

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: P640779

Luminaire Tested: GWS-SA5E-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

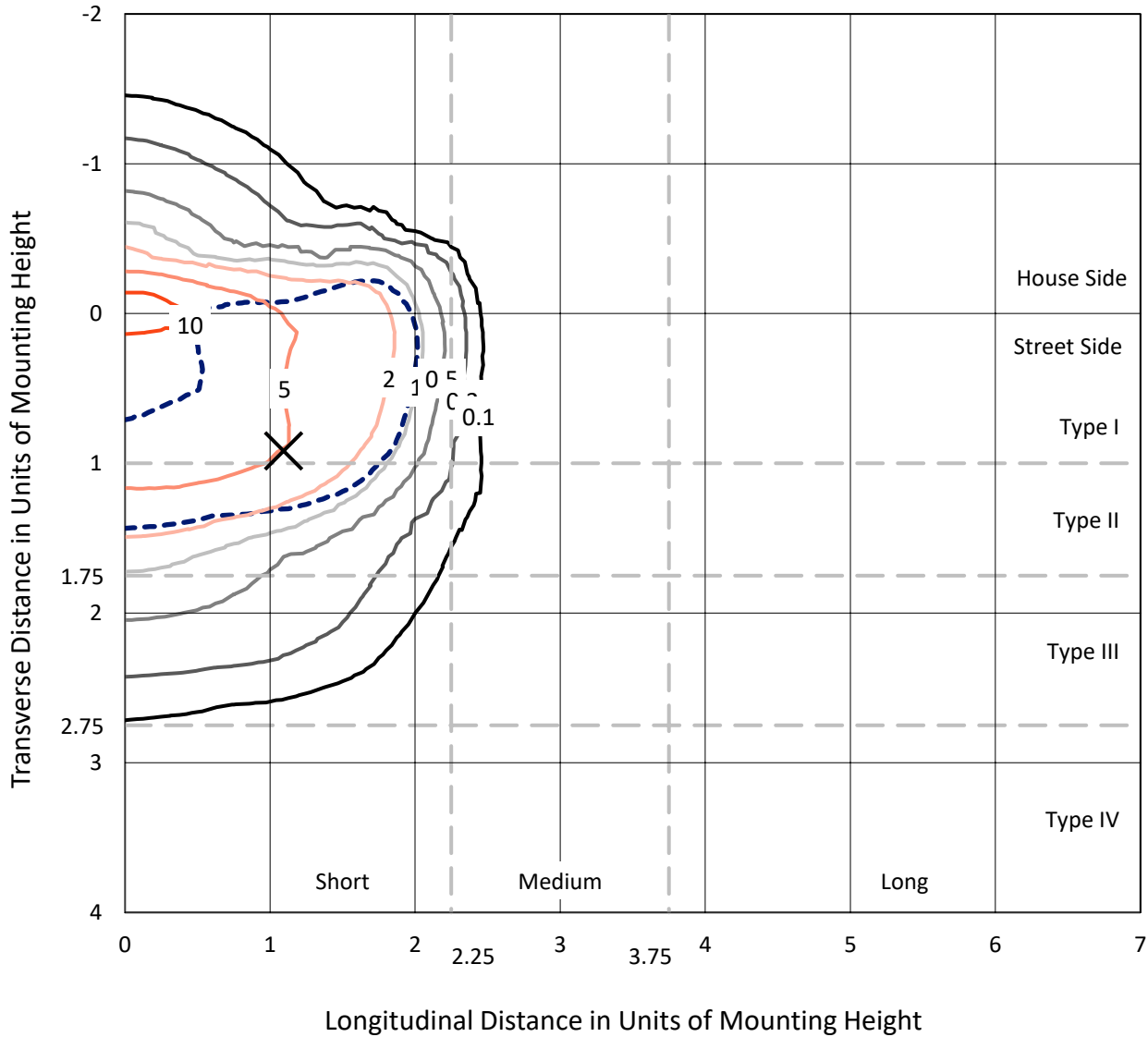
Lumens per Lamp: N/A  
Luminaire Lumens: 22548.6 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

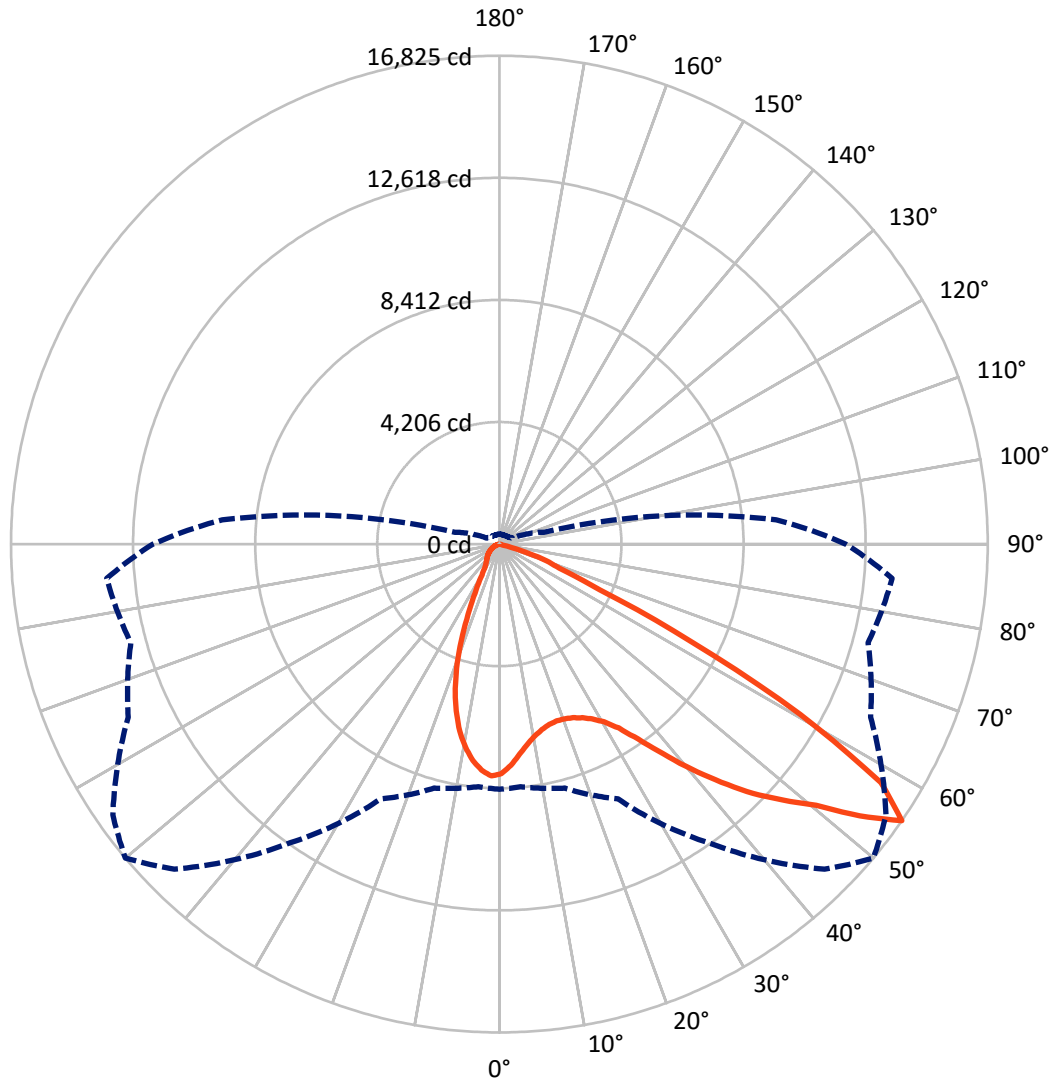
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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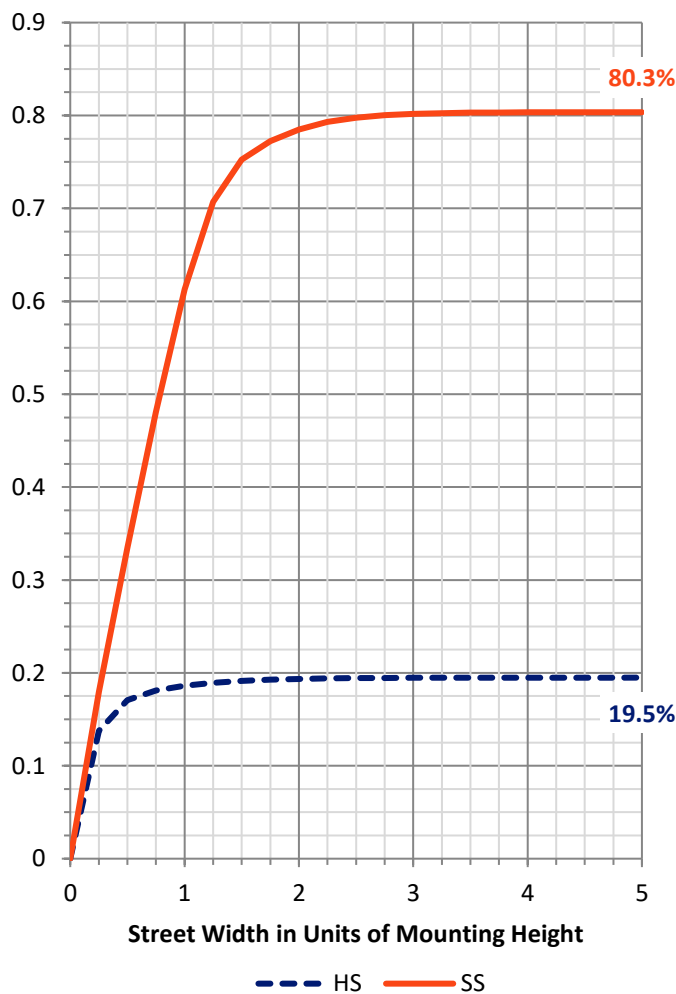
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4443.1	0.0	4443.1
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	18105.5	0.0	18105.5
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	22548.6	0.0	22548.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	694.8	3.1
10°-20°	1709.7	7.6
20°-30°	2411.6	10.7
30°-40°	3568.7	15.8
40°-50°	5148.5	22.8
50°-60°	6073.1	26.9
60°-70°	2709.1	12.0
70°-80°	232.9	1.0
80°-90°	0.1	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°	22548.6	100.0
0°-180°	22548.6	100.0

**Coefficient of Utilization**



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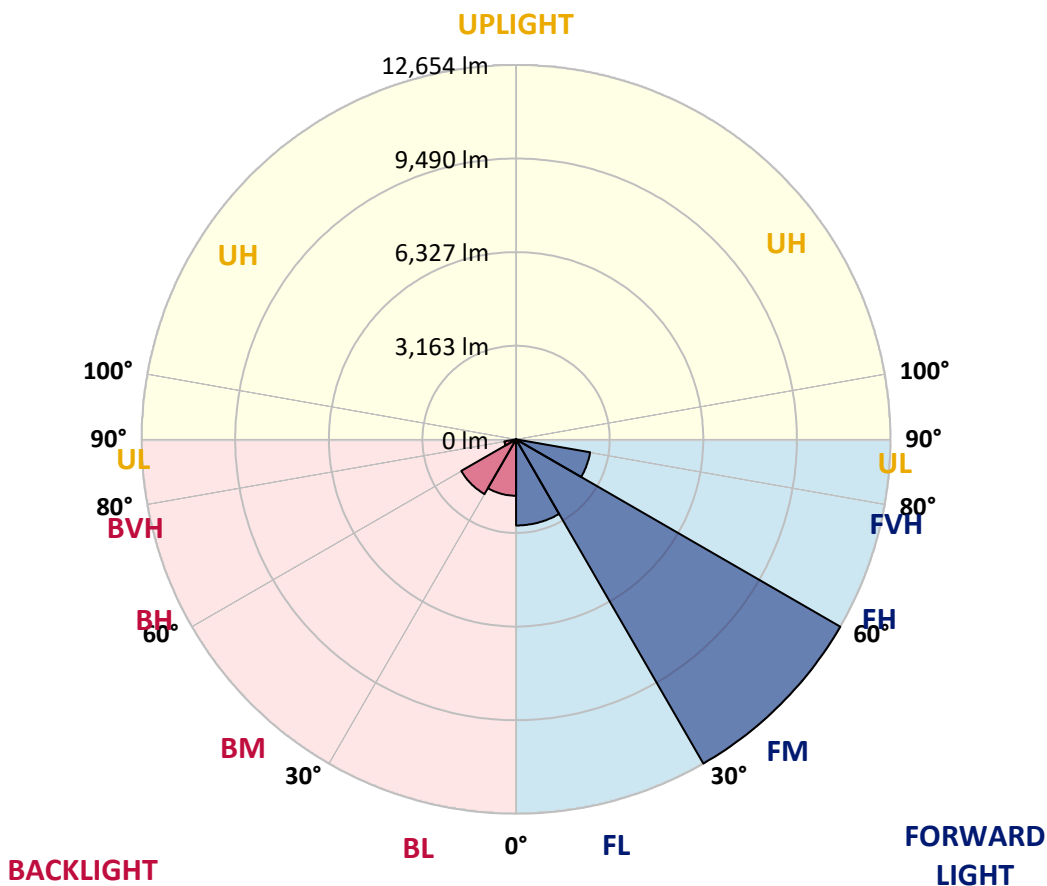
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2911.1	12.9			
FM (30°-60°)	12653.5	56.1			
FH (60°-80°)	2540.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1905.0	8.4	B3/2500		
BM (30°-60°)	2136.8	9.5	B2/2500		
BH (60°-80°)	401.2	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3
2.5°	7349.7	7355.3	7358.0	7432.3	7459.9	7570.0	7627.8	7658.1	7737.9	7831.5	7908.5
5°	6857.0	6848.8	6862.5	6956.1	7016.7	7179.1	7267.2	7327.7	7503.9	7724.1	7908.5
7.5°	6427.6	6444.1	6460.6	6562.5	6653.3	6829.5	6956.1	7047.0	7291.9	7619.5	7930.6
10°	6124.8	6124.8	6149.6	6265.2	6372.5	6590.0	6716.6	6832.2	7124.0	7525.9	7955.3
12.5°	5901.8	5904.6	5934.9	6067.0	6190.9	6416.6	6548.7	6661.6	6983.6	7432.3	7960.9
15°	5797.2	5789.0	5813.7	5954.1	6091.8	6303.7	6441.4	6551.5	6884.5	7380.0	7988.4
17.5°	5769.7	5764.2	5783.5	5921.1	6061.5	6267.9	6402.8	6512.9	6870.8	7396.5	8071.0
20°	5849.5	5838.5	5830.3	5948.6	6080.7	6284.4	6424.8	6548.7	6936.8	7487.4	8197.6
22.5°	6039.5	6039.5	6020.2	6078.0	6166.1	6350.5	6496.4	6658.8	7110.3	7669.1	8384.8
25°	6389.1	6361.5	6325.7	6350.5	6339.5	6455.1	6628.5	6854.3	7437.8	7969.1	8613.2
27.5°	6788.2	6813.0	6752.4	6755.2	6658.8	6617.5	6818.5	7159.8	7925.1	8393.0	8951.8
30°	7330.5	7311.2	7314.0	7305.7	7082.7	6887.3	7104.8	7559.0	8538.9	9039.9	9392.3
32.5°	7754.4	7781.9	7872.8	7925.1	7633.3	7319.5	7550.7	8101.2	9238.1	9777.6	9931.8
35°	8203.1	8252.6	8437.1	8607.7	8362.7	8002.1	8249.9	8819.7	9896.0	10507.1	10551.2
37.5°	8676.6	8775.7	8995.9	9295.9	9257.4	8938.1	9163.8	9664.8	10413.5	10947.5	11063.2
40°	9218.8	9315.2	9675.8	10108.0	10198.8	10127.2	10201.6	10493.3	10754.9	10966.8	11283.4
42.5°	9813.4	9945.6	10402.5	10980.6	11321.9	11385.2	11211.8	11181.5	10903.5	10746.6	11236.6
45°	10515.4	10669.5	11187.0	11935.8	12478.1	12563.4	12263.3	11875.2	10997.1	10584.2	11096.2
47.5°	11302.6	11448.5	11963.3	12863.4	13670.0	13703.0	13180.0	12555.1	11275.1	10771.4	11203.5
50°	11566.9	11657.7	12103.7	13160.7	14647.2	14900.4	14143.4	13320.4	11833.9	11321.9	11726.6
52.5°	10658.5	10694.3	11082.4	12150.5	14449.0	16075.9	15550.1	14462.8	12827.7	12161.5	12533.1
55°	8445.3	8387.5	8701.3	9681.3	12557.9	15836.4	16824.6	16257.5	14107.7	13147.0	13581.9
57.5°	5907.3	5838.5	5766.9	6430.3	9370.2	13425.0	15503.3	16508.0	15327.1	14124.2	14713.3
60°	4855.8	4789.7	4442.9	4137.3	5665.1	9640.0	11908.2	13799.4	15228.0	14074.6	14677.5
62.5°	4195.1	4156.6	4016.2	3600.6	3333.5	5502.7	7457.1	9268.4	11685.3	11052.2	11085.2
65°	3295.0	3284.0	3380.3	3424.4	2948.2	3044.5	3804.3	4817.3	6317.5	5956.9	5648.6
67.5°	2251.7	2226.9	2408.6	2961.9	2835.3	2403.1	2226.9	2246.2	2733.4	1670.9	1326.8
70°	1431.4	1373.6	1376.4	1836.1	2306.8	1896.6	1717.7	1511.2	1359.8	247.7	280.8
72.5°	916.7	880.9	757.0	828.6	1068.1	924.9	933.2	803.8	536.8	132.1	154.2
75°	385.4	355.1	272.5	217.5	214.7	134.9	118.4	110.1	74.3	74.3	79.8
77.5°	2.8	0.0	0.0	2.8	5.5	2.8	2.8	5.5	11.0	16.5	19.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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°	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3	7911.3
2.5°	7955.3	7889.3	7963.6	7991.1	7988.4	7991.1	7911.3	7856.2	7853.5	7784.7	7751.6
5°	7985.6	7933.3	7988.4	7952.6	7867.3	7759.9	7616.8	7492.9	7437.8	7358.0	7319.5
7.5°	8043.4	7988.4	7980.1	7837.0	7625.0	7399.3	7146.0	6920.3	6799.2	6653.3	6661.6
10°	8084.7	8021.4	7914.1	7622.3	7269.9	6909.3	6532.2	6196.4	5984.4	5789.0	5755.9
12.5°	8101.2	8007.6	7757.2	7316.7	6821.2	6350.5	5797.2	5318.2	4987.9	4731.9	4696.1
15°	8131.5	7980.1	7556.2	6947.9	6267.9	5601.8	4897.1	4241.9	3804.3	3509.7	3534.5
17.5°	8178.3	7949.8	7330.5	6534.9	5673.3	4731.9	3779.5	3028.0	2626.1	2455.4	2458.2
20°	8244.4	7914.1	7082.7	6080.7	4960.4	3749.2	2642.6	2075.5	1962.7	1957.2	1948.9
22.5°	8332.5	7878.3	6818.5	5582.5	4115.3	2626.1	1759.0	1582.8	1629.6	1720.4	1737.0
25°	8437.1	7834.2	6523.9	5021.0	3193.1	1723.2	1318.6	1291.0	1403.9	1525.0	1552.5
27.5°	8599.5	7812.2	6188.1	4382.3	2240.7	1236.0	1079.1	1095.6	1197.4	1299.3	1324.1
30°	8874.8	7853.5	5822.0	3666.6	1439.7	985.5	935.9	960.7	1015.8	1068.1	1090.1
32.5°	9249.1	7974.6	5466.9	2884.8	1026.8	856.1	845.1	858.8	880.9	911.1	919.4
35°	9686.8	8183.8	5100.8	2064.5	847.8	781.8	770.8	770.8	781.8	787.3	790.0
37.5°	10047.4	8404.0	4756.7	1373.6	759.7	724.0	707.4	699.2	696.4	701.9	704.7
40°	10204.3	8494.9	4382.3	999.2	696.4	671.7	646.9	622.1	622.1	641.4	644.1
42.5°	10094.2	8393.0	3950.1	825.8	652.4	616.6	578.1	556.0	567.1	586.3	591.8
45°	9860.2	8142.5	3473.9	729.5	608.3	561.6	517.5	503.7	514.8	539.5	545.0
47.5°	9821.7	7977.4	2904.1	666.2	561.6	514.8	468.0	454.2	468.0	487.2	492.7
50°	10204.3	8120.5	2271.0	611.1	517.5	465.2	426.7	412.9	421.2	432.2	437.7
52.5°	10903.5	8651.8	1833.3	558.8	465.2	415.7	390.9	374.4	374.4	385.4	388.1
55°	11935.8	9579.4	1582.8	498.2	404.6	377.1	355.1	338.6	338.6	344.1	346.8
57.5°	13124.9	10702.6	1640.6	418.4	355.1	341.3	322.1	308.3	313.8	313.8	313.8
60°	12959.8	10620.0	1756.2	352.3	313.8	308.3	291.8	286.3	300.0	289.0	283.5
62.5°	9546.4	7336.0	919.4	289.0	269.8	264.3	253.2	264.3	283.5	253.2	242.2
65°	4635.6	3551.0	368.9	236.7	228.5	223.0	217.5	234.0	245.0	198.2	187.2
67.5°	1090.1	886.4	239.5	200.9	189.9	178.9	184.4	187.2	178.9	134.9	129.4
70°	283.5	278.0	187.2	167.9	151.4	140.4	140.4	137.6	118.4	85.3	79.8
72.5°	154.2	151.4	134.9	126.6	104.6	93.6	96.3	85.3	66.1	49.5	46.8
75°	77.1	82.6	77.1	71.6	57.8	52.3	52.3	46.8	33.0	19.3	19.3
77.5°	16.5	19.3	19.3	16.5	13.8	11.0	11.0	13.8	5.5	0.0	0.0
80°	2.8	2.8	2.8	2.8	2.8	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)