

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: P637722

Luminaire Tested: GWS-SA4D-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-735-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

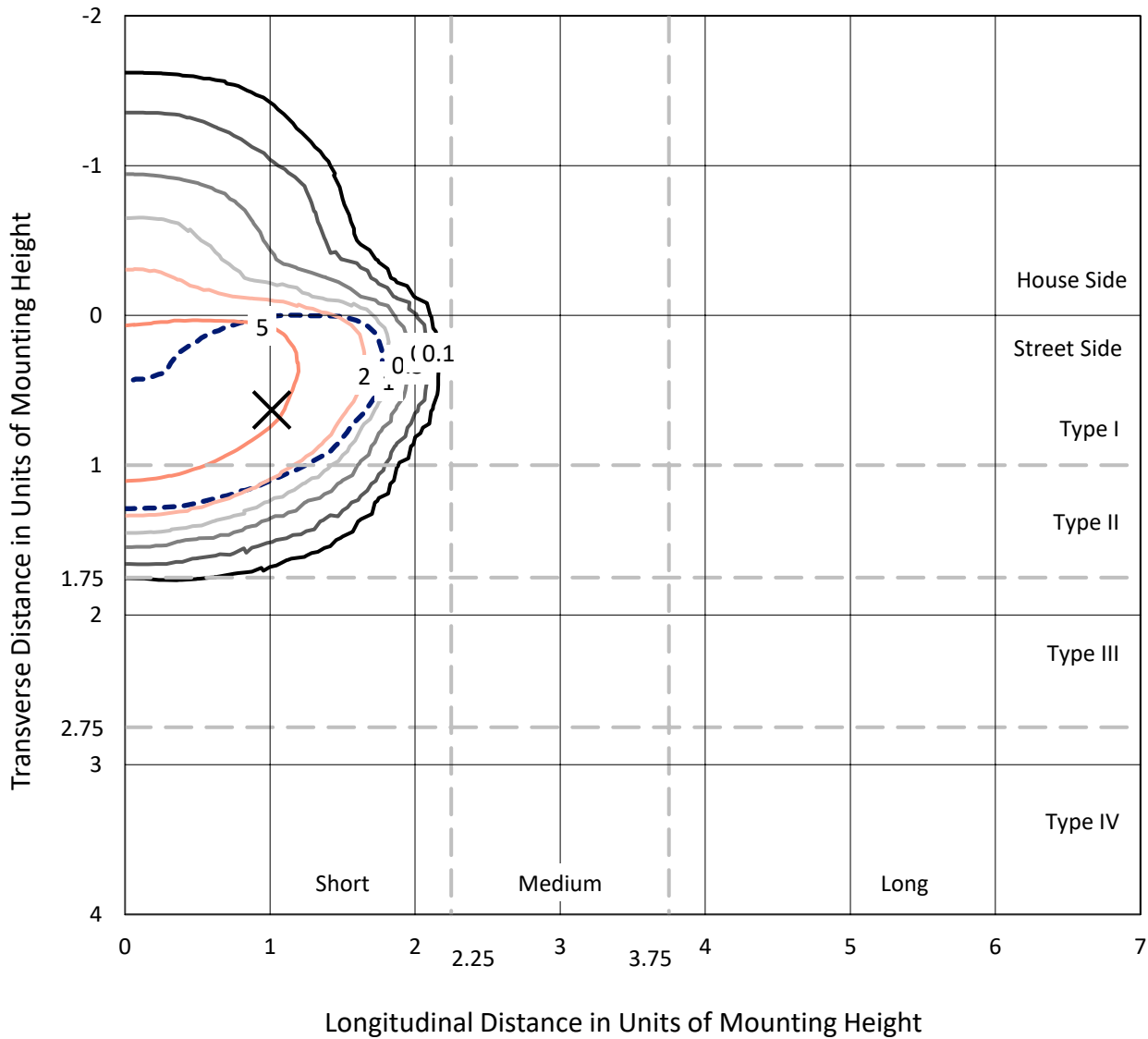
Lumens per Lamp: N/A  
Luminaire Lumens: 16191.1 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

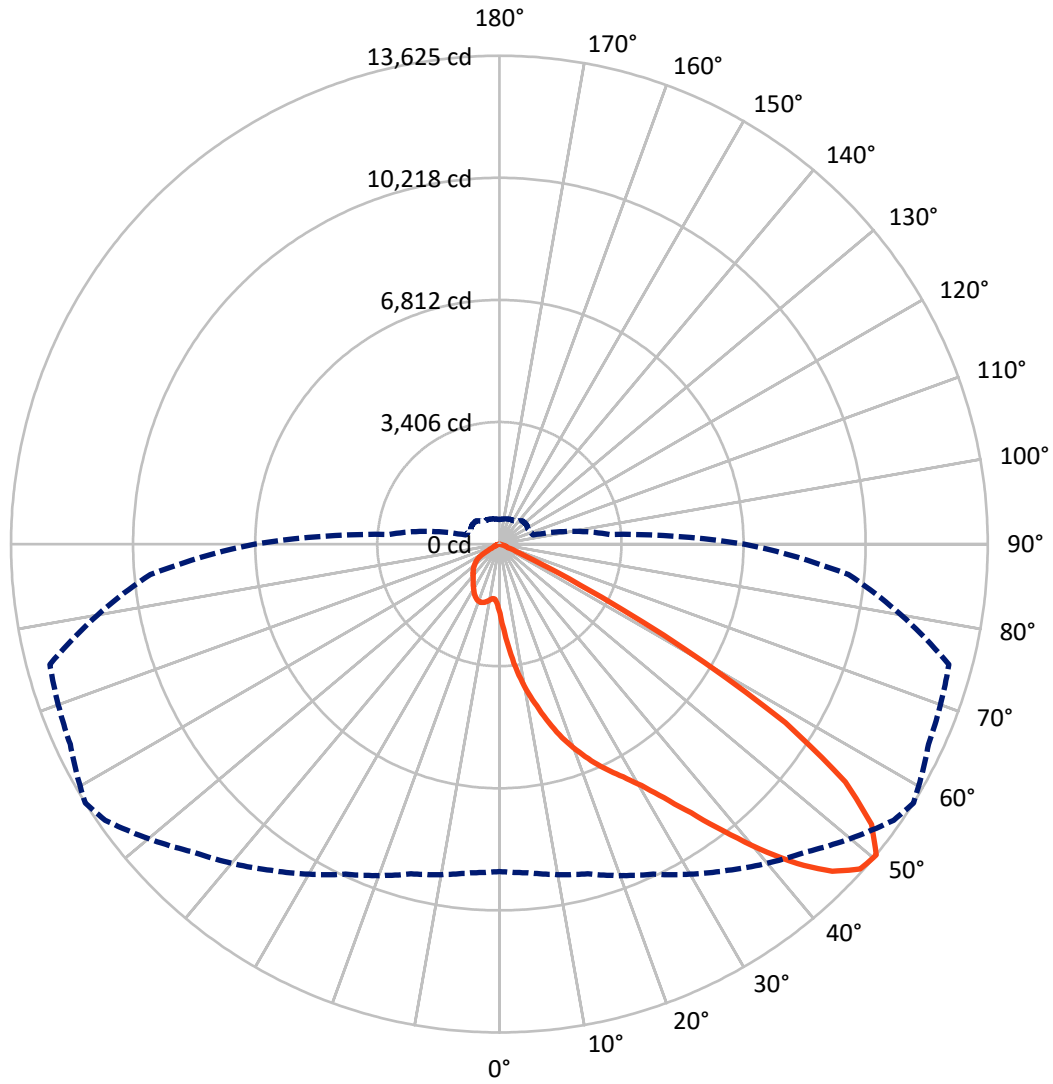
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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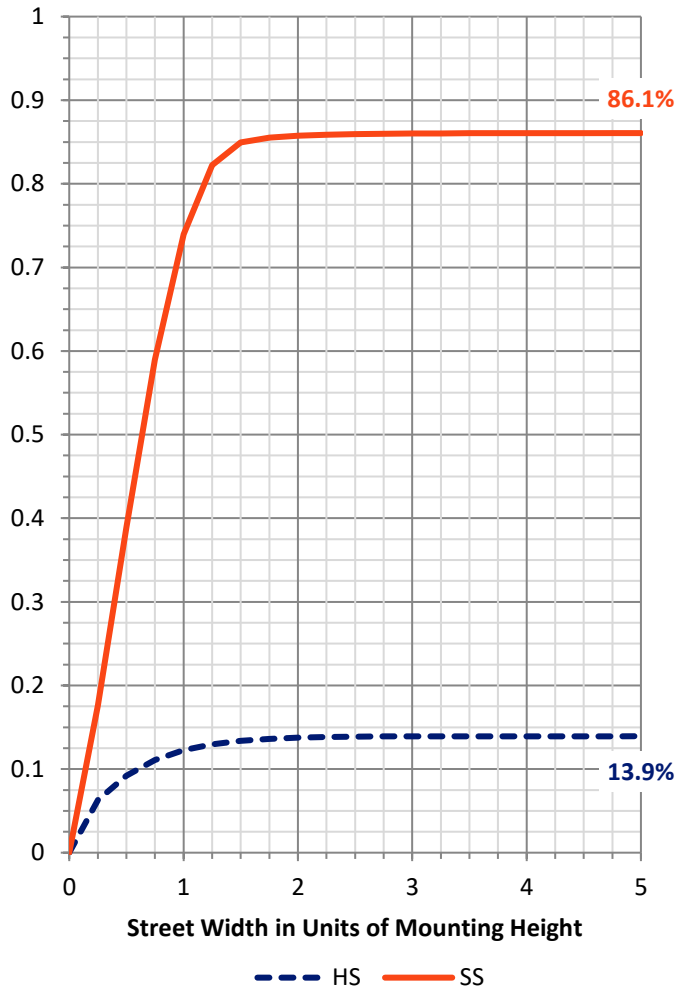
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2267.8	0.0	2267.8
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13923.3	0.0	13923.3
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	16191.1	0.0	16191.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.6	1.5
10°-20°	948.5	5.9
20°-30°	1919.3	11.9
30°-40°	3395.4	21.0
40°-50°	4949.8	30.6
50°-60°	3967.4	24.5
60°-70°	714.8	4.4
70°-80°	56.3	0.3
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°	16191.1	100.0
0°-180°	16191.1	100.0

**Coefficient of Utilization**



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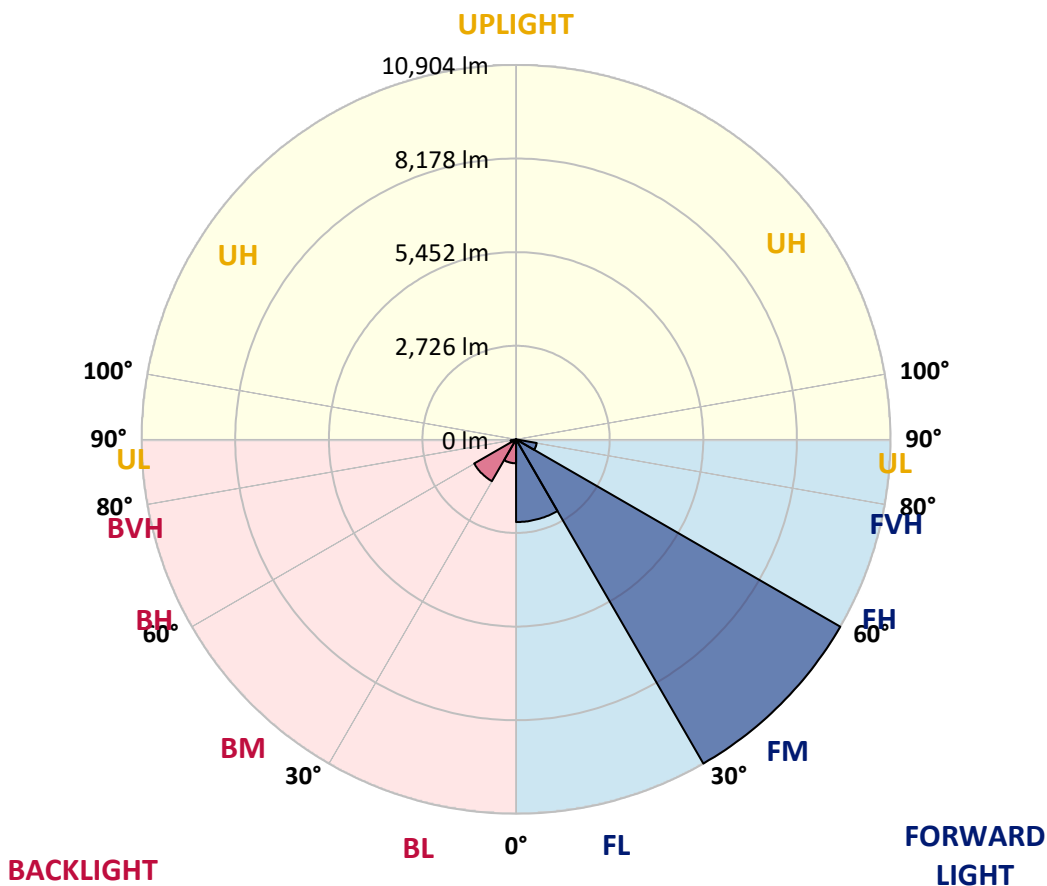
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.2	14.9			
FM (30°-60°)	10904.2	67.3			
FH (60°-80°)	609.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	698.2	4.3	B2/1000		
BM (30°-60°)	1408.4	8.7	B2/2500		
BH (60°-80°)	161.2	1.0	B1/500		G1/500
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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	2862.0	2817.0	2791.1	2770.3	2678.5	2533.1	2437.8	2387.6	2304.5	2164.3	2043.1
5°	3734.7	3701.8	3641.2	3599.6	3481.9	3275.9	3062.9	2978.0	2789.3	2472.5	2188.5
7.5°	4313.0	4288.7	4266.2	4210.8	4100.0	3913.0	3677.5	3589.2	3298.4	2848.2	2382.4
10°	4757.9	4738.9	4712.9	4711.2	4624.6	4456.7	4226.4	4134.6	3819.5	3256.8	2611.0
12.5°	5149.3	5133.7	5128.5	5177.0	5121.5	4996.9	4747.6	4633.3	4299.1	3674.1	2863.8
15°	5417.6	5414.2	5436.7	5531.9	5563.1	5505.9	5296.4	5173.5	4789.1	4093.1	3142.5
17.5°	5540.6	5550.9	5594.2	5758.7	5897.2	5945.7	5784.7	5680.8	5275.6	4517.3	3440.3
20°	5750.1	5746.6	5772.6	5928.4	6098.1	6271.2	6222.7	6134.4	5767.4	4965.7	3771.0
22.5°	6340.5	6290.3	6234.9	6259.1	6319.7	6522.3	6612.3	6567.3	6274.7	5426.3	4112.1
25°	7247.7	7195.8	7017.5	6844.3	6730.0	6821.8	6944.7	6967.2	6778.5	5899.0	4468.8
27.5°	8210.4	8163.7	7962.8	7703.1	7375.9	7216.6	7308.3	7353.4	7273.7	6461.7	4848.0
30°	9112.5	9050.1	8830.3	8508.2	8129.0	7884.9	7781.0	7812.2	7858.9	7128.3	5293.0
32.5°	9895.1	9848.3	9585.2	9245.8	8880.5	8625.9	8383.5	8435.5	8549.8	7943.8	5862.6
35°	10558.2	10534.0	10255.2	9917.6	9531.5	9401.6	9193.9	9204.2	9318.5	8928.9	6556.9
37.5°	11134.8	11093.2	10840.4	10527.0	10220.6	10199.8	10142.7	10147.9	10206.7	10076.9	7355.1
40°	11498.4	11460.3	11280.2	11086.3	10868.1	10871.6	11167.7	11190.2	11122.7	11204.0	8198.3
42.5°	11635.2	11607.5	11510.5	11512.2	11489.7	11591.9	12147.7	12189.2	11946.8	12088.8	8918.6
45°	11398.0	11385.8	11392.8	11642.1	11912.2	12227.3	12949.3	13022.0	12679.2	12675.7	9481.3
47.5°	10632.7	10608.4	10811.0	11235.2	11860.2	12473.2	13434.1	13546.7	13191.7	13011.6	9834.5
50°	9133.3	9202.5	9522.8	10160.0	11110.5	12135.5	13428.9	13624.6	13210.8	12982.2	9775.6
52.5°	6615.8	6601.9	7303.1	8179.2	9335.8	11055.1	12715.6	13001.3	12748.5	12693.1	9644.0
55°	3599.6	3726.0	4198.7	5358.8	6802.8	9010.3	11086.3	11709.6	12002.2	12587.4	9881.2
57.5°	1322.8	1378.2	1674.3	2495.0	3601.4	5602.9	8468.4	9408.6	10312.4	12293.1	9841.4
60°	533.3	543.7	661.4	917.7	1513.3	2851.7	5080.0	5914.5	6766.4	9410.3	7552.5
62.5°	387.8	401.7	448.4	536.7	765.3	1246.6	2190.2	2546.9	2784.1	4661.0	3720.8
65°	313.4	323.8	361.9	401.7	505.6	670.1	706.4	680.4	677.0	1205.1	853.6
67.5°	259.7	270.1	297.8	325.5	363.6	334.2	242.4	254.5	207.8	206.0	167.9
70°	190.5	202.6	230.3	259.7	218.2	90.0	140.2	207.8	157.6	131.6	128.1
72.5°	143.7	152.4	178.3	169.7	64.1	34.6	93.5	150.6	121.2	97.0	95.2
75°	107.3	112.5	90.0	27.7	6.9	8.7	34.6	62.3	67.5	55.4	55.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.2	6.9	8.7	10.4
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0	1934.0
2.5°	1973.8	1901.1	1797.2	1710.6	1644.9	1580.8	1532.3	1483.8	1482.1	1457.9	1452.7
5°	2056.9	1925.3	1734.9	1598.1	1515.0	1464.8	1430.2	1412.8	1404.2	1395.5	1392.1
7.5°	2176.4	1987.7	1724.5	1579.1	1509.8	1476.9	1452.7	1442.3	1437.1	1430.2	1428.4
10°	2323.6	2077.7	1762.6	1615.4	1554.8	1523.7	1497.7	1482.1	1473.4	1461.3	1457.9
12.5°	2500.2	2188.5	1823.2	1676.0	1612.0	1570.4	1535.8	1513.3	1501.1	1485.6	1482.1
15°	2690.6	2308.0	1890.7	1731.4	1655.2	1601.6	1558.3	1523.7	1501.1	1482.1	1476.9
17.5°	2888.0	2429.2	1951.3	1769.5	1676.0	1612.0	1549.6	1502.9	1475.2	1450.9	1444.0
20°	3109.6	2553.8	1991.1	1776.4	1669.1	1584.3	1511.5	1452.7	1425.0	1392.1	1385.1
22.5°	3341.6	2669.9	2008.5	1760.9	1631.0	1532.3	1454.4	1393.8	1354.0	1319.3	1309.0
25°	3566.7	2773.7	1999.8	1717.6	1573.9	1459.6	1379.9	1317.6	1274.3	1239.7	1231.0
27.5°	3805.7	2860.3	1968.6	1653.5	1495.9	1379.9	1303.8	1250.1	1210.3	1172.2	1163.5
30°	4074.0	2940.0	1918.4	1575.6	1404.2	1298.6	1239.7	1203.3	1160.1	1120.2	1108.1
32.5°	4397.8	3010.9	1845.7	1482.1	1322.8	1227.6	1194.7	1167.0	1116.8	1075.2	1066.6
35°	4768.3	3069.8	1753.9	1385.1	1243.2	1182.6	1175.6	1139.3	1073.5	1025.0	1014.6
37.5°	5197.7	3126.9	1644.9	1289.9	1184.3	1161.8	1163.5	1101.2	1021.5	962.7	955.7
40°	5660.0	3184.1	1523.7	1206.8	1130.6	1149.7	1134.1	1045.8	915.9	858.8	851.9
42.5°	6141.4	3246.4	1400.7	1128.9	1085.6	1102.9	1080.4	935.0	841.5	812.0	808.6
45°	6575.9	3320.9	1267.4	1051.0	1040.6	1035.4	997.3	846.7	806.8	786.1	784.3
47.5°	6889.3	3308.7	1125.4	976.5	992.1	974.8	858.8	805.1	772.2	744.5	737.6
50°	6832.2	3097.5	978.3	893.4	929.8	914.2	772.2	756.6	727.2	697.8	687.4
52.5°	6686.8	2810.1	850.1	805.1	862.2	825.9	713.3	697.8	671.8	633.7	621.6
55°	6764.7	2540.0	749.7	734.1	793.0	683.9	647.6	623.3	595.6	554.1	548.9
57.5°	6513.6	2072.5	602.5	612.9	701.2	583.5	567.9	529.8	483.1	455.4	451.9
60°	4508.6	1113.3	377.5	389.6	507.3	490.0	509.0	474.4	417.3	391.3	386.1
62.5°	2070.8	446.7	206.0	197.4	266.6	332.4	436.3	432.9	361.9	320.3	316.9
65°	502.1	204.3	147.2	138.5	150.6	199.1	284.0	341.1	292.6	244.1	238.9
67.5°	162.8	166.2	135.1	126.4	133.3	148.9	169.7	188.7	187.0	171.4	167.9
70°	129.9	150.6	124.7	114.3	114.3	119.5	114.3	91.8	79.6	86.6	90.0
72.5°	97.0	114.3	98.7	88.3	84.8	83.1	71.0	51.9	36.4	32.9	31.2
75°	57.1	64.1	60.6	51.9	48.5	43.3	34.6	22.5	12.1	8.7	5.2
77.5°	10.4	12.1	13.9	10.4	8.7	6.9	5.2	1.7	0.0	0.0	0.0
80°	0.0	1.7	1.7	1.7	0.0	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)