

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: P637749

Luminaire Tested: GWS-SA4D-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-740-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

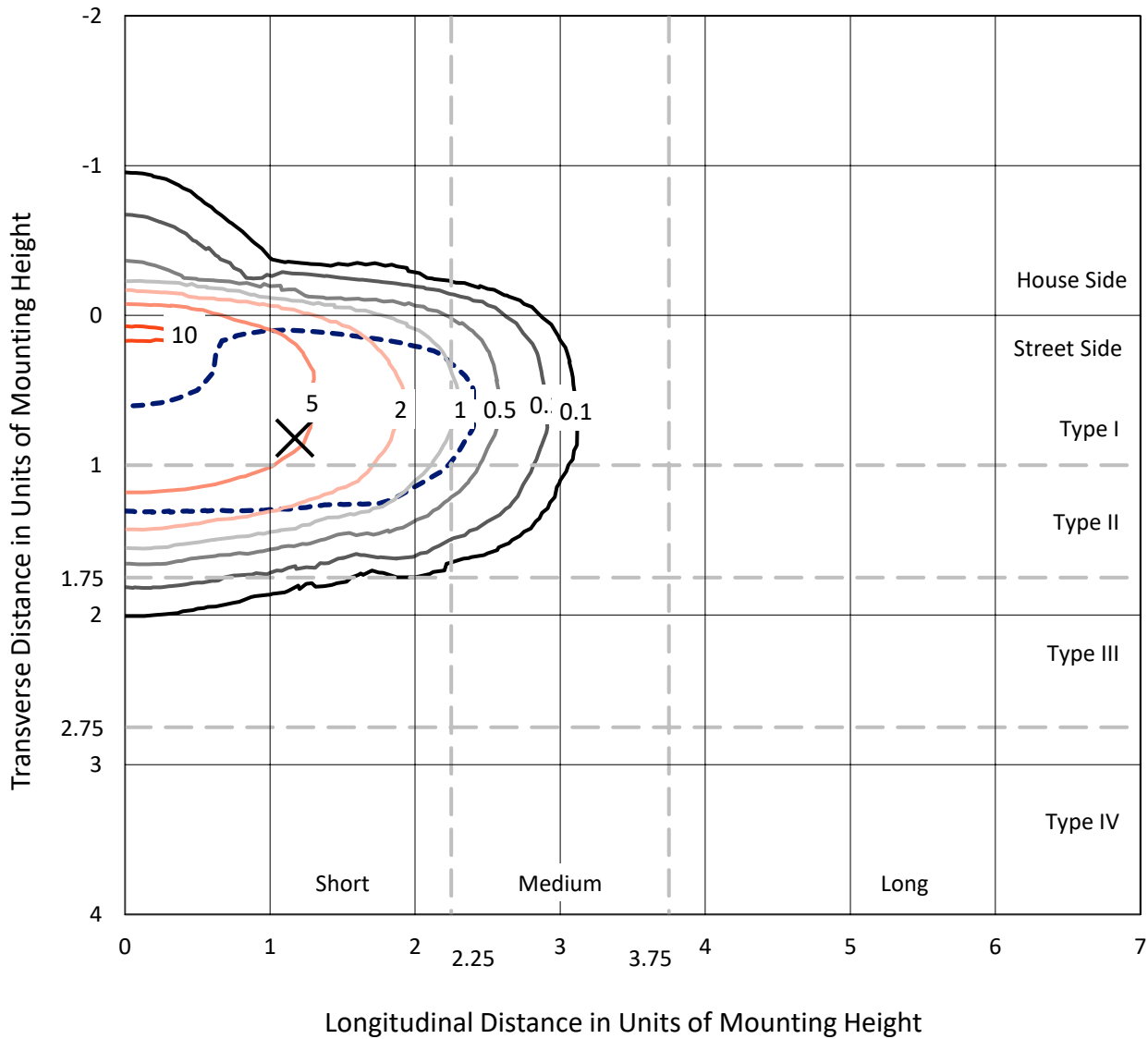
Lumens per Lamp: N/A  
Luminaire Lumens: 20536.3 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

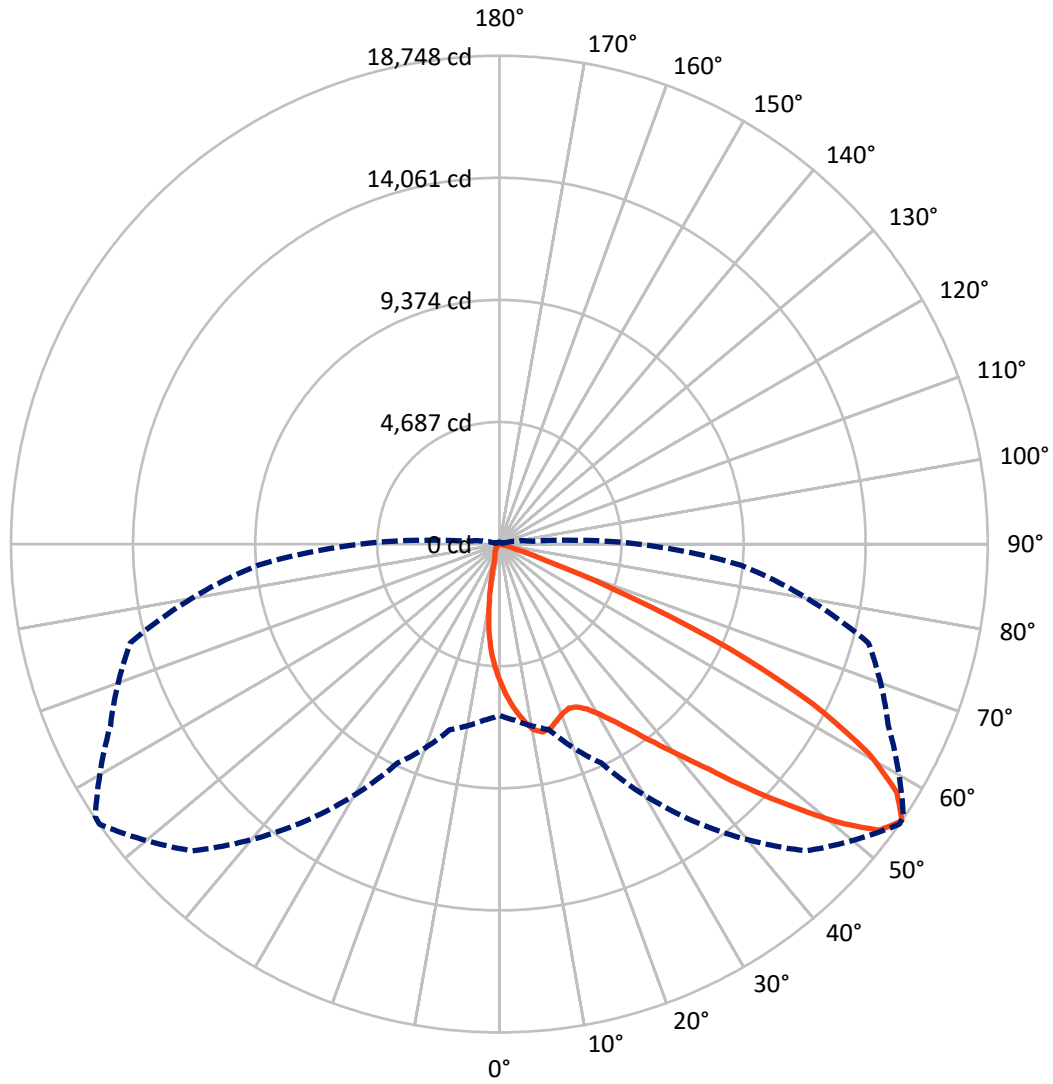
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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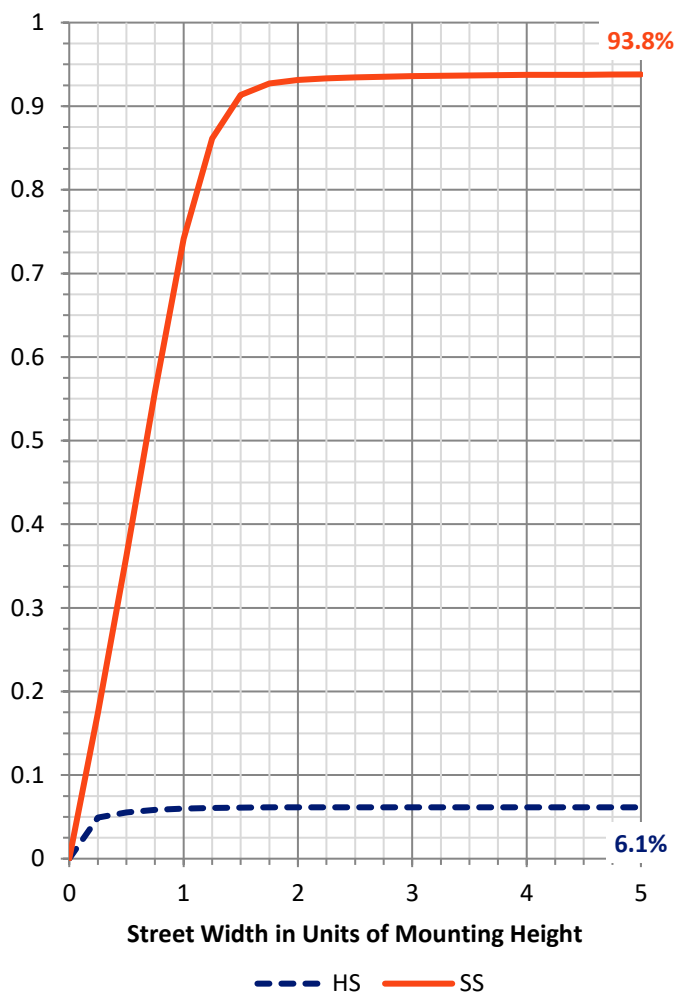
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1267.2	0.0	1267.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19269.1	0.0	19269.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20536.3	0.0	20536.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	468.9	2.3
10°-20°	1130.4	5.5
20°-30°	1882.5	9.2
30°-40°	3207.9	15.6
40°-50°	5236.5	25.5
50°-60°	5482.3	26.7
60°-70°	2765.2	13.5
70°-80°	349.3	1.7
80°-90°	13.3	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°	20536.3	100.0
0°-180°	20536.3	100.0

**Coefficient of Utilization**



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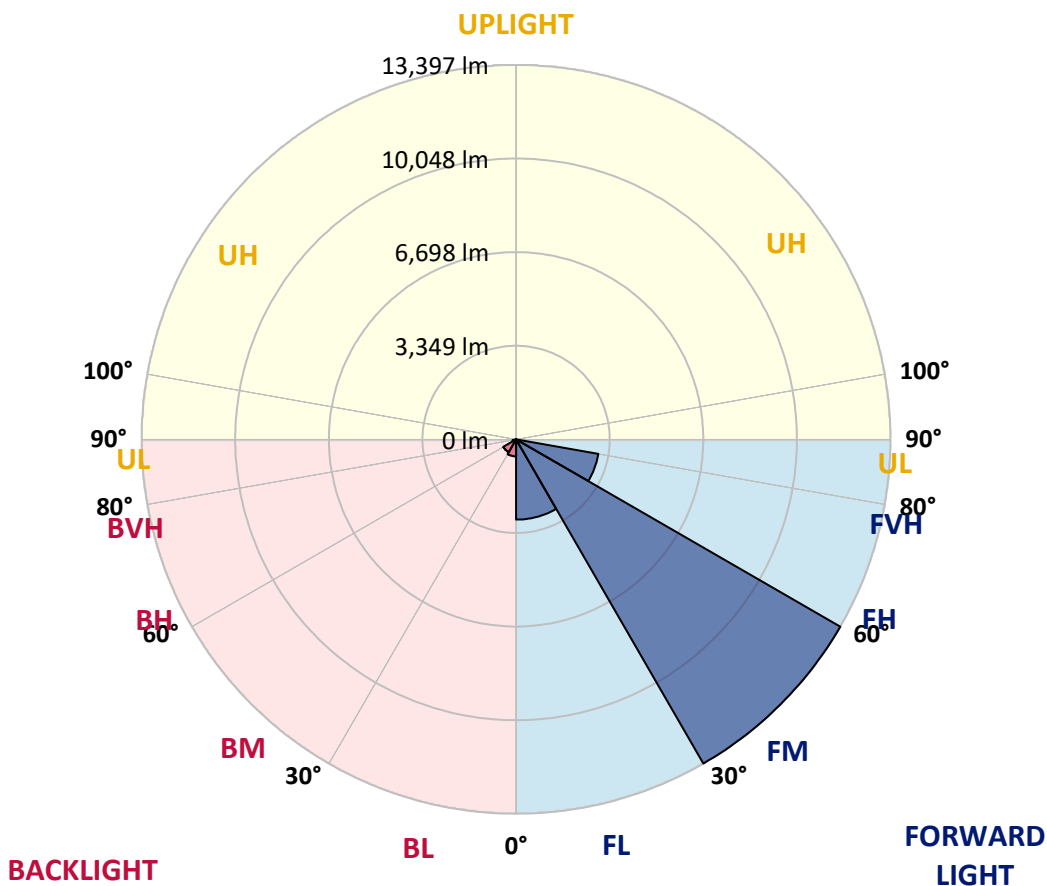
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.7	14.0			
FM (30°-60°)	13397.0	65.2			
FH (60°-80°)	2987.3	14.5			G2/5000
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	609.1	3.0	B2/1000		
BM (30°-60°)	529.8	2.6	B1/1000		
BH (60°-80°)	127.1	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4
2.5°	6184.9	6155.1	6200.7	6148.1	6058.5	5983.0	5884.7	5849.6	5691.6	5542.4	5398.4
5°	6936.3	6945.1	6931.0	6857.3	6730.9	6590.5	6392.1	6348.2	6072.6	5788.2	5480.9
7.5°	7122.4	7117.1	7147.0	7175.1	7154.0	7083.8	6867.8	6824.0	6481.6	6055.0	5607.3
10°	6548.3	6551.8	6613.3	6802.9	7038.1	7282.2	7248.8	7224.2	6888.9	6357.0	5747.8
12.5°	5737.3	5768.9	5833.8	6104.2	6502.7	7057.5	7401.5	7426.1	7262.9	6688.8	5912.8
15°	5386.1	5393.2	5445.8	5609.1	5905.8	6590.5	7336.6	7405.1	7575.3	7022.3	6091.9
17.5°	5377.4	5386.1	5409.0	5480.9	5674.0	6223.5	7127.7	7247.1	7810.6	7380.5	6306.1
20°	5707.4	5702.1	5686.3	5647.7	5732.0	6102.4	6934.6	7066.2	7938.8	7729.8	6522.0
22.5°	6306.1	6299.0	6228.8	6069.1	6000.6	6213.0	6839.8	6959.1	8016.0	8040.6	6699.3
25°	6996.0	7045.2	6913.5	6671.2	6502.7	6495.7	6924.0	7008.3	8082.7	8316.2	6820.4
27.5°	7752.7	7768.5	7656.1	7384.0	7140.0	6948.6	7168.1	7231.3	8156.4	8562.0	6888.9
30°	8583.1	8577.8	8449.6	8133.6	7836.9	7561.3	7578.9	7603.4	8328.5	8842.9	6964.4
32.5°	9620.6	9643.4	9415.2	8985.1	8628.7	8247.7	8116.1	8119.6	8639.2	9204.5	7078.5
35°	11030.3	10974.2	10672.2	10059.5	9452.1	9041.3	8816.5	8797.2	9118.5	9690.8	7276.9
37.5°	12373.4	12378.6	12062.6	11388.5	10621.3	9973.5	9655.7	9603.0	9792.7	10365.0	7606.9
40°	13305.6	13323.1	13191.5	12838.6	12025.8	11109.3	10642.4	10587.9	10666.9	11218.2	8038.8
42.5°	13798.9	13848.1	13884.9	13967.4	13351.2	12527.9	11809.8	11804.6	11722.0	12190.8	8539.2
45°	13818.2	13891.9	14116.7	14680.2	14750.4	14146.5	13365.3	13247.6	12929.9	13231.8	8986.8
47.5°	13054.5	13224.8	13702.3	14818.9	15556.2	15756.4	14982.2	14910.2	14018.3	14055.2	9322.2
50°	11274.4	11451.7	12331.2	14107.9	15759.9	17034.4	16757.1	16607.8	14927.7	14599.4	9483.7
52.5°	9448.6	9610.1	10207.0	12415.5	14915.4	17436.5	18252.8	18075.5	15744.1	14789.0	9417.0
55°	6574.7	6790.6	7373.5	9280.0	12970.3	16653.5	18747.9	18711.0	16472.7	14669.7	9313.4
57.5°	3223.3	3437.4	4018.5	5721.5	9608.3	14539.8	17991.2	18186.1	16908.0	14541.5	9229.1
60°	1346.5	1434.3	1634.4	2510.5	5375.6	10988.2	16283.0	16553.4	16641.2	14367.7	9220.3
62.5°	781.2	795.3	816.3	1041.1	2090.9	6299.0	13507.5	13891.9	15238.5	14137.7	9081.6
65°	589.9	595.1	586.4	639.0	863.7	2389.4	9759.3	10282.5	12719.2	13238.9	8533.9
67.5°	484.5	484.5	461.7	472.3	542.5	895.3	5387.9	6118.2	9411.7	10881.1	7046.9
70°	386.2	395.0	384.5	370.4	388.0	495.1	1917.1	2377.1	5480.9	6425.4	4109.8
72.5°	293.2	293.2	310.7	300.2	287.9	310.7	668.9	751.4	2199.7	2679.0	1483.5
75°	226.5	233.5	245.8	235.2	217.7	184.3	321.3	340.6	663.6	623.2	331.8
77.5°	115.9	117.6	156.2	172.0	161.5	112.4	140.4	154.5	215.9	193.1	122.9
80°	70.2	73.7	87.8	135.2	107.1	59.7	57.9	61.4	101.8	87.8	50.9
82.5°	29.8	31.6	49.2	49.2	43.9	22.8	22.8	22.8	49.2	45.6	21.1
85°	0.0	0.0	8.8	7.0	7.0	8.8	8.8	8.8	12.3	17.6	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	5.3
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°	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4	5305.4
2.5°	5305.4	5193.0	5042.0	4905.1	4720.8	4617.2	4473.2	4355.6	4255.5	4223.9	4209.9
5°	5307.1	5114.0	4791.0	4468.0	4071.2	3758.7	3437.4	3182.9	2974.0	2907.2	2889.7
7.5°	5342.2	5057.8	4534.7	3948.3	3284.7	2737.0	2247.1	1808.3	1604.6	1536.1	1522.1
10°	5389.6	5010.4	4238.0	3325.1	2371.8	1667.8	1181.5	900.6	767.2	693.5	704.0
12.5°	5451.1	4971.8	3909.7	2650.9	1569.5	916.4	649.6	544.2	516.1	502.1	495.1
15°	5533.6	4926.2	3502.4	1982.1	962.1	589.9	500.3	472.3	461.7	454.7	452.9
17.5°	5617.9	4873.5	3088.1	1393.9	639.0	489.8	449.4	435.4	428.4	423.1	421.3
20°	5707.4	4784.0	2601.8	960.3	503.9	440.7	414.3	398.5	389.7	381.0	379.2
22.5°	5746.0	4640.0	2136.5	672.4	447.7	405.5	372.2	352.9	342.3	335.3	335.3
25°	5709.2	4406.5	1655.5	510.9	407.3	366.9	333.6	312.5	303.7	296.7	296.7
27.5°	5610.8	4106.3	1207.8	423.1	363.4	326.5	294.9	275.6	268.6	265.1	265.1
30°	5502.0	3727.1	851.5	363.4	314.2	284.4	258.1	245.8	244.0	240.5	240.5
32.5°	5409.0	3372.5	586.4	319.5	277.4	247.5	230.0	224.7	226.5	223.0	224.7
35°	5358.0	3024.9	435.4	284.4	247.5	219.4	210.7	210.7	210.7	208.9	208.9
37.5°	5379.1	2682.5	354.6	259.8	221.2	200.1	191.4	194.9	198.4	198.4	198.4
40°	5484.4	2378.8	314.2	237.0	198.4	182.6	175.6	180.8	186.1	189.6	189.6
42.5°	5617.9	2133.0	284.4	217.7	182.6	165.0	161.5	166.8	172.0	175.6	175.6
45°	5702.1	1885.5	254.6	193.1	166.8	145.7	145.7	152.7	151.0	152.7	152.7
47.5°	5740.8	1688.9	224.7	166.8	142.2	126.4	128.2	131.7	128.2	131.7	131.7
50°	5646.0	1490.5	198.4	138.7	117.6	110.6	114.1	112.4	112.4	119.4	119.4
52.5°	5472.2	1343.0	175.6	117.6	100.1	98.3	101.8	94.8	96.6	96.6	94.8
55°	5344.0	1258.8	156.2	101.8	86.0	87.8	86.0	73.7	66.7	59.7	57.9
57.5°	5280.8	1225.4	142.2	91.3	77.2	77.2	70.2	50.9	38.6	29.8	26.3
60°	5266.8	1185.0	128.2	79.0	68.5	65.0	50.9	29.8	19.3	14.0	12.3
62.5°	5133.3	1086.7	115.9	63.2	59.7	52.7	31.6	17.6	10.5	7.0	5.3
65°	4696.2	893.6	103.6	49.2	45.6	38.6	19.3	10.5	5.3	1.8	0.0
67.5°	3735.9	633.8	91.3	36.9	31.6	24.6	12.3	7.0	1.8	0.0	0.0
70°	2154.1	342.3	75.5	26.3	21.1	15.8	8.8	3.5	0.0	0.0	0.0
72.5°	719.8	159.8	57.9	17.6	15.8	12.3	5.3	1.8	0.0	0.0	0.0
75°	158.0	94.8	38.6	12.3	10.5	8.8	3.5	0.0	0.0	0.0	0.0
77.5°	59.7	66.7	19.3	8.8	7.0	5.3	1.8	0.0	0.0	0.0	0.0
80°	22.8	43.9	8.8	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	17.6	5.3	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	8.8	3.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.8	1.8	1.8	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)