

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: P642784

Luminaire Tested: GWS-SA6D-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

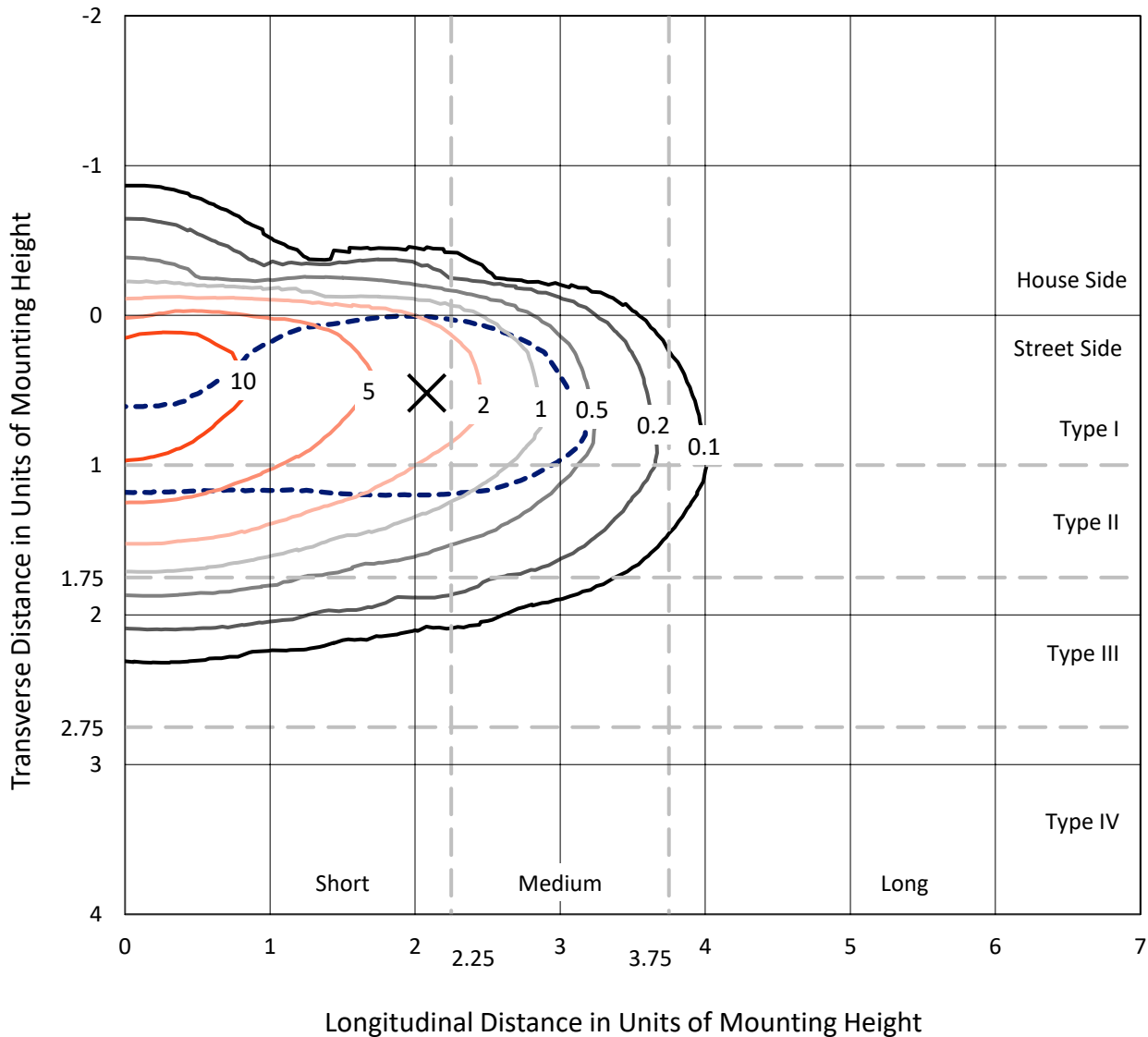
Lumens per Lamp: N/A  
Luminaire Lumens: 29551.5 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

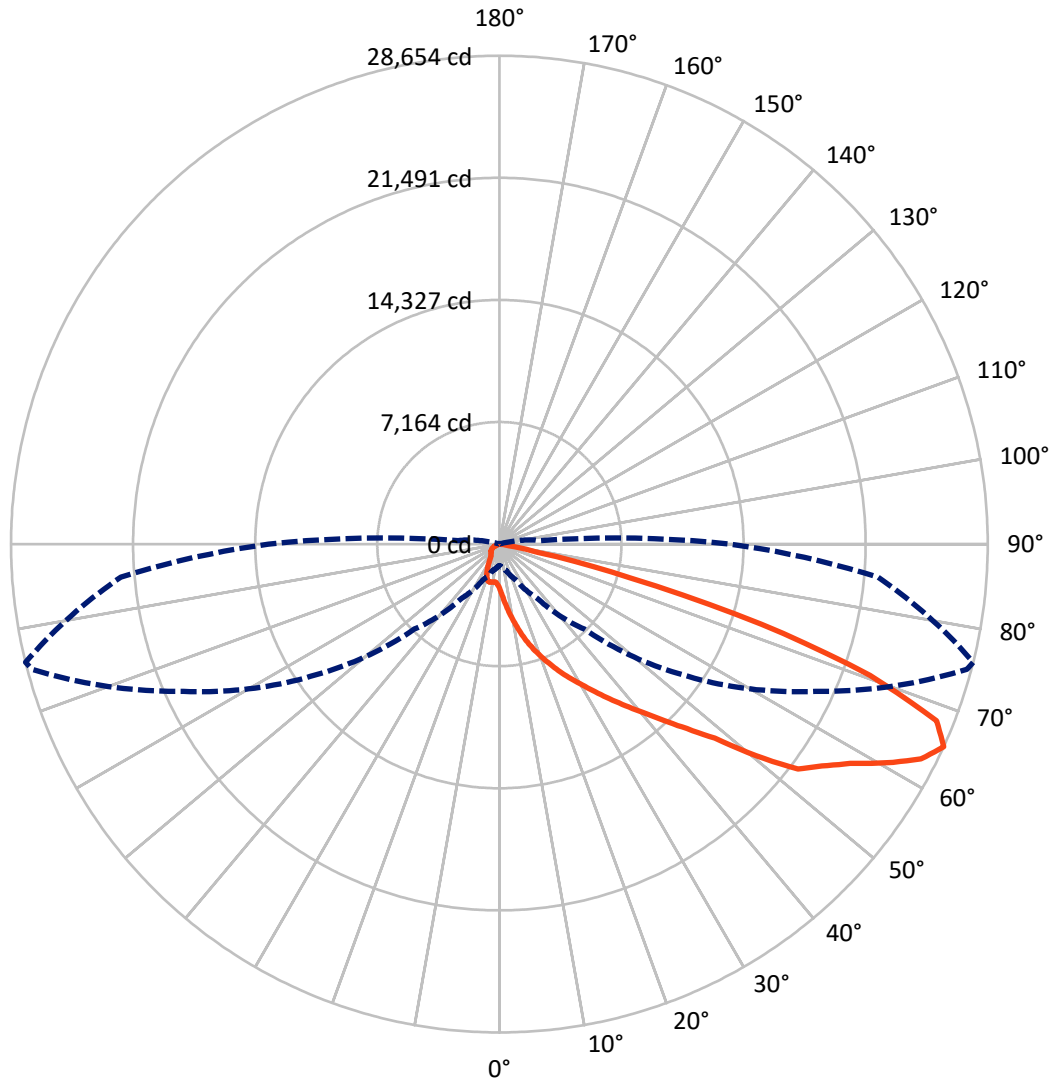
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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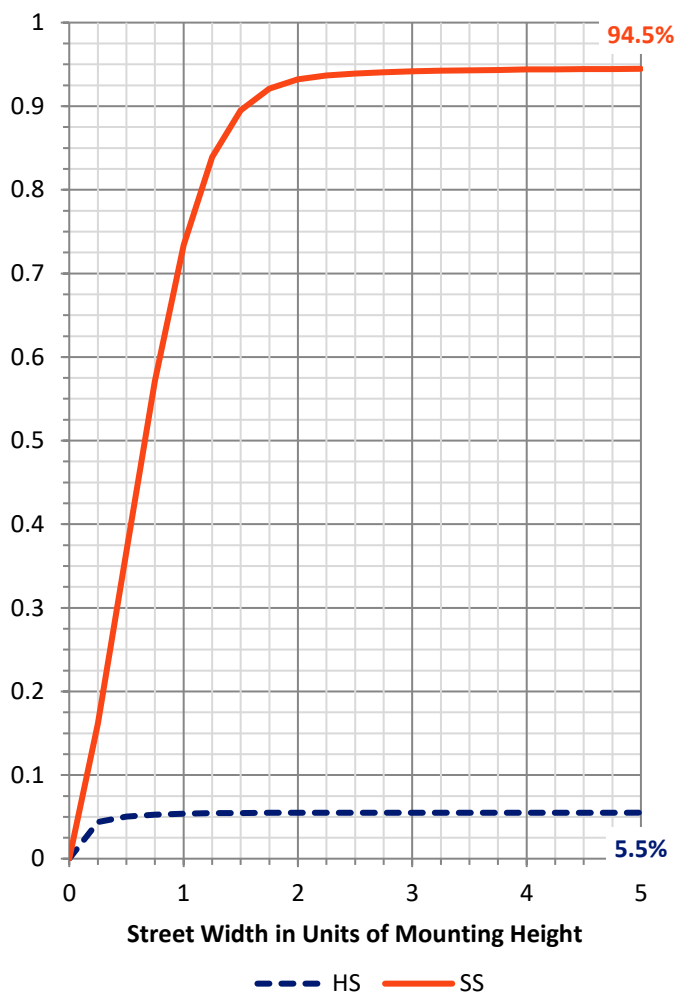
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1634.0	0.0	1634.0
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	27917.5	0.0	27917.5
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	29551.5	0.0	29551.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.3	1.1
10°-20°	1207.8	4.1
20°-30°	2464.0	8.3
30°-40°	4382.4	14.8
40°-50°	6478.2	21.9
50°-60°	7417.0	25.1
60°-70°	5658.8	19.1
70°-80°	1585.2	5.4
80°-90°	39.9	0.1
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°	29551.5	100.0
0°-180°	29551.5	100.0

**Coefficient of Utilization**



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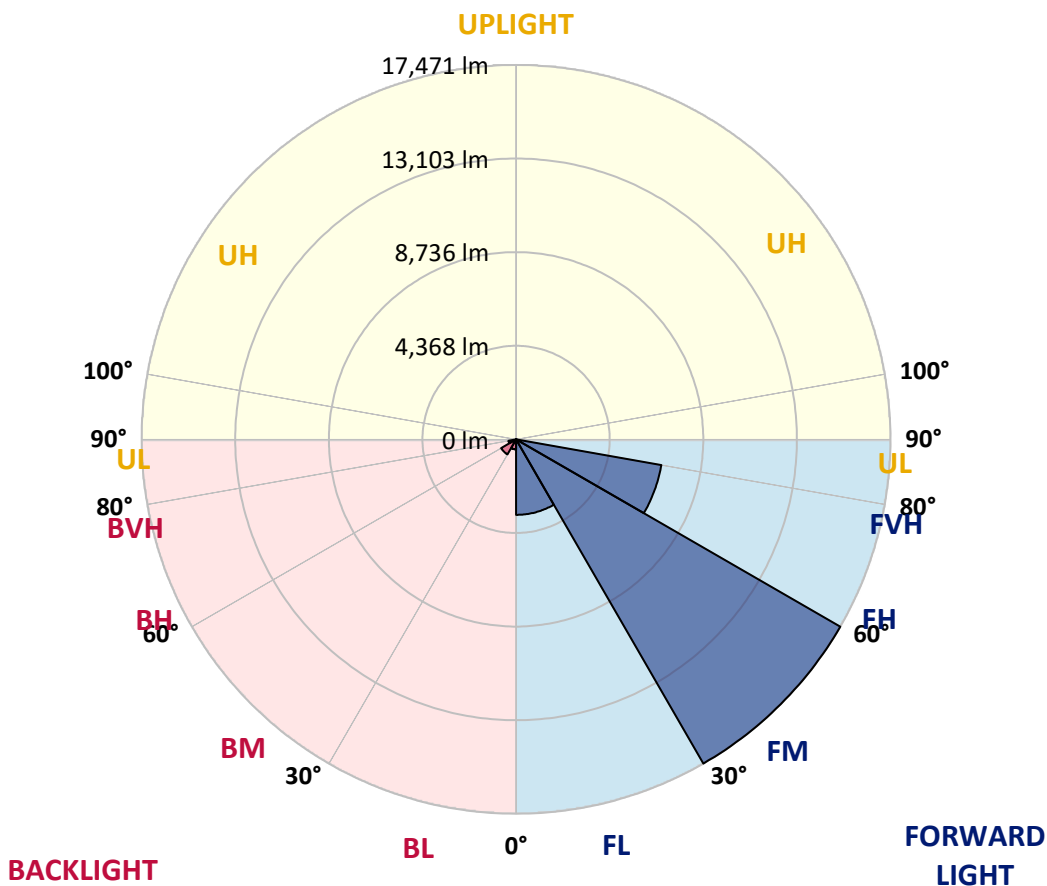
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3523.8	11.9			
FM (30°-60°)	17471.3	59.1			
FH (60°-80°)	6884.8	23.3			G3/7500
FVH (80°-90°)	37.6	0.1			G1/100
BL (0°-30°)	466.3	1.6	B1/500		
BM (30°-60°)	806.2	2.7	B1/1000		
BH (60°-80°)	359.2	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4
2.5°	4032.3	4092.7	4045.4	3966.6	3814.2	3667.1	3478.0	3217.9	3010.4	2984.2	2789.8
5°	5445.5	5440.3	5337.8	5235.4	5075.2	4823.0	4442.1	3958.7	3493.8	3454.4	3018.3
7.5°	6286.2	6294.0	6236.2	6157.4	5999.8	5739.8	5343.1	4759.9	4079.6	4000.8	3330.9
10°	6992.8	6990.2	6948.1	6911.4	6769.5	6596.1	6170.6	5529.6	4710.0	4586.6	3680.3
12.5°	7523.4	7541.8	7562.8	7599.6	7539.2	7368.4	6966.5	6267.8	5348.4	5211.8	4079.6
15°	7943.7	7949.0	8027.8	8169.6	8219.5	8130.2	7765.1	6982.3	5978.8	5860.6	4539.3
17.5°	8069.8	8080.3	8214.3	8474.4	8737.0	8787.0	8511.1	7702.1	6598.8	6472.7	4985.8
20°	8335.1	8358.8	8458.6	8687.1	9018.1	9286.1	9178.4	8429.7	7218.7	7053.2	5442.9
22.5°	9170.5	9183.6	9149.5	9178.4	9349.1	9659.1	9724.8	9133.7	7854.4	7678.4	5936.8
25°	10607.4	10612.6	10373.6	10147.7	10019.0	10076.8	10221.2	9782.6	8484.9	8311.5	6396.5
27.5°	12099.5	12117.9	11831.5	11448.0	10988.3	10725.6	10683.6	10376.2	9120.6	8928.8	6850.9
30°	13504.9	13504.9	13202.8	12735.2	12120.5	11608.2	11306.1	10975.2	9800.9	9590.8	7315.9
32.5°	14768.4	14757.9	14371.7	13864.7	13257.9	12695.8	12060.1	11600.4	10557.5	10323.7	7851.8
35°	15811.3	15785.0	15346.3	14860.3	14211.5	13793.8	13084.6	12272.8	11377.1	11143.3	8403.4
37.5°	16599.3	16570.4	16168.5	15653.7	15052.1	14781.5	14187.9	13079.3	12241.3	12028.5	9015.5
40°	17027.5	16969.7	16691.3	16307.8	15803.4	15567.0	15320.0	14080.1	13257.9	12992.6	9737.9
42.5°	17153.6	17085.3	16901.4	16722.8	16418.1	16231.6	16496.9	15209.7	14374.4	14145.8	10562.7
45°	16780.6	16741.2	16725.4	16854.1	16909.3	16961.8	17615.9	16460.1	15606.4	15433.0	11600.4
47.5°	15882.2	15871.7	16010.9	16546.8	17130.0	17684.2	18832.2	18002.1	17203.5	17017.0	13050.4
50°	14222.0	14329.7	14718.5	15658.9	16825.3	18094.0	19969.6	20140.4	19788.4	19515.2	14941.8
52.5°	11626.6	11834.2	12706.3	14135.3	15811.3	17978.5	20495.0	21853.1	22213.0	21929.3	16297.2
55°	9123.2	9317.6	10095.2	11907.7	14143.2	17098.4	20518.7	22444.2	23229.6	22966.9	17214.0
57.5°	6795.8	6974.4	7681.0	9414.8	11873.6	15367.3	19956.5	22772.5	24435.4	24267.2	18661.4
60°	4442.1	4618.1	5256.4	6772.1	9209.9	12845.5	18572.1	22704.2	26077.2	26061.4	20439.9
62.5°	2464.0	2603.3	3065.6	4247.7	6428.0	9948.0	16397.1	22018.6	27666.4	27766.3	21905.7
65°	1260.9	1350.2	1631.3	2335.3	3890.4	7053.2	13536.4	20447.7	28402.0	28654.2	22291.8
67.5°	824.8	853.7	922.0	1213.6	2083.1	4436.8	10187.1	17928.5	27367.0	27661.2	20996.8
70°	669.9	693.5	732.9	809.1	1074.4	2356.3	6690.7	14319.2	22867.1	23066.7	16720.2
72.5°	491.2	522.8	598.9	648.8	774.9	1292.4	3480.6	9399.0	15703.6	16055.6	10507.6
75°	362.5	380.9	443.9	512.2	633.1	817.0	1331.8	4941.2	8109.2	7904.3	4413.2
77.5°	218.0	231.2	283.7	328.4	451.8	509.6	465.0	1825.7	2466.7	2319.5	1066.5
80°	107.7	120.8	186.5	246.9	289.0	204.9	194.4	509.6	549.0	549.0	267.9
82.5°	36.8	47.3	99.8	162.9	141.9	78.8	91.9	131.3	147.1	155.0	78.8
85°	0.0	0.0	23.6	47.3	21.0	10.5	23.6	28.9	36.8	39.4	26.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.9	10.5	10.5
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°	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4	2616.4
2.5°	2684.7	2561.2	2374.7	2206.6	2077.9	1957.0	1865.1	1791.5	1778.4	1736.4	1741.6
5°	2805.5	2582.2	2238.1	1972.8	1786.3	1660.2	1555.1	1476.3	1442.2	1408.0	1381.7
7.5°	2992.0	2668.9	2185.6	1862.5	1644.4	1450.0	1287.2	1155.8	1092.8	1053.4	1027.1
10°	3220.6	2789.8	2188.2	1796.8	1473.7	1176.8	953.6	809.1	740.8	719.8	717.1
12.5°	3493.8	2942.1	2209.2	1689.1	1226.8	874.8	706.6	641.0	619.9	601.6	601.6
15°	3782.7	3112.9	2209.2	1492.1	935.2	683.0	612.1	570.0	543.8	533.3	528.0
17.5°	4087.4	3273.1	2156.7	1221.5	717.1	601.6	543.8	504.4	483.3	467.6	462.3
20°	4413.2	3425.5	2025.3	935.2	614.7	538.5	483.3	443.9	422.9	407.2	407.2
22.5°	4744.2	3567.3	1812.6	719.8	543.8	478.1	425.6	388.8	367.8	352.0	352.0
25°	5051.5	3661.9	1539.4	593.7	491.2	425.6	378.3	341.5	317.9	307.3	302.1
27.5°	5337.8	3722.3	1237.3	522.8	441.3	380.9	331.0	296.8	278.5	270.6	265.3
30°	5634.7	3738.1	945.7	475.5	399.3	336.2	289.0	262.7	246.9	236.4	236.4
32.5°	5923.6	3719.7	722.4	436.1	362.5	296.8	257.4	233.8	220.7	212.8	210.2
35°	6217.9	3635.6	585.8	401.9	325.7	260.1	228.5	210.2	202.3	191.8	191.8
37.5°	6538.3	3522.7	509.6	367.8	289.0	233.8	204.9	191.8	181.3	173.4	170.7
40°	6937.6	3391.3	467.6	338.9	254.8	210.2	183.9	170.7	162.9	155.0	152.4
42.5°	7410.5	3262.6	446.6	307.3	228.5	186.5	165.5	149.7	141.9	131.3	128.7
45°	8080.3	3233.7	422.9	273.2	204.9	168.1	144.5	128.7	118.2	110.3	107.7
47.5°	9157.3	3315.1	383.5	236.4	181.3	147.1	123.5	110.3	97.2	89.3	84.1
50°	10226.5	3294.1	344.1	204.9	160.2	126.1	105.1	91.9	78.8	70.9	68.3
52.5°	10809.7	3194.3	307.3	181.3	139.2	107.7	89.3	73.6	65.7	57.8	55.2
55°	11337.7	3154.9	270.6	157.6	118.2	94.6	73.6	60.4	55.2	47.3	44.7
57.5°	12372.7	3246.8	239.0	136.6	102.4	81.4	63.0	49.9	44.7	36.8	34.1
60°	13454.9	3257.3	204.9	118.2	89.3	68.3	49.9	39.4	34.1	26.3	23.6
62.5°	14019.7	2992.0	168.1	99.8	73.6	57.8	42.0	31.5	26.3	15.8	15.8
65°	13546.9	2419.4	141.9	81.4	57.8	44.7	31.5	23.6	15.8	7.9	2.6
67.5°	11989.1	1720.6	118.2	65.7	42.0	31.5	23.6	15.8	2.6	0.0	0.0
70°	8779.1	982.5	91.9	47.3	31.5	21.0	15.8	7.9	0.0	0.0	0.0
72.5°	5395.6	525.4	68.3	31.5	23.6	15.8	13.1	5.3	0.0	0.0	0.0
75°	2046.3	252.2	42.0	21.0	18.4	13.1	7.9	2.6	0.0	0.0	0.0
77.5°	554.3	123.5	23.6	15.8	13.1	7.9	5.3	0.0	0.0	0.0	0.0
80°	144.5	57.8	15.8	10.5	7.9	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	49.9	26.3	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
85°	21.0	10.5	5.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.6	2.6	2.6	2.6	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)