

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: P633324

Luminaire Tested: GWS-SA2E-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633324  
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-SA2E-740-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

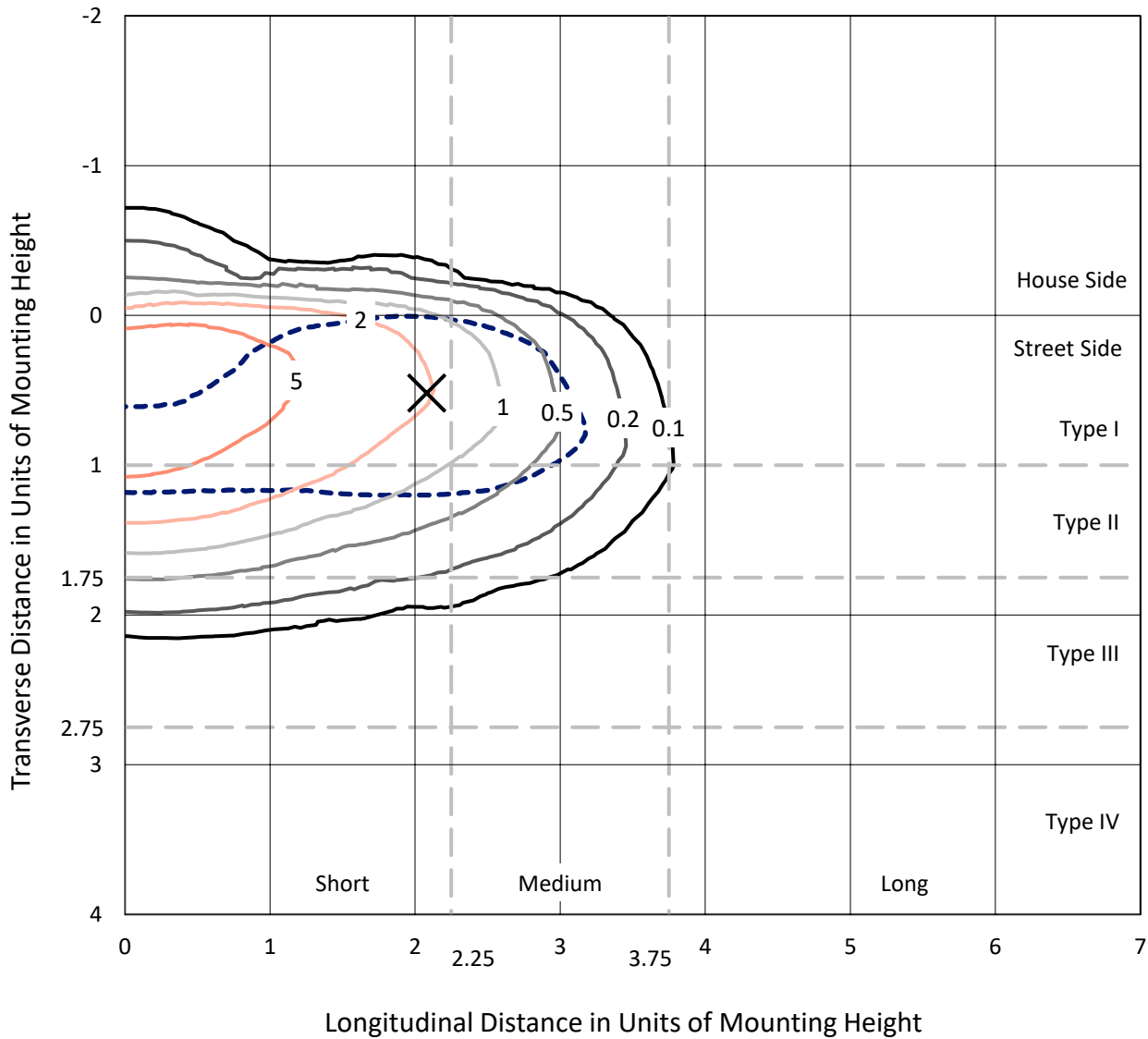
Lumens per Lamp: N/A  
Luminaire Lumens: 11767.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

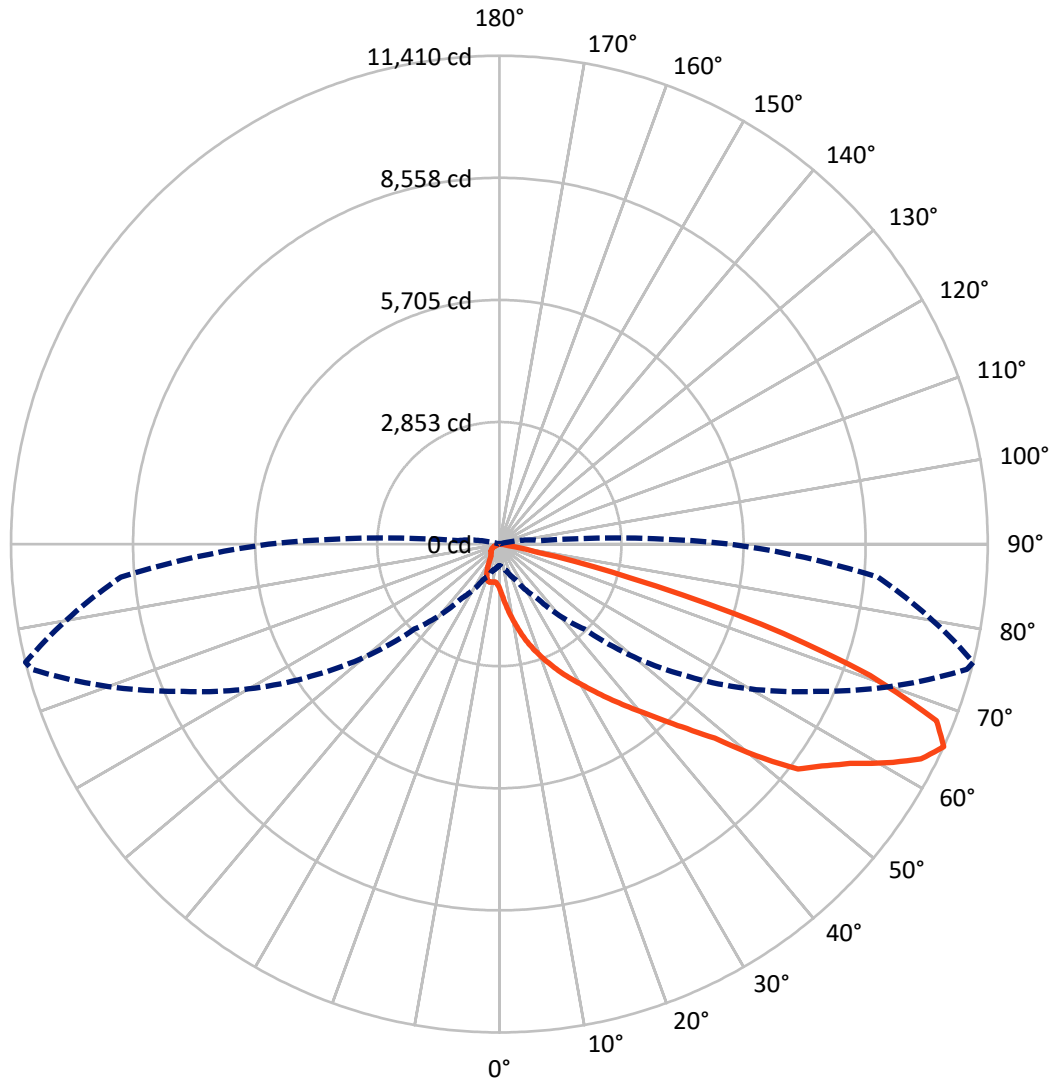
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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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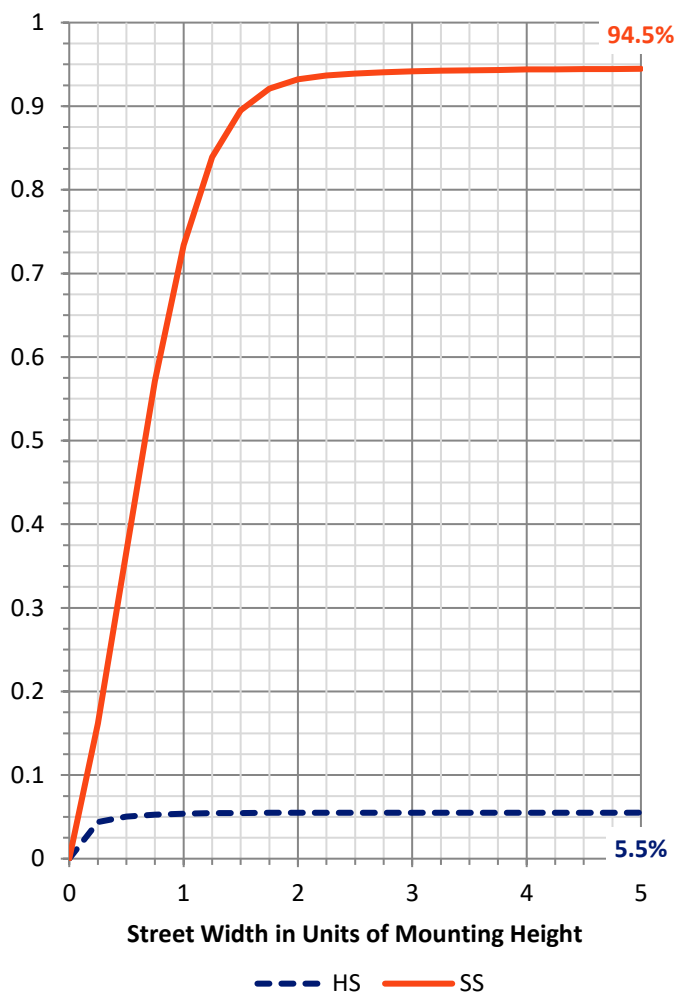
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	650.7	0.0	650.7
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	11116.7	0.0	11116.7
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	11767.4	0.0	11767.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	1.1
10°-20°	480.9	4.1
20°-30°	981.2	8.3
30°-40°	1745.1	14.8
40°-50°	2579.6	21.9
50°-60°	2953.5	25.1
60°-70°	2253.3	19.1
70°-80°	631.2	5.4
80°-90°	15.9	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°	11767.4	100.0
0°-180°	11767.4	100.0

**Coefficient of Utilization**



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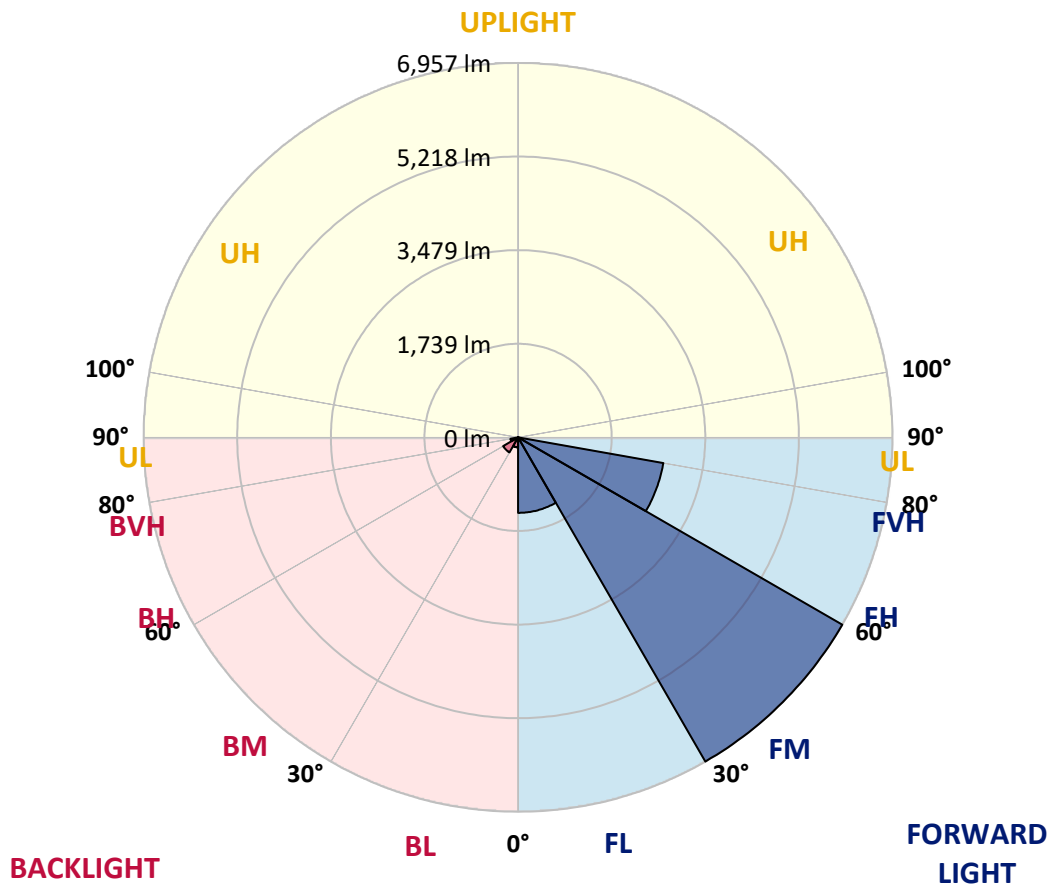
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1403.2	11.9			
FM (30°-60°)	6957.1	59.1			
FH (60°-80°)	2741.5	23.3			G2/5000
FVH (80°-90°)	15.0	0.1			G1/100
BL (0°-30°)	185.7	1.6	B1/500		
BM (30°-60°)	321.0	2.7	B1/1000		
BH (60°-80°)	143.0	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8
2.5°	1605.7	1629.7	1610.9	1579.5	1518.8	1460.3	1384.9	1281.4	1198.7	1188.3	1110.9
5°	2168.4	2166.3	2125.5	2084.7	2020.9	1920.5	1768.8	1576.4	1391.2	1375.5	1201.9
7.5°	2503.1	2506.3	2483.3	2451.9	2389.1	2285.6	2127.6	1895.4	1624.5	1593.1	1326.4
10°	2784.5	2783.5	2766.7	2752.1	2695.6	2626.6	2457.1	2201.9	1875.5	1826.4	1465.5
12.5°	2995.8	3003.1	3011.5	3026.2	3002.1	2934.1	2774.1	2495.8	2129.7	2075.3	1624.5
15°	3163.2	3165.3	3196.7	3253.1	3273.0	3237.5	3092.1	2780.3	2380.8	2333.7	1807.5
17.5°	3213.4	3217.6	3270.9	3374.5	3479.1	3499.0	3389.1	3067.0	2627.6	2577.4	1985.4
20°	3319.0	3328.5	3368.2	3459.2	3591.0	3697.7	3654.8	3356.7	2874.5	2808.6	2167.4
22.5°	3651.7	3656.9	3643.3	3654.8	3722.8	3846.2	3872.4	3637.0	3127.6	3057.5	2364.0
25°	4223.9	4226.0	4130.8	4040.8	3989.6	4012.6	4070.1	3895.4	3378.7	3309.6	2547.1
27.5°	4818.0	4825.3	4711.3	4558.6	4375.5	4270.9	4254.2	4131.8	3631.8	3555.4	2728.0
30°	5377.6	5377.6	5257.3	5071.1	4826.4	4622.4	4502.1	4370.3	3902.7	3819.0	2913.2
32.5°	5880.8	5876.6	5722.8	5520.9	5279.3	5055.5	4802.3	4619.3	4204.0	4110.9	3126.6
35°	6296.0	6285.6	6110.9	5917.4	5659.0	5492.7	5210.3	4887.0	4530.3	4437.3	3346.2
37.5°	6609.9	6598.3	6438.3	6233.3	5993.7	5886.0	5649.6	5208.2	4874.5	4789.8	3590.0
40°	6780.4	6757.3	6646.5	6493.7	6292.9	6198.8	6100.4	5606.7	5279.3	5173.7	3877.6
42.5°	6830.6	6803.4	6730.1	6659.0	6537.7	6463.4	6569.1	6056.5	5723.9	5632.9	4206.1
45°	6682.0	6666.3	6660.1	6711.3	6733.3	6754.2	7014.7	6554.4	6214.5	6145.4	4619.3
47.5°	6324.3	6320.1	6375.5	6588.9	6821.2	7041.9	7499.0	7168.4	6850.4	6776.2	5196.7
50°	5663.2	5706.1	5860.9	6235.4	6699.8	7205.0	7951.9	8019.9	7879.7	7770.9	5949.8
52.5°	4629.7	4712.4	5059.6	5628.7	6296.0	7159.0	8161.1	8701.9	8845.2	8732.2	6489.6
55°	3632.9	3710.3	4019.9	4741.6	5631.8	6808.6	8170.5	8937.3	9250.0	9145.4	6854.6
57.5°	2706.1	2777.2	3058.6	3749.0	4728.0	6119.3	7946.7	9068.0	9730.2	9663.2	7431.0
60°	1768.8	1838.9	2093.1	2696.7	3667.4	5115.1	7395.4	9040.8	10383.9	10377.6	8139.1
62.5°	981.2	1036.6	1220.7	1691.4	2559.6	3961.3	6529.3	8767.8	11016.8	11056.5	8722.8
65°	502.1	537.7	649.6	929.9	1549.2	2808.6	5390.2	8142.3	11309.7	11410.1	8876.6
67.5°	328.5	340.0	367.2	483.3	829.5	1766.7	4056.5	7139.1	10897.5	11014.7	8360.9
70°	266.7	276.2	291.8	322.2	427.8	938.3	2664.2	5701.9	9105.7	9185.2	6658.0
72.5°	195.6	208.2	238.5	258.4	308.6	514.6	1386.0	3742.7	6253.2	6393.3	4184.1
75°	144.4	151.7	176.8	204.0	252.1	325.3	530.3	1967.6	3229.1	3147.5	1757.3
77.5°	86.8	92.1	113.0	130.8	179.9	202.9	185.1	727.0	982.2	923.6	424.7
80°	42.9	48.1	74.3	98.3	115.1	81.6	77.4	202.9	218.6	218.6	106.7
82.5°	14.6	18.8	39.7	64.9	56.5	31.4	36.6	52.3	58.6	61.7	31.4
85°	0.0	0.0	9.4	18.8	8.4	4.2	9.4	11.5	14.6	15.7	10.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	4.2	4.2
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°	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8	1041.8
2.5°	1069.0	1019.9	945.6	878.7	827.4	779.3	742.7	713.4	708.2	691.4	693.5
5°	1117.2	1028.2	891.2	785.6	711.3	661.1	619.2	587.9	574.3	560.7	550.2
7.5°	1191.4	1062.8	870.3	741.6	654.8	577.4	512.6	460.3	435.1	419.5	409.0
10°	1282.4	1110.9	871.3	715.5	586.8	468.6	379.7	322.2	295.0	286.6	285.6
12.5°	1391.2	1171.6	879.7	672.6	488.5	348.3	281.4	255.2	246.9	239.5	239.5
15°	1506.3	1239.5	879.7	594.1	372.4	272.0	243.7	227.0	216.5	212.3	210.3
17.5°	1627.6	1303.4	858.8	486.4	285.6	239.5	216.5	200.8	192.5	186.2	184.1
20°	1757.3	1364.0	806.5	372.4	244.8	214.4	192.5	176.8	168.4	162.1	162.1
22.5°	1889.1	1420.5	721.8	286.6	216.5	190.4	169.5	154.8	146.4	140.2	140.2
25°	2011.5	1458.2	613.0	236.4	195.6	169.5	150.6	136.0	126.6	122.4	120.3
27.5°	2125.5	1482.2	492.7	208.2	175.7	151.7	131.8	118.2	110.9	107.7	105.6
30°	2243.7	1488.5	376.6	189.3	159.0	133.9	115.1	104.6	98.3	94.1	94.1
32.5°	2358.8	1481.2	287.7	173.6	144.4	118.2	102.5	93.1	87.9	84.7	83.7
35°	2475.9	1447.7	233.3	160.0	129.7	103.6	91.0	83.7	80.5	76.4	76.4
37.5°	2603.6	1402.7	202.9	146.4	115.1	93.1	81.6	76.4	72.2	69.0	68.0
40°	2762.6	1350.4	186.2	134.9	101.5	83.7	73.2	68.0	64.9	61.7	60.7
42.5°	2950.8	1299.2	177.8	122.4	91.0	74.3	65.9	59.6	56.5	52.3	51.3
45°	3217.6	1287.7	168.4	108.8	81.6	66.9	57.5	51.3	47.1	43.9	42.9
47.5°	3646.5	1320.1	152.7	94.1	72.2	58.6	49.2	43.9	38.7	35.6	33.5
50°	4072.2	1311.7	137.0	81.6	63.8	50.2	41.8	36.6	31.4	28.2	27.2
52.5°	4304.4	1272.0	122.4	72.2	55.4	42.9	35.6	29.3	26.2	23.0	22.0
55°	4514.7	1256.3	107.7	62.8	47.1	37.7	29.3	24.1	22.0	18.8	17.8
57.5°	4926.8	1292.9	95.2	54.4	40.8	32.4	25.1	19.9	17.8	14.6	13.6
60°	5357.8	1297.1	81.6	47.1	35.6	27.2	19.9	15.7	13.6	10.5	9.4
62.5°	5582.7	1191.4	66.9	39.7	29.3	23.0	16.7	12.6	10.5	6.3	6.3
65°	5394.4	963.4	56.5	32.4	23.0	17.8	12.6	9.4	6.3	3.1	1.0
67.5°	4774.1	685.1	47.1	26.2	16.7	12.6	9.4	6.3	1.0	0.0	0.0
70°	3495.8	391.2	36.6	18.8	12.6	8.4	6.3	3.1	0.0	0.0	0.0
72.5°	2148.5	209.2	27.2	12.6	9.4	6.3	5.2	2.1	0.0	0.0	0.0
75°	814.9	100.4	16.7	8.4	7.3	5.2	3.1	1.0	0.0	0.0	0.0
77.5°	220.7	49.2	9.4	6.3	5.2	3.1	2.1	0.0	0.0	0.0	0.0
80°	57.5	23.0	6.3	4.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	10.5	3.1	3.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
85°	8.4	4.2	2.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.0	1.0	1.0	1.0	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)