

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: P640787

Luminaire Tested: GWS-SA5E-750-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

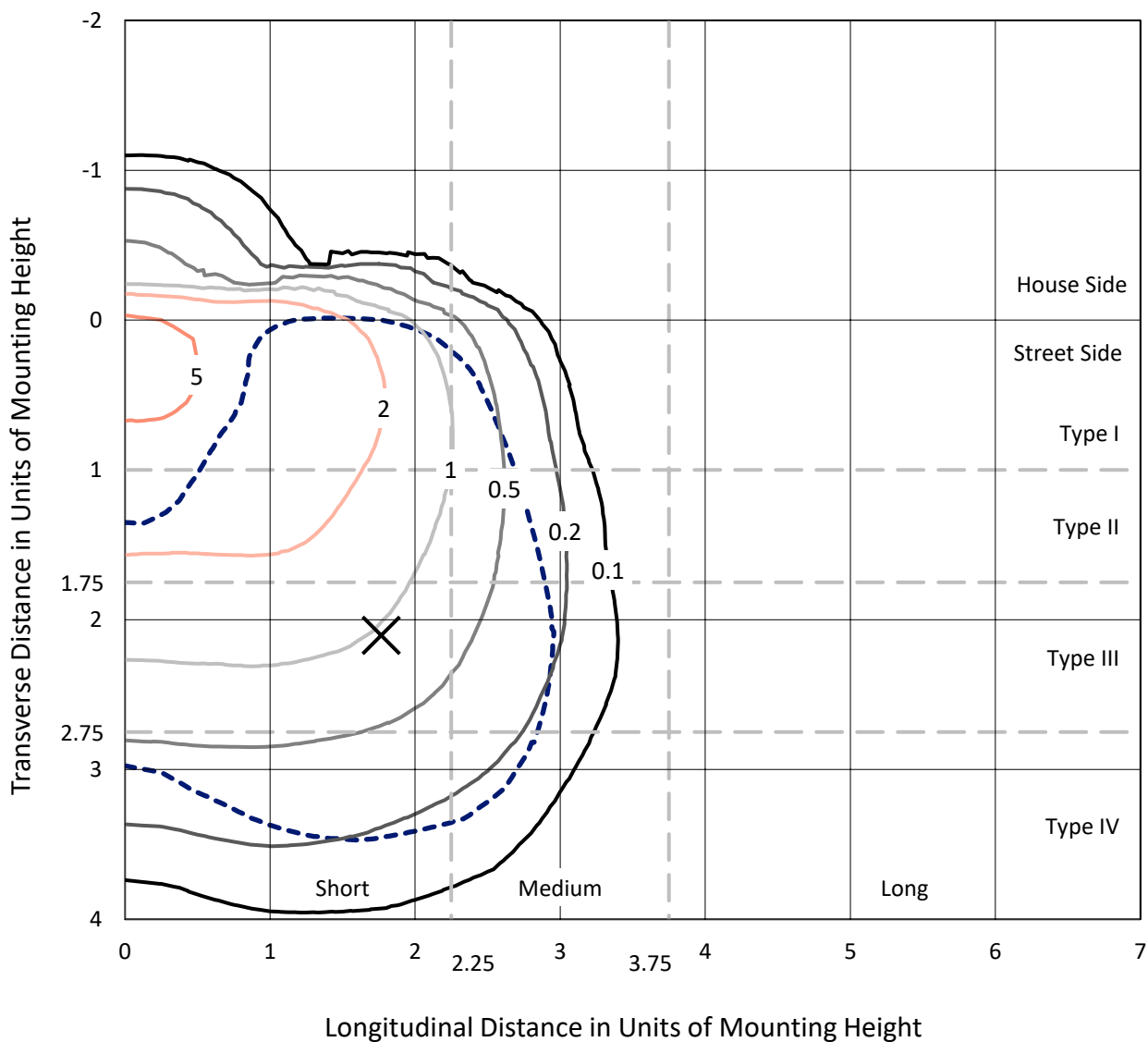
Lumens per Lamp: N/A  
Luminaire Lumens: 30256.6 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

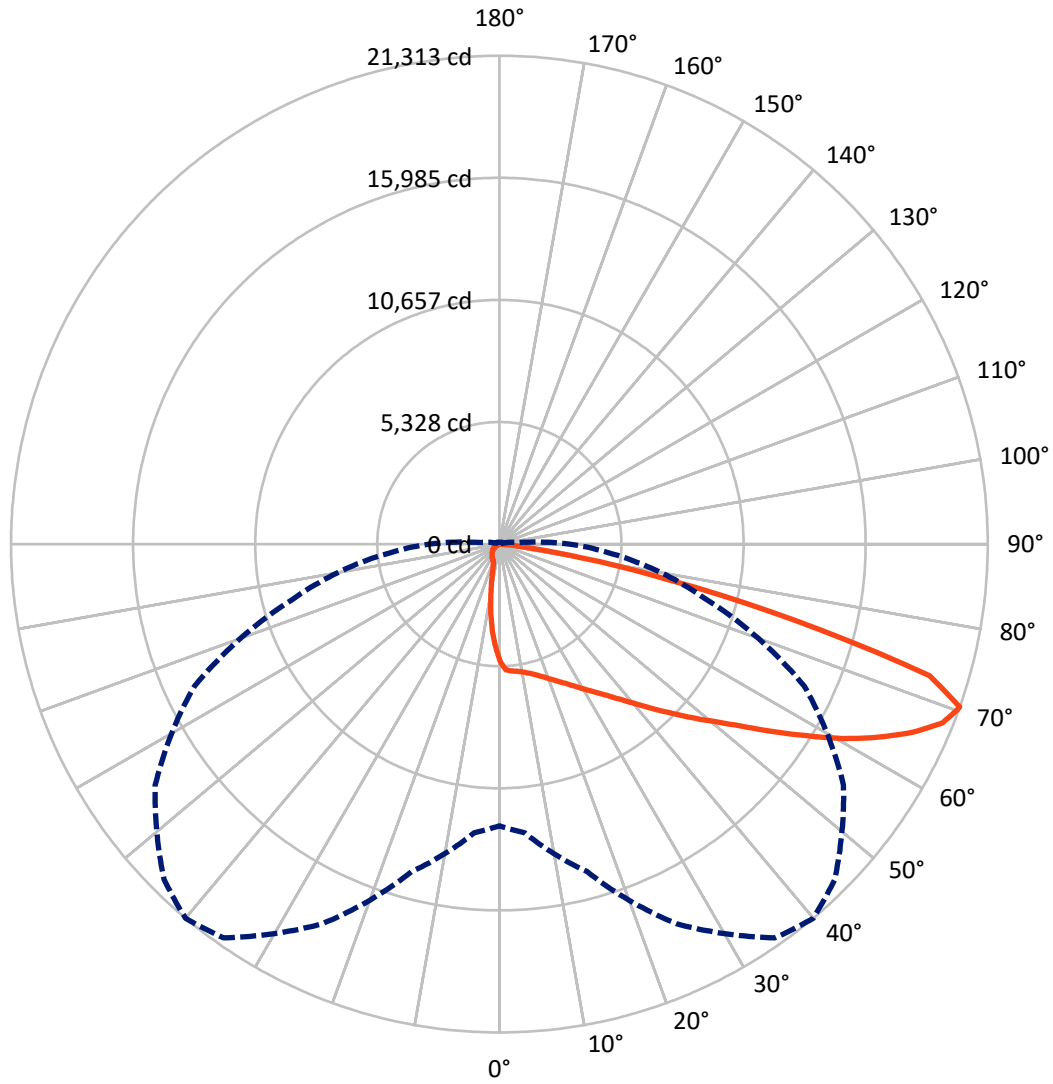
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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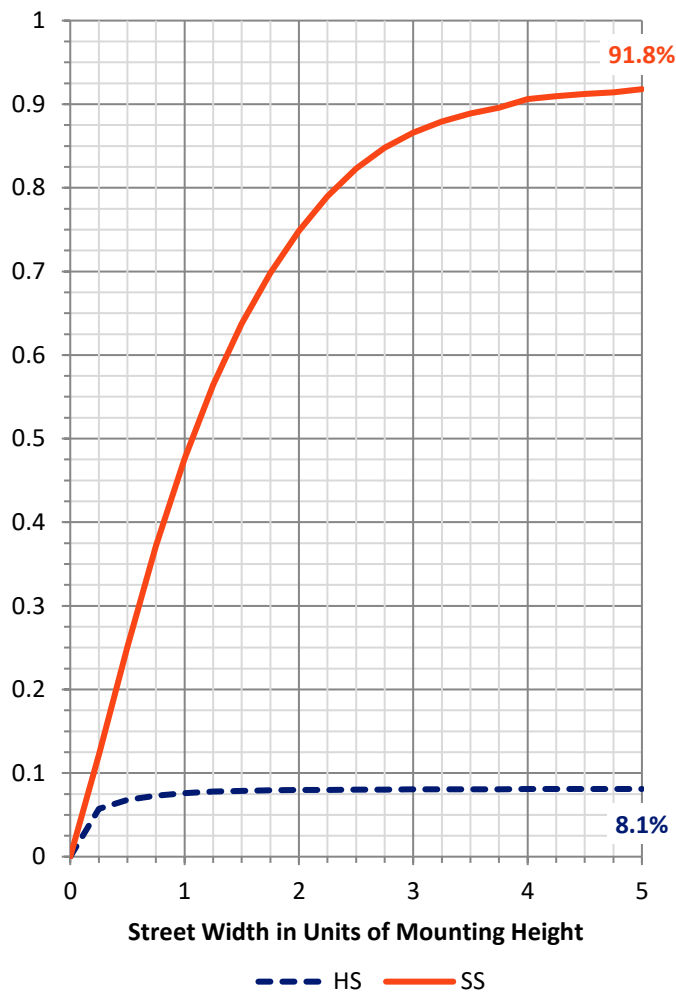
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2474.2	0.0	2474.2
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	27782.4	0.0	27782.4
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	30256.6	0.0	30256.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.9	1.4
10°-20°	1100.6	3.6
20°-30°	1842.0	6.1
30°-40°	2893.1	9.6
40°-50°	4576.2	15.1
50°-60°	6675.5	22.1
60°-70°	8275.2	27.4
70°-80°	4186.8	13.8
80°-90°	273.3	0.9
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°	30256.6	100.0
0°-180°	30256.6	100.0

**Coefficient of Utilization**



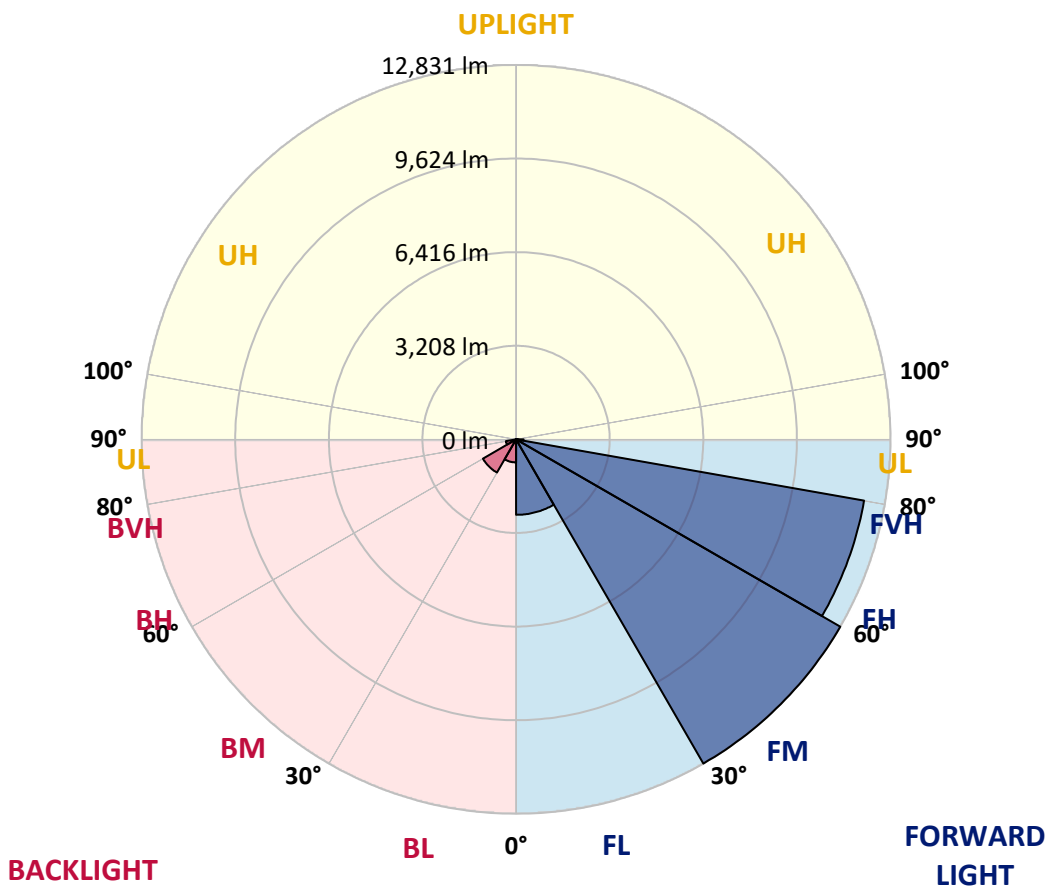
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2586.4	8.5			
FM (30°-60°)	12831.5	42.4			
FH (60°-80°)	12109.2	40.0			G5
FVH (80°-90°)	255.3	0.8			G3/500
BL (0°-30°)	790.1	2.6	B2/1000		
BM (30°-60°)	1313.3	4.3	B2/2500		
BH (60°-80°)	352.8	1.2	B1/500		G1/500
BVH (80°-90°)	18.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2
2.5°	5519.6	5538.9	5536.1	5544.4	5525.1	5494.8	5489.3	5448.0	5373.7	5280.1	5175.5
5°	5632.5	5654.5	5638.0	5629.7	5593.9	5560.9	5552.6	5508.6	5423.2	5296.6	5114.9
7.5°	5728.8	5734.3	5723.3	5704.0	5651.7	5607.7	5577.4	5516.8	5415.0	5288.3	5079.1
10°	5745.3	5742.6	5748.1	5750.8	5717.8	5679.3	5654.5	5571.9	5442.5	5307.6	5081.9
12.5°	5726.1	5726.1	5761.8	5803.1	5803.1	5783.9	5759.1	5684.8	5533.4	5373.7	5136.9
15°	5750.8	5759.1	5827.9	5905.0	5929.8	5910.5	5899.5	5822.4	5665.5	5489.3	5236.0
17.5°	5838.9	5847.2	5957.3	6072.9	6103.2	6081.2	6059.2	5982.1	5814.2	5621.4	5348.9
20°	5968.3	5990.3	6130.7	6279.4	6306.9	6279.4	6235.3	6128.0	5960.1	5764.6	5456.3
22.5°	6205.1	6218.8	6370.2	6527.2	6540.9	6496.9	6430.8	6282.1	6106.0	5916.0	5577.4
25°	6518.9	6538.2	6689.6	6841.0	6805.2	6739.1	6648.3	6480.4	6279.4	6094.9	5731.6
27.5°	6893.3	6915.3	7064.0	7196.1	7102.5	7025.4	6923.6	6714.4	6510.6	6342.7	5929.8
30°	7298.0	7317.2	7449.4	7567.8	7443.9	7353.0	7231.9	7017.2	6810.7	6684.1	6210.6
32.5°	7688.9	7686.1	7812.8	7909.1	7782.5	7710.9	7600.8	7383.3	7218.1	7163.1	6629.0
35°	8052.3	8052.3	8156.9	8253.2	8162.4	8123.8	8022.0	7848.6	7755.0	7821.0	7187.9
37.5°	8418.4	8399.1	8498.2	8605.6	8597.3	8600.1	8542.3	8459.7	8465.2	8699.2	7955.9
40°	8721.2	8713.0	8828.6	8969.0	9079.1	9167.2	9131.4	9161.7	9335.1	9772.8	8938.7
42.5°	8963.5	8982.8	9131.4	9354.4	9632.4	9811.4	9836.2	9960.0	10406.0	11083.2	10048.1
45°	9241.5	9244.3	9450.7	9792.1	10235.3	10518.9	10618.0	10937.3	11570.5	12443.2	11264.9
47.5°	9582.9	9549.9	9781.1	10260.1	10901.5	11320.0	11496.2	11895.3	12875.4	13770.1	12256.0
50°	9960.0	9899.5	10161.0	10813.4	11647.6	12170.6	12528.5	13112.1	14169.2	14860.2	12993.7
52.5°	10397.8	10339.9	10637.3	11449.4	12542.3	13178.2	13637.9	14227.1	15278.7	15691.6	13434.2
55°	10953.8	10896.0	11209.9	12211.9	13599.4	14425.3	14907.0	15402.5	16311.0	16305.5	13753.6
57.5°	11570.5	11490.7	11925.6	13175.4	14918.0	15776.9	16267.0	16509.2	17095.6	16781.8	13968.3
60°	12278.0	12206.4	12809.3	14323.4	16440.4	17236.0	17544.3	17445.2	17739.8	17062.6	13894.0
62.5°	12916.7	12883.6	13632.4	15540.2	17891.2	18562.9	18648.2	18216.0	18213.3	17068.1	13392.9
65°	13580.1	13643.4	14755.6	16941.4	19350.2	19801.7	19655.8	18981.3	18403.2	16393.6	11911.9
67.5°	13827.9	14012.3	15496.1	18207.8	20500.9	20853.3	20597.3	19364.0	17613.1	14125.2	9070.8
70°	12297.3	12644.1	14796.9	18279.3	20977.2	21313.1	20699.2	18334.4	14684.0	9357.2	4969.0
72.5°	9351.6	9756.3	12330.3	14967.6	18865.7	19631.0	18582.2	14937.3	9464.5	4099.1	1668.3
75°	5233.3	5671.0	9183.7	11270.4	12666.2	13365.4	12980.0	9582.9	4192.7	1070.9	498.3
77.5°	1770.1	1916.0	4272.5	6973.1	8360.6	7732.9	6546.4	4759.8	1541.6	407.4	264.3
80°	1048.9	1103.9	1591.2	3471.4	4399.2	3647.6	2879.5	1759.1	784.6	217.5	184.4
82.5°	313.8	371.6	878.2	1288.4	1723.3	1073.6	908.5	1004.8	407.4	118.4	154.2
85°	0.0	0.0	187.2	399.2	451.5	176.2	176.2	569.9	74.3	49.6	112.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	13.8	8.3	11.0	24.8
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°	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2	5134.2
2.5°	5101.1	5004.8	4891.9	4784.6	4682.7	4550.6	4487.2	4410.2	4344.1	4308.3	4327.6
5°	4999.3	4847.9	4616.6	4382.6	4145.9	3922.9	3721.9	3587.0	3465.9	3402.6	3416.4
7.5°	4911.2	4707.5	4346.8	3964.2	3584.3	3201.6	2890.6	2648.3	2461.1	2384.0	2370.3
10°	4872.7	4616.6	4107.3	3556.8	2973.1	2458.4	2017.9	1750.9	1560.9	1467.3	1483.8
12.5°	4891.9	4569.8	3903.6	3157.6	2400.5	1800.4	1379.2	1128.7	993.8	938.7	925.0
15°	4947.0	4558.8	3721.9	2750.2	1852.7	1258.1	952.5	850.7	823.1	817.6	817.6
17.5°	5010.3	4561.6	3534.7	2337.2	1406.7	933.2	814.9	795.6	787.3	781.8	784.6
20°	5073.6	4561.6	3320.0	1918.8	1057.1	806.6	776.3	762.6	754.3	751.5	751.5
22.5°	5150.7	4561.6	3080.5	1530.6	847.9	765.3	740.5	732.3	724.0	721.3	718.5
25°	5244.3	4564.3	2816.2	1197.5	770.8	729.5	710.3	702.0	693.7	688.2	688.2
27.5°	5379.2	4586.4	2524.4	933.2	726.8	696.5	680.0	671.7	663.5	655.2	655.2
30°	5574.6	4641.4	2196.8	770.8	685.5	660.7	644.2	638.7	630.4	622.2	619.4
32.5°	5866.5	4737.8	1858.2	691.0	646.9	622.2	602.9	597.4	589.1	580.9	578.1
35°	6273.9	4913.9	1527.9	641.4	597.4	572.6	561.6	558.8	547.8	539.6	539.6
37.5°	6871.3	5200.3	1211.3	591.9	556.1	536.8	523.1	517.5	506.5	498.3	495.5
40°	7600.8	5571.9	941.5	553.3	517.5	498.3	484.5	476.3	462.5	451.5	446.0
42.5°	8531.3	6026.1	743.3	512.0	481.8	462.5	451.5	435.0	415.7	399.2	396.4
45°	9500.3	6494.1	613.9	473.5	448.7	432.2	418.4	396.4	368.9	349.6	344.1
47.5°	10243.6	6785.9	536.8	432.2	412.9	399.2	382.7	355.1	322.1	300.1	294.6
50°	10774.9	6830.0	479.0	393.7	382.7	368.9	344.1	311.1	275.3	253.3	247.8
52.5°	11036.4	6631.8	432.2	357.9	349.6	335.9	305.6	269.8	231.2	209.2	203.7
55°	11154.8	6257.4	388.2	327.6	316.6	300.1	267.0	228.5	190.0	170.7	165.2
57.5°	11108.0	5704.0	349.6	297.3	283.6	264.3	228.5	187.2	156.9	137.6	134.9
60°	10761.1	4927.7	311.1	267.0	250.5	228.5	192.7	154.2	126.6	112.9	110.1
62.5°	10012.3	3964.2	272.5	231.2	220.2	198.2	165.2	126.6	104.6	96.4	93.6
65°	8479.0	2802.5	234.0	195.5	190.0	167.9	137.6	104.6	90.8	85.3	82.6
67.5°	6094.9	1704.1	198.2	167.9	162.4	143.2	115.6	90.8	82.6	79.8	79.8
70°	3064.0	806.6	156.9	137.6	137.6	118.4	99.1	82.6	79.8	77.1	77.1
72.5°	1040.6	344.1	118.4	107.4	112.9	101.9	85.3	77.1	77.1	77.1	77.1
75°	355.1	181.7	82.6	77.1	82.6	82.6	74.3	74.3	77.1	77.1	77.1
77.5°	231.2	121.1	57.8	52.3	63.3	63.3	63.3	68.8	74.3	74.3	74.3
80°	190.0	66.1	38.5	35.8	46.8	46.8	52.3	63.3	68.8	68.8	68.8
82.5°	162.4	41.3	22.0	24.8	33.0	35.8	44.0	52.3	60.6	63.3	63.3
85°	110.1	22.0	16.5	19.3	22.0	27.5	35.8	44.0	49.6	55.1	55.1
87.5°	30.3	8.3	11.0	13.8	13.8	19.3	27.5	33.0	38.5	41.3	41.3
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)