

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: P637779

Luminaire Tested: GWS-SA4D-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637779  
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-SA4D-740-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19749.9 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

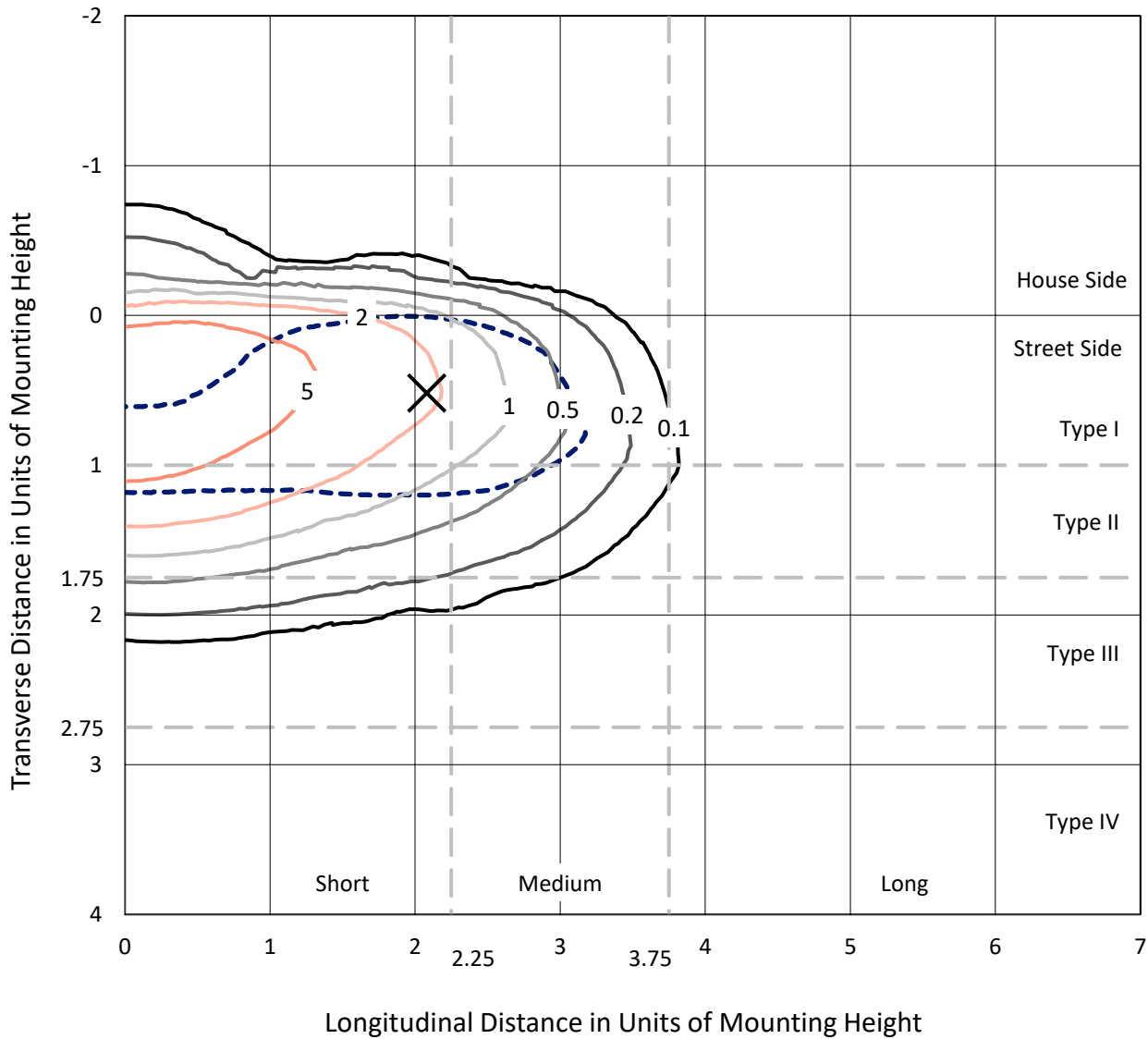
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P637779  
 CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

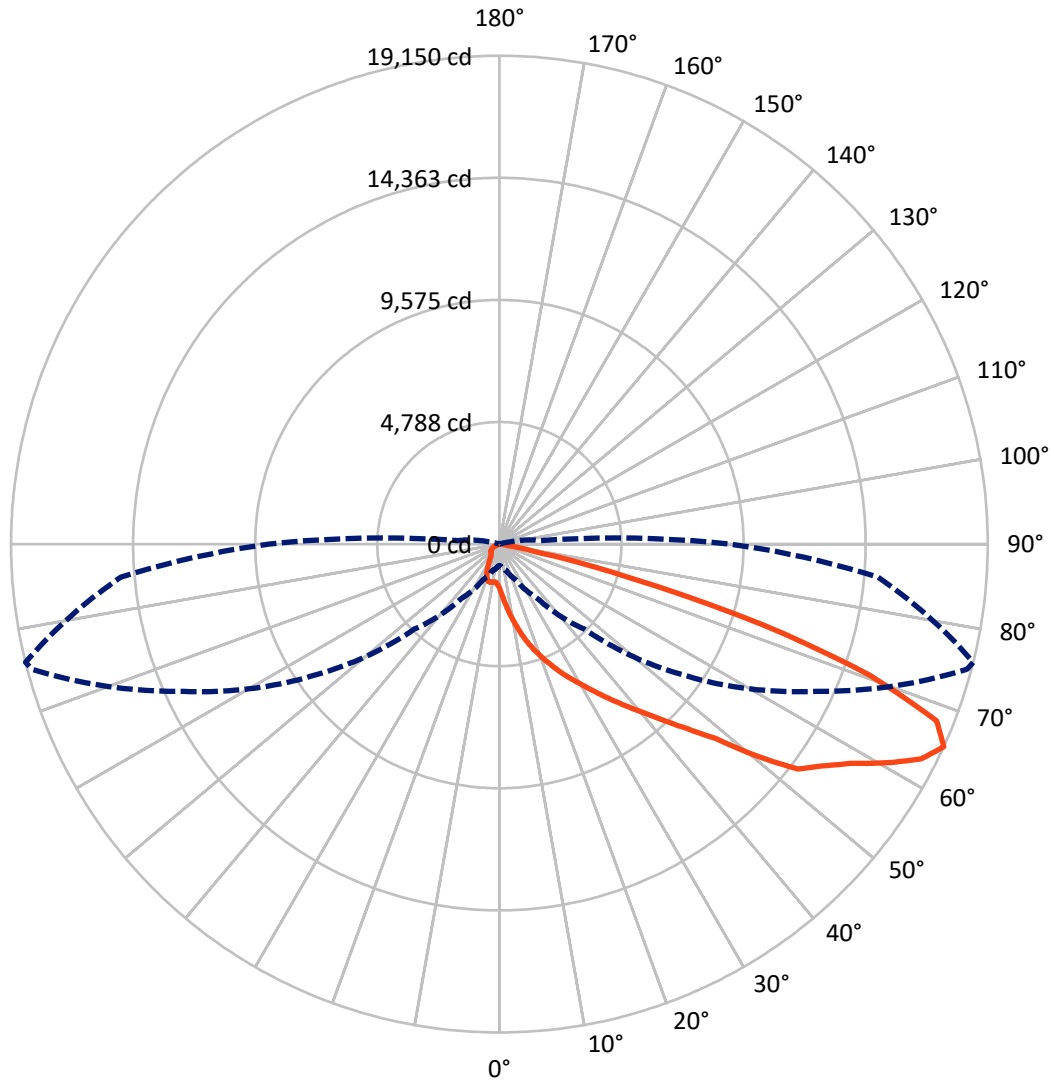
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P637779  
CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637779

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-HSS

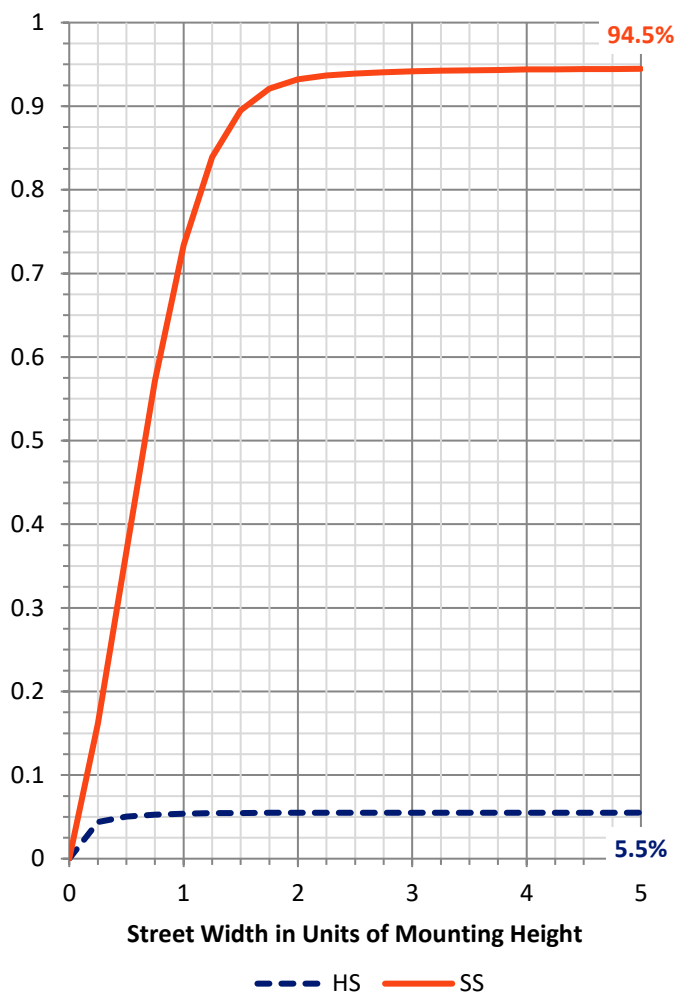
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1092.1	0.0	1092.1
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	18657.9	0.0	18657.9
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	19749.9	0.0	19749.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	1.1
10°-20°	807.2	4.1
20°-30°	1646.8	8.3
30°-40°	2928.8	14.8
40°-50°	4329.5	21.9
50°-60°	4956.9	25.1
60°-70°	3781.9	19.1
70°-80°	1059.4	5.4
80°-90°	26.7	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°	19749.9	100.0
0°-180°	19749.9	100.0

**Coefficient of Utilization**



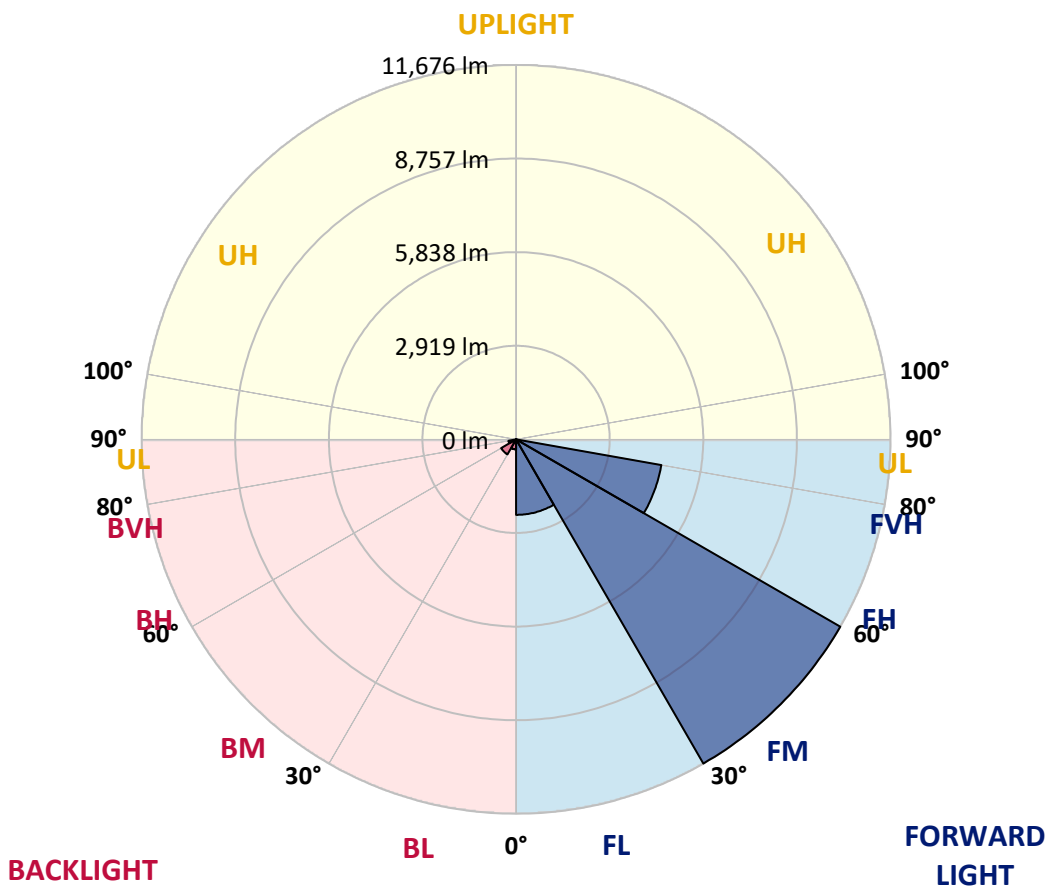
REPORT NUMBER: P637779

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.0	11.9			
FM (30°-60°)	11676.5	59.1			
FH (60°-80°)	4601.2	23.3			G2/5000
FVH (80°-90°)	25.1	0.1			G1/100
BL (0°-30°)	311.6	1.6	B1/500		
BM (30°-60°)	538.8	2.7	B1/1000		
BH (60°-80°)	240.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2**  
 Type II Short





REPORT NUMBER: P637779

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6
2.5°	2694.9	2735.2	2703.6	2651.0	2549.1	2450.8	2324.4	2150.6	2011.9	1994.4	1864.5
5°	3639.4	3635.9	3567.4	3498.9	3391.8	3223.3	2968.7	2645.7	2335.0	2308.6	2017.2
7.5°	4201.2	4206.4	4167.8	4115.1	4009.8	3836.0	3570.9	3181.2	2726.5	2673.8	2226.1
10°	4673.4	4671.7	4643.6	4619.0	4524.2	4408.3	4123.9	3695.6	3147.8	3065.3	2459.6
12.5°	5028.1	5040.4	5054.4	5079.0	5038.6	4924.5	4655.9	4188.9	3574.4	3483.1	2726.5
15°	5309.0	5312.5	5365.1	5459.9	5493.3	5433.6	5189.6	4666.4	3995.8	3916.8	3033.7
17.5°	5393.2	5400.3	5489.8	5663.6	5839.2	5872.5	5688.2	5147.4	4410.1	4325.8	3332.1
20°	5570.5	5586.3	5653.1	5805.8	6027.0	6206.1	6134.1	5633.7	4824.4	4713.8	3637.6
22.5°	6128.8	6137.6	6114.8	6134.1	6248.2	6455.4	6499.3	6104.3	5249.3	5131.6	3967.7
25°	7089.1	7092.7	6932.9	6781.9	6695.9	6734.5	6831.1	6537.9	5670.6	5554.7	4274.9
27.5°	8086.3	8098.6	7907.3	7650.9	7343.7	7168.2	7140.1	6934.7	6095.5	5967.3	4578.6
30°	9025.6	9025.6	8823.7	8511.2	8100.4	7758.0	7556.1	7334.9	6550.2	6409.7	4889.4
32.5°	9870.0	9863.0	9604.9	9266.1	8860.6	8484.9	8060.0	7752.8	7055.8	6899.5	5247.5
35°	10567.0	10549.5	10256.3	9931.5	9497.8	9218.7	8744.7	8202.2	7603.5	7447.3	5616.2
37.5°	11093.7	11074.4	10805.8	10461.7	10059.6	9878.8	9482.0	8741.2	8181.1	8038.9	6025.2
40°	11379.9	11341.2	11155.1	10898.8	10561.7	10403.7	10238.7	9410.1	8860.6	8683.2	6508.0
42.5°	11464.1	11418.5	11295.6	11176.2	10972.6	10847.9	11025.2	10165.0	9606.7	9454.0	7059.3
45°	11214.8	11188.5	11178.0	11264.0	11300.9	11336.0	11773.1	11000.6	10430.1	10314.2	7752.8
47.5°	10614.4	10607.4	10700.4	11058.6	11448.3	11818.8	12586.0	12031.2	11497.5	11372.8	8721.9
50°	9504.9	9576.8	9836.7	10465.2	11244.7	12092.6	13346.1	13460.3	13225.0	13042.4	9985.9
52.5°	7770.3	7909.0	8491.9	9446.9	10567.0	12015.4	13697.3	14604.9	14845.4	14655.8	10891.8
55°	6097.2	6227.1	6746.8	7958.2	9452.2	11427.3	13713.1	14999.9	15524.8	15349.3	11504.5
57.5°	4541.8	4661.1	5133.4	6292.1	7935.4	10270.3	13337.4	15219.4	16330.7	16218.3	12471.8
60°	2968.7	3086.4	3513.0	4526.0	6155.2	8584.9	12412.2	15173.7	17427.9	17417.4	13660.4
62.5°	1646.8	1739.8	2048.8	2838.8	4296.0	6648.5	10958.5	14715.5	18490.1	18556.8	14640.0
65°	842.7	902.4	1090.2	1560.7	2600.1	4713.8	9046.7	13665.7	18981.6	19150.2	14898.1
67.5°	551.3	570.6	616.2	811.1	1392.2	2965.2	6808.3	11982.0	18289.9	18486.6	14032.6
70°	447.7	463.5	489.8	540.7	718.0	1574.8	4471.5	9569.8	15282.6	15416.0	11174.5
72.5°	328.3	349.4	400.3	433.6	517.9	863.8	2326.2	6281.6	10495.0	10730.3	7022.4
75°	242.3	254.6	296.7	342.3	423.1	546.0	890.1	3302.3	5419.6	5282.6	2949.4
77.5°	145.7	154.5	189.6	219.5	302.0	340.6	310.7	1220.1	1648.5	1550.2	712.8
80°	72.0	80.8	124.6	165.0	193.1	136.9	129.9	340.6	366.9	366.9	179.1
82.5°	24.6	31.6	66.7	108.8	94.8	52.7	61.4	87.8	98.3	103.6	52.7
85°	0.0	0.0	15.8	31.6	14.0	7.0	15.8	19.3	24.6	26.3	17.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637779

CATALOG NUMBER: GWS-SA4D-740-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6	1748.6
2.5°	1794.2	1711.7	1587.1	1474.7	1388.7	1307.9	1246.5	1197.3	1188.5	1160.5	1164.0
5°	1875.0	1725.8	1495.8	1318.5	1193.8	1109.5	1039.3	986.7	963.8	941.0	923.5
7.5°	1999.6	1783.7	1460.7	1244.7	1099.0	969.1	860.2	772.5	730.3	704.0	686.4
10°	2152.4	1864.5	1462.4	1200.8	984.9	786.5	637.3	540.7	495.1	481.0	479.3
12.5°	2335.0	1966.3	1476.5	1128.9	819.9	584.6	472.3	428.4	414.3	402.0	402.0
15°	2528.1	2080.4	1476.5	997.2	625.0	456.5	409.1	381.0	363.4	356.4	352.9
17.5°	2731.7	2187.5	1441.4	816.4	479.3	402.0	363.4	337.1	323.0	312.5	309.0
20°	2949.4	2289.3	1353.6	625.0	410.8	359.9	323.0	296.7	282.7	272.1	272.1
22.5°	3170.6	2384.1	1211.4	481.0	363.4	319.5	284.4	259.8	245.8	235.3	235.3
25°	3376.0	2447.3	1028.8	396.8	328.3	284.4	252.8	228.2	212.4	205.4	201.9
27.5°	3567.4	2487.7	826.9	349.4	294.9	254.6	221.2	198.4	186.1	180.8	177.3
30°	3765.8	2498.2	632.0	317.8	266.9	224.7	193.1	175.6	165.0	158.0	158.0
32.5°	3958.9	2485.9	482.8	291.4	242.3	198.4	172.0	156.2	147.5	142.2	140.4
35°	4155.5	2429.8	391.5	268.6	217.7	173.8	152.7	140.4	135.2	128.2	128.2
37.5°	4369.7	2354.3	340.6	245.8	193.1	156.2	136.9	128.2	121.1	115.9	114.1
40°	4636.6	2266.5	312.5	226.5	170.3	140.4	122.9	114.1	108.8	103.6	101.8
42.5°	4952.6	2180.5	298.5	205.4	152.7	124.6	110.6	100.1	94.8	87.8	86.0
45°	5400.3	2161.2	282.7	182.6	136.9	112.4	96.6	86.0	79.0	73.7	72.0
47.5°	6120.1	2215.6	256.3	158.0	121.1	98.3	82.5	73.7	65.0	59.7	56.2
50°	6834.6	2201.5	230.0	136.9	107.1	84.3	70.2	61.4	52.7	47.4	45.6
52.5°	7224.3	2134.8	205.4	121.1	93.0	72.0	59.7	49.2	43.9	38.6	36.9
55°	7577.2	2108.5	180.8	105.3	79.0	63.2	49.2	40.4	36.9	31.6	29.8
57.5°	8268.9	2169.9	159.8	91.3	68.5	54.4	42.1	33.4	29.8	24.6	22.8
60°	8992.2	2177.0	136.9	79.0	59.7	45.6	33.4	26.3	22.8	17.6	15.8
62.5°	9369.7	1999.6	112.4	66.7	49.2	38.6	28.1	21.1	17.6	10.5	10.5
65°	9053.7	1616.9	94.8	54.4	38.6	29.8	21.1	15.8	10.5	5.3	1.8
67.5°	8012.6	1149.9	79.0	43.9	28.1	21.1	15.8	10.5	1.8	0.0	0.0
70°	5867.2	656.6	61.4	31.6	21.1	14.0	10.5	5.3	0.0	0.0	0.0
72.5°	3606.0	351.1	45.6	21.1	15.8	10.5	8.8	3.5	0.0	0.0	0.0
75°	1367.6	168.5	28.1	14.0	12.3	8.8	5.3	1.8	0.0	0.0	0.0
77.5°	370.4	82.5	15.8	10.5	8.8	5.3	3.5	0.0	0.0	0.0	0.0
80°	96.6	38.6	10.5	7.0	5.3	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	33.4	17.6	5.3	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	3.5	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	1.8	1.8	1.8	1.8	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)