

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: P640343

Luminaire Tested: GWS-SA5D-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-760-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

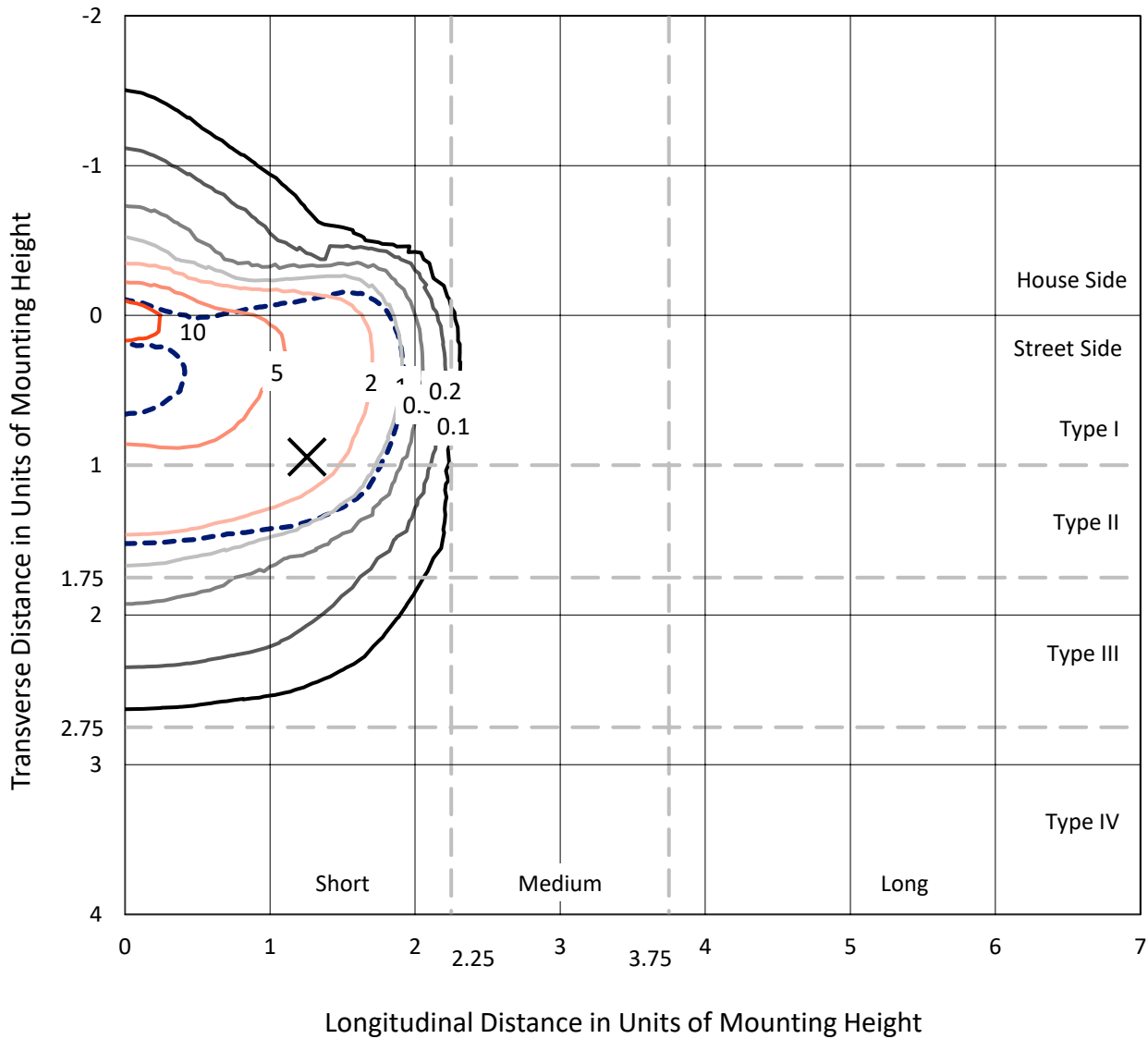
Lumens per Lamp: N/A  
Luminaire Lumens: 17727.1 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

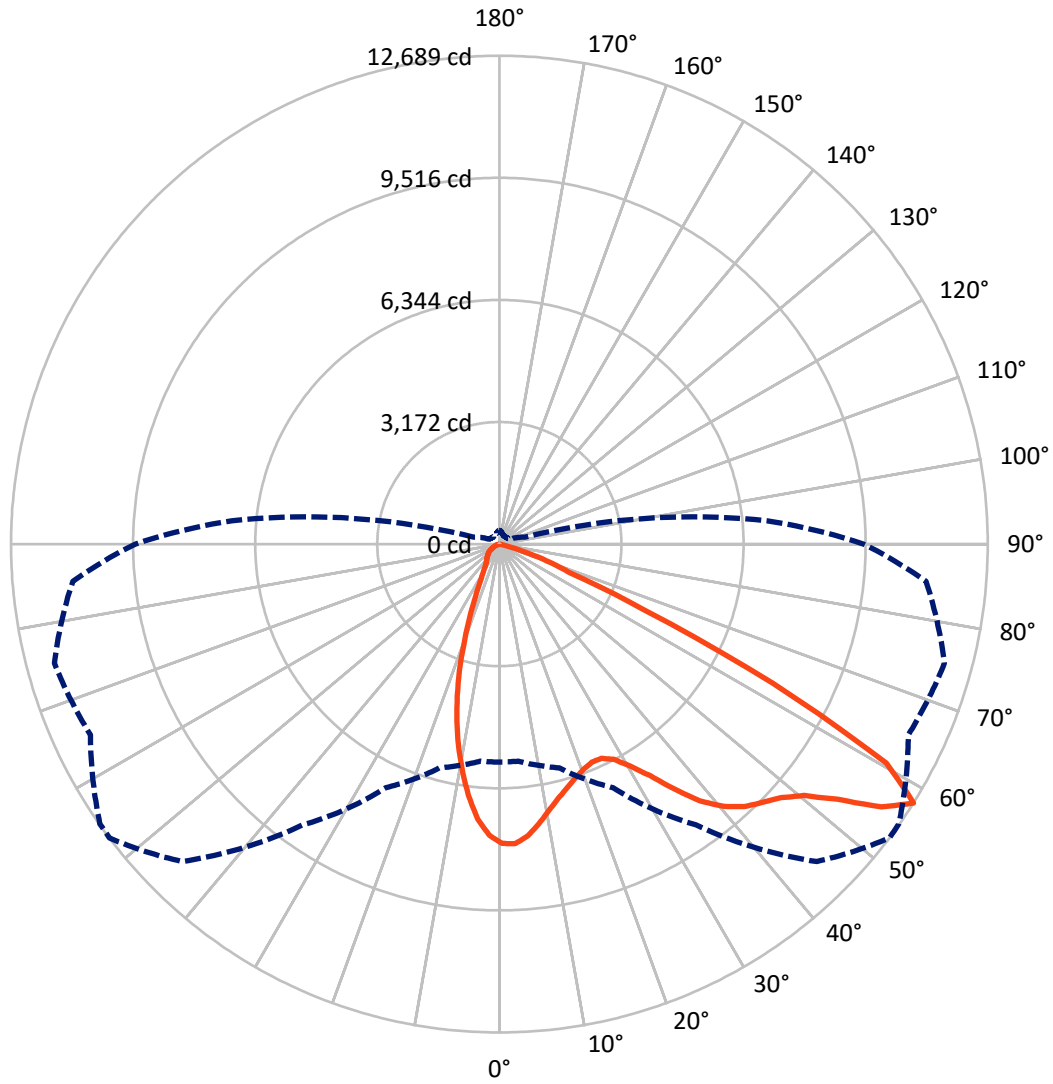
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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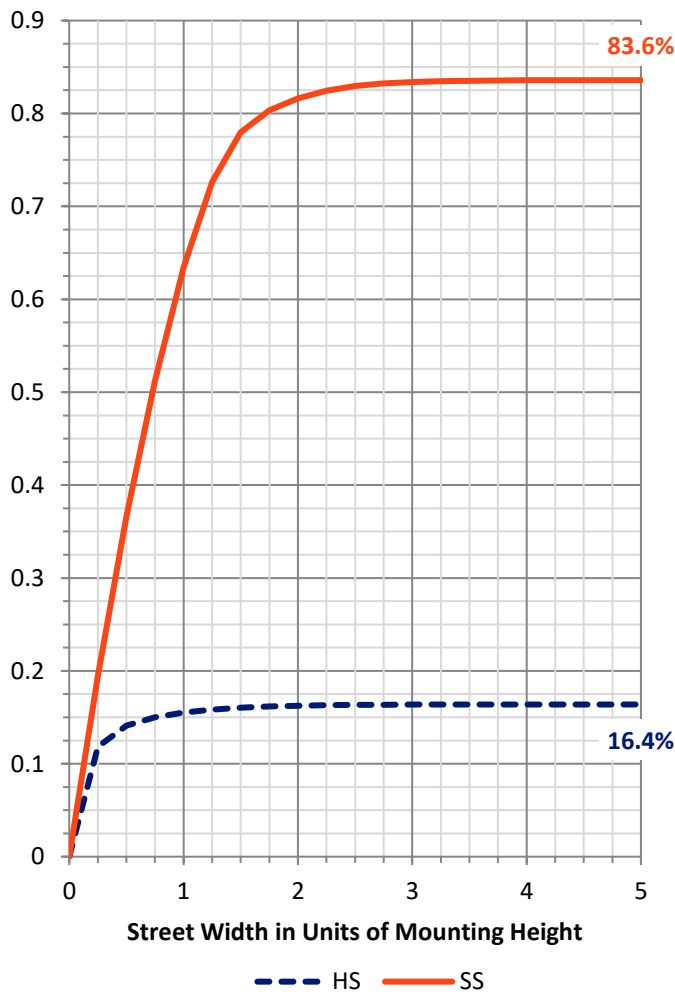
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2928.3	0.0	2928.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14798.8	0.0	14798.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17727.1	0.0	17727.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	665.3	3.8
10°-20°	1460.6	8.2
20°-30°	1902.8	10.7
30°-40°	2760.0	15.6
40°-50°	3982.5	22.5
50°-60°	4816.5	27.2
60°-70°	1963.0	11.1
70°-80°	176.4	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°	17727.1	100.0
0°-180°	17727.1	100.0

**Coefficient of Utilization**



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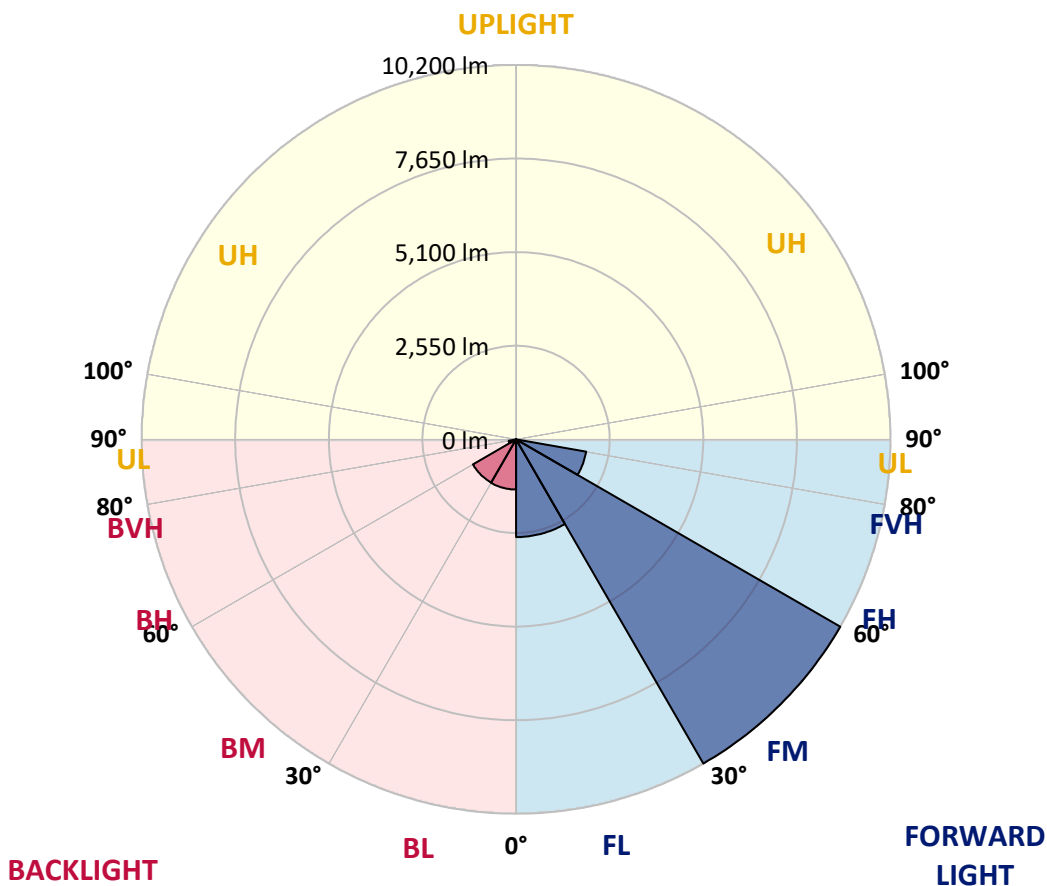
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2662.0	15.0			
FM (30°-60°)	10199.8	57.5			
FH (60°-80°)	1937.0	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1366.7	7.7	B3/2500		
BM (30°-60°)	1359.2	7.7	B2/2500		
BH (60°-80°)	202.4	1.1	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: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1
2.5°	7667.5	7684.9	7715.3	7754.4	7780.5	7793.5	7793.5	7830.4	7806.5	7787.0	7765.3
5°	7339.4	7356.8	7398.1	7461.1	7524.1	7569.7	7621.9	7661.0	7676.2	7676.2	7639.2
7.5°	6876.6	6900.5	6926.6	7013.5	7150.4	7252.5	7341.6	7398.1	7480.6	7506.7	7454.6
10°	6379.1	6403.0	6461.6	6581.1	6737.6	6889.7	7041.7	7113.4	7254.7	7328.5	7269.9
12.5°	5957.6	5968.4	6046.6	6190.0	6389.9	6598.5	6783.2	6857.1	7057.0	7167.8	7098.2
15°	5609.9	5616.4	5694.7	5853.3	6083.6	6340.0	6572.4	6648.5	6894.0	7061.3	6957.0
17.5°	5347.0	5349.2	5416.6	5588.2	5829.4	6114.0	6389.9	6483.4	6800.6	7002.6	6846.2
20°	5214.5	5208.0	5255.8	5405.7	5633.8	5918.5	6244.4	6359.5	6748.4	6993.9	6761.5
22.5°	5216.7	5201.5	5221.0	5327.5	5520.8	5788.1	6153.1	6283.5	6752.8	7030.9	6689.8
25°	5340.5	5318.8	5323.1	5379.6	5516.5	5759.8	6166.1	6305.2	6839.7	7154.7	6663.7
27.5°	5549.1	5525.2	5525.2	5553.4	5627.3	5848.9	6329.1	6487.7	7072.2	7395.9	6718.0
30°	5818.5	5794.6	5785.9	5814.2	5875.0	6079.2	6691.9	6857.1	7469.8	7791.3	6891.8
32.5°	6127.0	6098.8	6114.0	6153.1	6211.8	6494.2	7159.1	7378.5	7967.3	8323.6	7204.7
35°	6452.9	6429.0	6498.6	6583.3	6674.6	7070.0	7804.4	7995.6	8577.8	8986.3	7682.7
37.5°	6763.6	6752.8	6898.3	7076.5	7265.5	7760.9	8460.5	8608.3	9101.5	9707.7	8267.1
40°	7074.3	7072.2	7322.0	7634.9	7936.9	8449.7	8958.1	9079.7	9420.9	10268.2	8827.7
42.5°	7422.0	7422.0	7767.4	8184.6	8586.5	9031.9	9323.1	9377.4	9564.3	10591.9	9249.2
45°	7754.4	7773.9	8173.7	8658.2	9134.1	9486.0	9575.1	9579.5	9622.9	10783.1	9599.0
47.5°	8017.3	8034.7	8512.7	9071.0	9583.8	9831.5	9844.5	9825.0	9777.2	10965.6	9868.4
50°	8230.2	8256.3	8756.0	9347.0	9892.3	10163.9	10263.9	10244.3	10122.6	11161.2	10057.5
52.5°	8334.5	8371.4	8840.7	9483.9	10235.6	10733.2	11011.3	11056.9	10639.7	11269.8	10237.8
55°	7500.2	7554.5	7986.9	8866.8	10426.8	11613.1	12049.8	12041.1	11200.3	11593.6	10676.7
57.5°	5664.2	5659.9	6018.4	6980.9	8905.9	11663.1	12688.6	12671.2	11723.9	11969.4	11126.4
60°	3856.6	3830.5	3926.1	4391.0	6227.0	9501.2	11547.9	11782.6	11352.4	11056.9	9446.9
62.5°	3174.3	3150.4	3120.0	2991.8	3576.3	5918.5	7978.2	8334.5	8278.0	7684.9	5925.0
65°	2598.6	2618.1	2702.8	2648.5	2487.7	3035.3	4141.2	4351.9	3978.2	3348.1	2070.6
67.5°	1916.3	1925.0	2035.8	2322.6	2235.7	2020.6	1948.9	1983.7	1162.4	534.5	345.5
70°	1132.0	1138.5	1240.6	1625.2	1814.2	1551.3	1316.7	1297.1	460.6	143.4	156.4
72.5°	640.9	627.9	647.5	773.5	988.6	823.5	677.9	617.0	139.1	80.4	80.4
75°	304.2	295.5	254.2	239.0	217.3	139.1	86.9	73.9	34.8	32.6	32.6
77.5°	2.2	6.5	4.3	6.5	6.5	4.3	2.2	2.2	6.5	6.5	8.7
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°	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1	7776.1
2.5°	7726.1	7661.0	7645.8	7641.4	7580.6	7515.4	7448.0	7422.0	7382.9	7359.0	7378.5
5°	7580.6	7487.1	7404.6	7328.5	7193.8	7046.1	6917.9	6835.3	6757.1	6705.0	6718.0
7.5°	7374.2	7252.5	7063.5	6870.1	6622.4	6400.8	6153.1	6001.0	5859.8	5781.6	5818.5
10°	7154.7	6993.9	6691.9	6363.9	5974.9	5627.3	5273.2	4984.2	4816.9	4658.3	4675.7
12.5°	6939.6	6726.7	6274.8	5777.2	5286.2	4773.4	4239.0	3839.2	3565.4	3367.7	3337.3
15°	6739.7	6466.0	5868.5	5212.3	4543.1	3860.9	3178.7	2607.2	2290.0	2094.5	2081.5
17.5°	6561.6	6222.6	5447.0	4621.3	3782.7	2909.3	2124.9	1696.9	1514.4	1429.6	1421.0
20°	6389.9	5977.1	5016.8	4021.7	2952.7	2042.3	1466.6	1268.9	1210.2	1175.4	1179.8
22.5°	6224.8	5709.9	4564.9	3356.8	2214.0	1434.0	1136.3	1060.3	1053.8	1058.1	1060.3
25°	6085.8	5464.4	4099.9	2715.9	1579.6	1092.9	949.5	927.7	947.3	975.5	979.9
27.5°	6014.1	5264.5	3645.8	2070.6	1142.8	888.6	823.5	832.1	866.9	897.3	901.7
30°	6033.6	5114.6	3176.5	1501.3	879.9	749.6	727.9	745.2	780.0	808.2	812.6
32.5°	6172.7	5038.5	2696.3	1092.9	723.5	654.0	645.3	658.3	688.7	710.5	712.6
35°	6448.6	5055.9	2240.1	836.5	621.4	582.3	580.1	588.8	604.0	619.2	621.4
37.5°	6854.9	5197.1	1790.3	695.3	562.7	534.5	525.8	525.8	536.7	543.2	547.5
40°	7291.6	5410.0	1434.0	614.9	521.4	491.0	473.7	467.1	475.8	484.5	486.7
42.5°	7652.3	5623.0	1164.6	558.4	488.9	447.6	425.9	421.5	432.4	447.6	451.9
45°	7928.2	5788.1	971.2	512.8	451.9	406.3	382.4	382.4	402.0	428.0	432.4
47.5°	8180.2	5920.6	827.8	471.5	417.2	369.4	345.5	349.8	382.4	417.2	423.7
50°	8351.9	6027.1	721.3	434.5	388.9	338.9	317.2	325.9	365.0	406.3	412.8
52.5°	8536.6	6157.5	651.8	402.0	362.8	315.0	295.5	302.0	345.5	391.1	399.8
55°	9047.1	6594.2	649.6	358.5	317.2	282.5	273.8	275.9	319.4	371.5	382.4
57.5°	9464.3	6978.7	693.1	302.0	265.1	247.7	243.3	245.5	284.6	343.3	356.3
60°	7830.4	5423.1	573.6	249.9	221.6	217.3	210.8	215.1	252.0	304.2	315.0
62.5°	4634.4	3100.5	273.8	191.2	189.0	184.7	178.2	186.9	221.6	267.2	273.8
65°	1583.9	919.1	173.8	156.4	160.8	154.3	147.7	156.4	186.9	212.9	215.1
67.5°	304.2	243.3	139.1	130.4	132.5	119.5	117.3	126.0	143.4	147.7	145.6
70°	158.6	141.2	106.5	106.5	102.1	84.7	84.7	93.4	93.4	86.9	84.7
72.5°	82.6	78.2	69.5	78.2	65.2	52.1	52.1	56.5	52.1	43.5	43.5
75°	32.6	32.6	30.4	39.1	28.2	23.9	21.7	26.1	19.6	15.2	15.2
77.5°	8.7	8.7	8.7	10.9	6.5	6.5	4.3	4.3	2.2	0.0	0.0
80°	0.0	2.2	0.0	2.2	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)