715.2	715.2	720.5	721.1	723.7	729.6	730.3	733.5	732.2	727.7
5°	679.2	679.9	683.8	693.0	700.8	710.6	725.0	728.3	735.5	739.4	736.8
7.5°	644.6	645.2	651.1	665.5	680.5	700.2	723.7	730.3	744.7	755.1	755.8
10°	631.5	630.8	636.7	653.1	672.7	700.2	734.2	742.7	764.3	782.6	785.9
12.5°	635.4	634.7	640.6	655.7	677.3	712.0	752.5	764.3	791.8	819.9	825.8
15°	651.1	650.4	654.4	666.8	690.4	726.3	776.1	793.7	828.4	862.5	871.6
17.5°	698.2	694.9	691.0	692.3	706.1	743.4	806.2	827.8	871.0	911.5	919.4
20°	782.0	773.5	763.0	749.3	742.7	768.2	840.9	865.7	918.1	964.5	965.8
22.5°	908.3	905.0	880.8	840.9	812.7	813.4	881.4	910.2	974.4	1025.4	1018.2
25°	1084.3	1082.3	1045.0	979.6	906.3	881.4	933.1	962.6	1041.1	1095.4	1072.5
27.5°	1302.8	1289.1	1245.3	1156.9	1047.6	969.8	998.6	1024.7	1111.8	1162.8	1119.6
30°	1493.3	1493.9	1452.7	1360.4	1237.4	1102.6	1078.4	1101.3	1176.6	1230.2	1177.9
32.5°	1676.5	1682.4	1637.2	1554.1	1419.3	1276.0	1192.9	1196.8	1259.7	1317.9	1254.4
35°	1846.6	1851.2	1819.8	1749.1	1623.5	1457.3	1352.6	1350.6	1384.6	1444.2	1361.1
37.5°	2037.0	2041.6	2010.9	1947.4	1829.6	1664.7	1533.8	1531.2	1545.0	1593.4	1498.5
40°	2239.9	2248.4	2214.4	2160.7	2048.2	1908.8	1744.5	1721.0	1707.2	1764.2	1676.5
42.5°	2445.4	2458.5	2446.7	2393.0	2296.8	2181.7	2018.1	1981.4	1952.0	2023.3	1930.4
45°	2700.6	2716.3	2711.0	2669.8	2595.2	2501.6	2347.2	2304.7	2290.9	2357.0	2246.4
47.5°	2946.0	2963.0	2982.0	2972.8	2919.8	2876.6	2705.2	2680.9	2677.0	2747.7	2576.2
50°	3128.5	3144.2	3216.9	3269.2	3305.2	3296.0	3147.5	3111.5	3105.6	3150.8	2924.4
52.5°	3259.4	3274.5	3374.6	3538.2	3670.3	3742.3	3592.5	3584.6	3552.6	3536.9	3250.2
55°	3360.8	3381.8	3487.1	3734.5	4000.8	4160.5	4066.9	4038.8	3956.3	3866.0	3552.6
57.5°	3381.1	3389.6	3538.2	3871.9	4257.3	4515.8	4515.8	4466.7	4307.7	4182.7	3902.0
60°	3199.2	3225.4	3426.3	3860.8	4367.2	4748.1	4888.1	4854.1	4639.5	4485.7	4238.3
62.5°	2795.5	2824.9	3069.6	3594.4	4257.3	4795.9	5170.2	5164.9	4922.8	4736.3	4517.1
65°	2143.7	2165.3	2378.6	3006.8	3792.7	4612.0	5371.7	5386.1	5146.6	4901.9	4613.3
67.5°	1077.1	1092.1	1322.5	2054.1	3006.2	4082.6	5358.0	5422.1	5214.7	4814.2	4246.2
70°	376.3	391.3	499.9	881.4	1829.6	3117.4	4894.7	4999.4	4814.8	4109.4	3132.5
72.5°	128.9	136.1	207.4	327.2	712.0	1847.9	3722.0	3879.7	3549.3	2758.8	1800.2
75°	73.3	77.9	111.2	177.3	298.4	607.9	2111.6	2208.5	2069.1	1503.7	740.7
77.5°	49.7	53.7	69.4	100.8	164.9	195.7	861.1	1084.3	945.6	490.8	189.1
80°	29.4	32.1	42.5	59.5	84.4	75.9	184.5	245.4	316.1	146.6	56.9
82.5°	13.7	15.7	27.5	39.3	42.5	32.1	54.3	66.1	89.0	72.0	23.6
85°	0.0	0.0	9.2	16.4	15.7	9.2	15.1	16.4	24.2	36.0	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	1.3	2.0	3.9	7.2	3.9
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°	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3	730.3
2.5°	732.9	728.3	733.5	730.9	733.5	732.9	727.7	724.4	724.4	718.5	716.5
5°	742.1	737.5	738.8	732.9	731.6	728.3	721.8	719.1	719.1	713.3	711.3
7.5°	762.3	755.1	753.8	742.1	736.8	727.7	715.9	711.3	710.6	704.8	702.8
10°	794.4	785.9	780.0	765.0	749.9	731.6	706.7	685.8	674.0	658.3	657.0
12.5°	833.7	823.2	814.0	791.1	766.3	725.0	651.8	575.2	528.1	490.8	493.4
15°	877.5	867.7	853.3	818.6	767.6	660.3	507.1	389.3	331.8	301.0	299.7
17.5°	925.3	910.9	887.3	840.2	726.3	504.5	329.8	233.0	202.9	192.4	189.8
20°	969.8	952.1	922.7	844.8	607.3	341.6	206.1	180.6	175.4	172.1	172.1
22.5°	1016.9	994.6	950.8	809.5	451.5	218.6	175.4	169.5	165.6	161.0	160.3
25°	1064.7	1035.9	976.3	717.2	295.8	172.1	164.2	157.7	150.5	143.3	141.3
27.5°	1105.2	1067.9	995.9	579.8	189.8	155.1	149.9	138.7	128.9	121.1	119.7
30°	1153.6	1105.9	1004.5	424.0	149.2	136.8	128.9	117.1	105.4	97.5	94.9
32.5°	1218.4	1166.1	991.4	276.1	132.2	120.4	108.0	94.2	82.5	73.9	72.6
35°	1319.2	1257.0	931.2	176.0	119.7	104.0	89.0	74.6	64.8	58.2	56.9
37.5°	1442.2	1384.6	832.4	132.2	107.3	90.3	72.6	58.9	51.7	47.1	45.8
40°	1624.8	1544.3	710.0	115.8	94.9	76.6	59.5	48.4	43.2	39.3	38.0
42.5°	1861.7	1732.8	569.3	105.4	83.1	64.1	48.4	39.9	35.3	32.7	32.1
45°	2138.5	1916.6	420.8	94.9	72.0	53.0	39.9	32.7	29.4	27.5	26.8
47.5°	2421.8	2077.6	290.5	83.8	61.5	43.8	33.4	28.1	25.5	22.9	22.2
50°	2724.1	2213.7	198.3	72.6	52.3	36.0	28.8	25.5	22.2	20.3	19.6
52.5°	2946.0	2264.1	138.1	62.8	44.5	30.8	25.5	22.9	20.3	17.7	17.0
55°	3150.8	2262.8	104.7	53.0	38.0	26.8	22.9	20.3	17.7	15.7	15.1
57.5°	3354.9	2245.1	82.5	45.2	32.7	24.2	20.3	17.7	16.4	13.7	13.1
60°	3487.1	2178.4	64.1	38.0	28.1	20.9	17.7	15.7	13.7	11.8	11.1
62.5°	3557.1	2085.5	49.1	30.1	22.9	18.3	15.7	13.7	11.8	9.8	9.2
65°	3462.3	1920.6	38.6	23.6	17.7	15.7	13.1	11.1	9.2	7.2	6.5
67.5°	3041.5	1619.6	30.1	19.0	13.7	11.8	11.1	9.2	6.5	5.2	4.6
70°	2149.6	1109.2	23.6	14.4	10.5	9.2	8.5	7.2	5.2	3.9	3.3
72.5°	1179.8	559.5	17.0	10.5	7.9	7.2	6.5	5.9	4.6	3.3	3.3
75°	454.1	153.8	12.4	7.2	5.2	5.2	4.6	4.6	3.9	2.6	2.6
77.5°	118.4	45.8	7.9	4.6	3.3	3.3	3.3	2.6	2.6	2.0	2.0
80°	38.0	15.1	4.6	3.3	2.6	2.0	2.0	1.3	2.0	1.3	1.3
82.5°	12.4	5.2	2.6	2.6	2.0	1.3	1.3	0.7	0.7	0.0	0.0
85°	4.6	2.6	2.0	1.3	1.3	1.3	0.7	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	1.3	0.7	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)