

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: P638274

Luminaire Tested: GWS-SA4E-740-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638274  
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-SA4E-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**

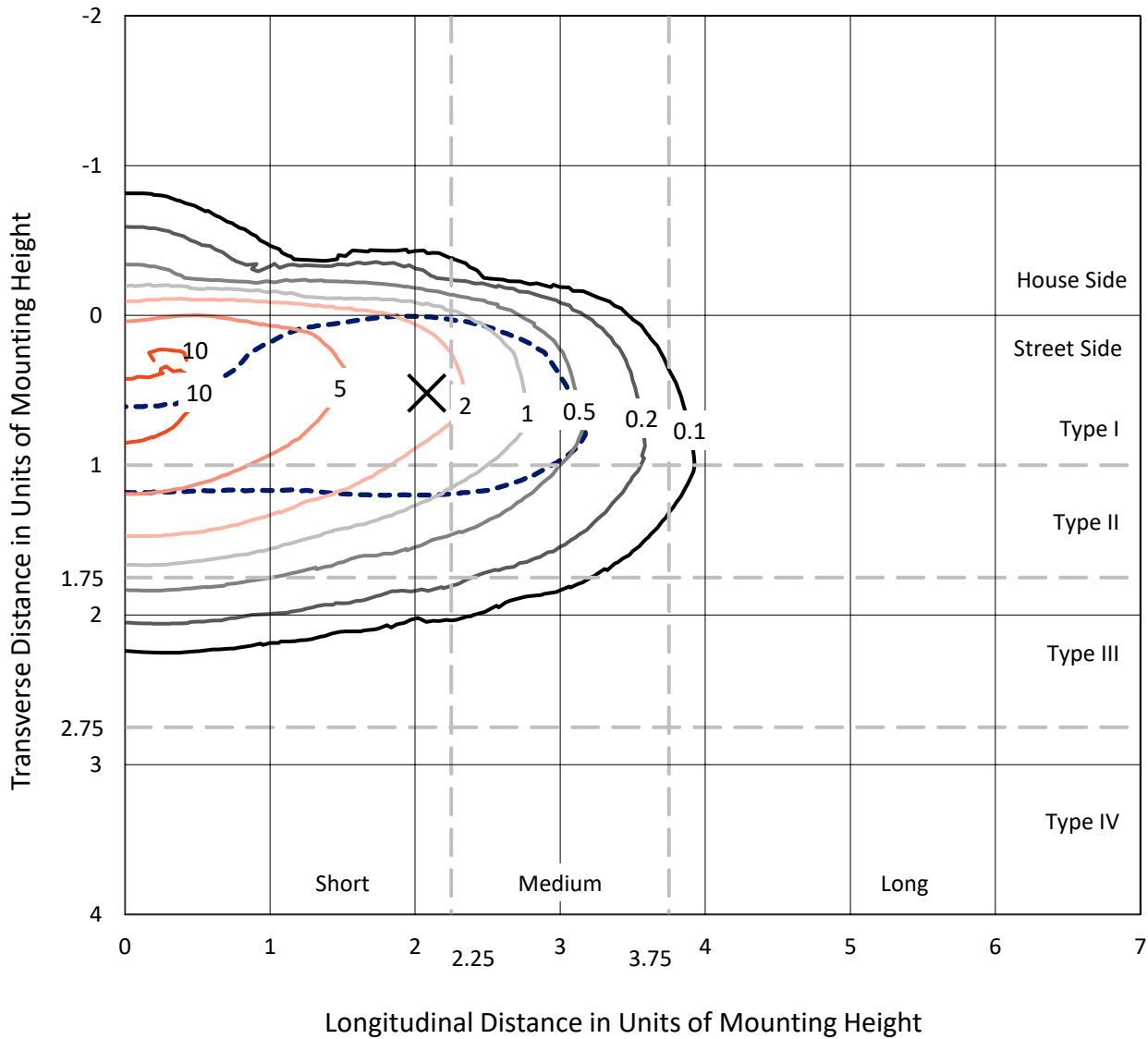
Lumens per Lamp: N/A  
Luminaire Lumens: 24680.4 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P638274  
 CATALOG NUMBER: GWS-SA4E-740-U-T2R-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

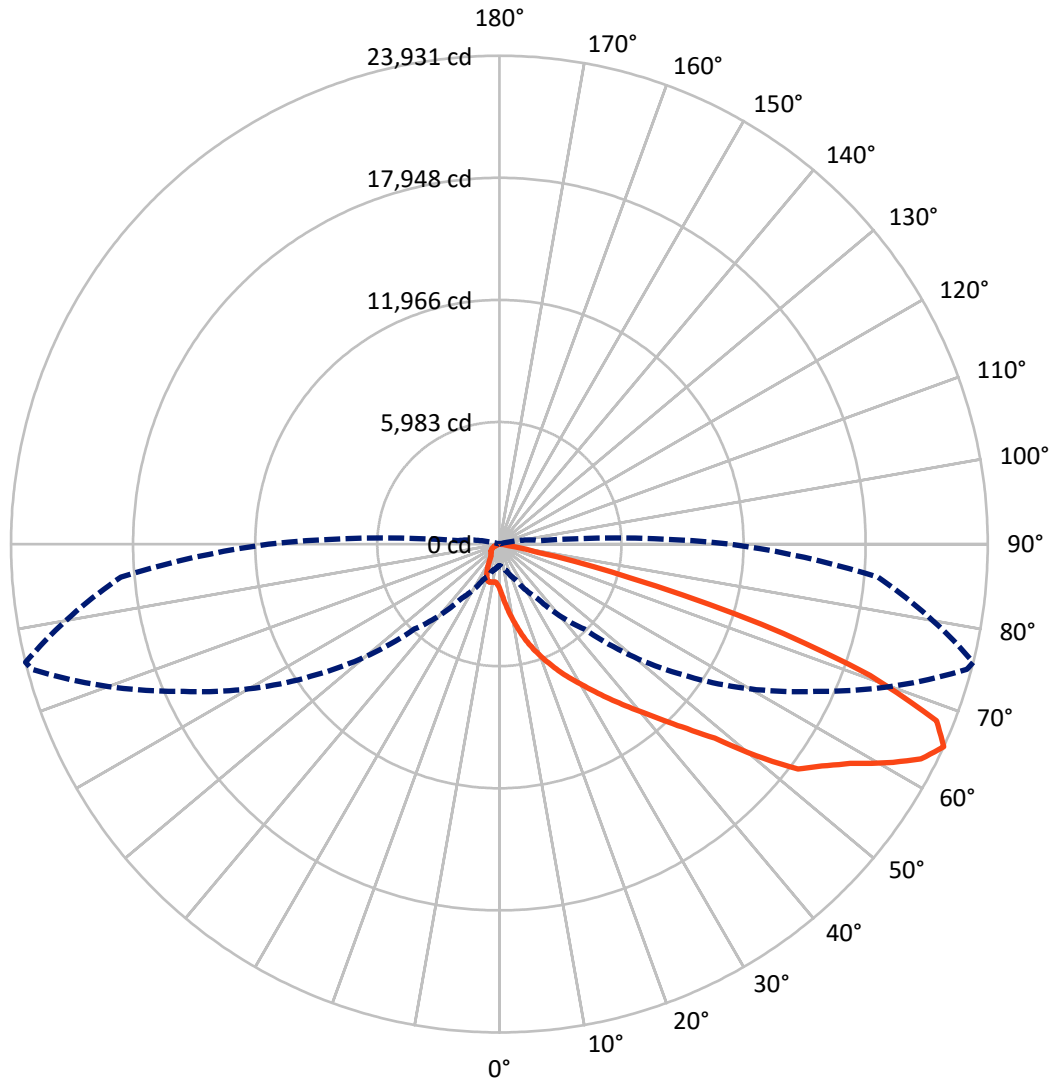
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P638274  
CATALOG NUMBER: GWS-SA4E-740-U-T2R-W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638274

CATALOG NUMBER: GWS-SA4E-740-U-T2R-W-HSS

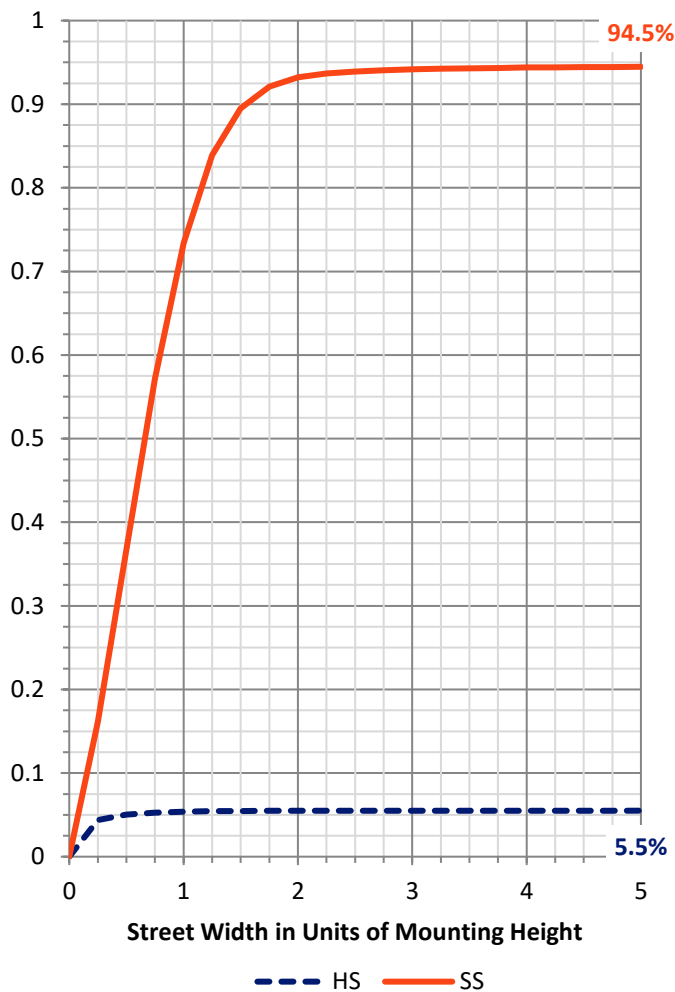
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1364.7	0.0	1364.7
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	23315.7	0.0	23315.7
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	24680.4	0.0	24680.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.8	1.1
10°-20°	1008.7	4.1
20°-30°	2057.9	8.3
30°-40°	3660.0	14.8
40°-50°	5410.3	21.9
50°-60°	6194.4	25.1
60°-70°	4726.1	19.1
70°-80°	1323.9	5.4
80°-90°	33.3	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°	24680.4	100.0
0°-180°	24680.4	100.0

**Coefficient of Utilization**

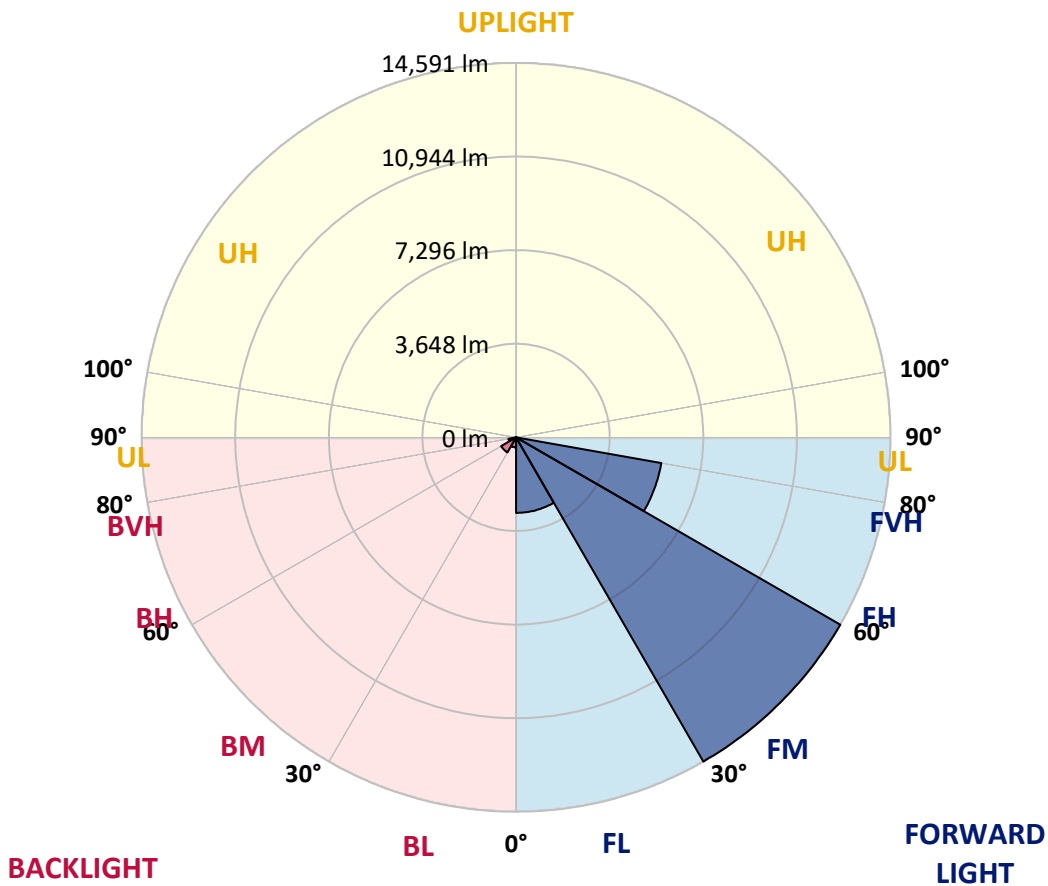


REPORT NUMBER: P638274  
 CATALOG NUMBER: GWS-SA4E-740-U-T2R-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.0	11.9			
FM (30°-60°)	14591.5	59.1			
FH (60°-80°)	5749.9	23.3			G3/7500
FVH (80°-90°)	31.4	0.1			G1/100
BL (0°-30°)	389.4	1.6	B1/500		
BM (30°-60°)	673.3	2.7	B1/1000		
BH (60°-80°)	300.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	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-G3**  
 Type II Short





REPORT NUMBER: P638274

CATALOG NUMBER: GWS-SA4E-740-U-T2R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1
2.5°	3367.6	3418.1	3378.6	3312.8	3185.5	3062.7	2904.7	2687.5	2514.2	2492.3	2329.9
5°	4547.9	4543.5	4458.0	4372.4	4238.6	4028.0	3709.9	3306.2	2917.9	2885.0	2520.8
7.5°	5250.0	5256.6	5208.3	5142.5	5010.8	4793.7	4462.4	3975.3	3407.1	3341.3	2781.9
10°	5840.1	5837.9	5802.8	5772.1	5653.7	5508.9	5153.5	4618.1	3933.6	3830.5	3073.6
12.5°	6283.3	6298.7	6316.2	6346.9	6296.5	6153.9	5818.2	5234.6	4466.8	4352.7	3407.1
15°	6634.3	6638.7	6704.5	6823.0	6864.7	6790.1	6485.1	5831.4	4993.3	4894.6	3791.0
17.5°	6739.6	6748.4	6860.3	7077.5	7296.9	7338.6	7108.2	6432.5	5511.1	5405.7	4164.0
20°	6961.2	6981.0	7064.3	7255.2	7531.6	7755.4	7665.5	7040.2	6028.8	5890.6	4545.7
22.5°	7658.9	7669.8	7641.3	7665.5	7808.1	8066.9	8121.8	7628.2	6559.7	6412.7	4958.2
25°	8858.9	8863.3	8663.7	8475.0	8367.5	8415.8	8536.4	8170.1	7086.3	6941.5	5342.1
27.5°	10105.1	10120.4	9881.3	9561.0	9177.0	8957.7	8922.6	8665.9	7617.2	7457.0	5721.7
30°	11278.8	11278.8	11026.5	10636.0	10122.6	9694.8	9442.5	9166.1	8185.4	8009.9	6110.0
32.5°	12334.1	12325.3	12002.8	11579.4	11072.6	10603.1	10072.2	9688.2	8817.2	8622.0	6557.5
35°	13205.0	13183.1	12816.7	12410.8	11869.0	11520.1	10927.8	10249.9	9501.7	9306.5	7018.3
37.5°	13863.2	13839.1	13503.4	13073.4	12571.0	12345.0	11849.2	10923.4	10223.5	10045.8	7529.4
40°	14220.8	14172.5	13940.0	13619.7	13198.4	13001.0	12794.8	11759.3	11072.6	10851.0	8132.8
42.5°	14326.1	14269.1	14115.5	13966.3	13711.8	13556.1	13777.6	12702.6	12005.0	11814.1	8821.6
45°	14014.6	13981.7	13968.5	14076.0	14122.1	14166.0	14712.2	13746.9	13033.9	12889.1	9688.2
47.5°	13264.3	13255.5	13371.8	13819.3	14306.4	14769.3	15728.0	15034.7	14367.8	14212.0	10899.3
50°	11877.7	11967.7	12292.4	13077.8	14051.9	15111.5	16678.0	16820.6	16526.6	16298.4	12478.9
52.5°	9710.2	9883.5	10611.9	11805.3	13205.0	15015.0	17116.7	18251.0	18551.5	18314.6	13610.9
55°	7619.4	7781.7	8431.1	9944.9	11811.9	14280.0	17136.5	18744.6	19400.6	19181.2	14376.6
57.5°	5675.6	5824.8	6414.9	7862.9	9916.4	12834.3	16667.0	19018.8	20407.6	20267.2	15585.4
60°	3709.9	3856.9	4390.0	5655.9	7691.8	10728.1	15510.8	18961.8	21778.8	21765.6	17070.7
62.5°	2057.9	2174.1	2560.3	3547.5	5368.5	8308.3	13694.3	18389.2	23106.1	23189.4	18294.9
65°	1053.1	1127.7	1362.4	1950.4	3249.2	5890.6	11305.1	17077.2	23720.4	23931.0	18617.4
67.5°	688.9	713.0	770.1	1013.6	1739.8	3705.5	8507.9	14973.3	22856.0	23101.7	17535.8
70°	559.4	579.2	612.1	675.7	897.3	1967.9	5587.8	11958.9	19097.8	19264.6	13964.1
72.5°	410.3	436.6	500.2	541.9	647.2	1079.4	2906.9	7849.7	13115.1	13409.1	8775.6
75°	302.8	318.1	370.8	427.8	528.7	682.3	1112.3	4126.7	6772.5	6601.4	3685.7
77.5°	182.1	193.1	236.9	274.2	377.3	425.6	388.3	1524.8	2060.1	1937.2	890.7
80°	89.9	100.9	155.8	206.2	241.3	171.1	162.3	425.6	458.5	458.5	223.8
82.5°	30.7	39.5	83.4	136.0	118.5	65.8	76.8	109.7	122.9	129.4	65.8
85°	0.0	0.0	19.7	39.5	17.6	8.8	19.7	24.1	30.7	32.9	21.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.8	8.8
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: P638274  
 CATALOG NUMBER: GWS-SA4E-740-U-T2R-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1	2185.1
2.5°	2242.2	2139.0	1983.3	1842.9	1735.4	1634.4	1557.7	1496.2	1485.3	1450.2	1454.5
5°	2343.1	2156.6	1869.2	1647.6	1491.8	1386.5	1298.8	1233.0	1204.4	1175.9	1154.0
7.5°	2498.8	2229.0	1825.3	1555.5	1373.4	1211.0	1075.0	965.3	912.7	879.8	857.8
10°	2689.7	2329.9	1827.5	1500.6	1230.8	982.9	796.4	675.7	618.7	601.1	598.9
12.5°	2917.9	2457.2	1845.1	1410.7	1024.5	730.6	590.2	535.3	517.8	502.4	502.4
15°	3159.2	2599.8	1845.1	1246.1	781.0	570.4	511.2	476.1	454.1	445.4	441.0
17.5°	3413.7	2733.6	1801.2	1020.2	598.9	502.4	454.1	421.2	403.7	390.5	386.1
20°	3685.7	2860.8	1691.5	781.0	513.4	449.7	403.7	370.8	353.2	340.1	340.1
22.5°	3962.2	2979.3	1513.8	601.1	454.1	399.3	355.4	324.7	307.1	294.0	294.0
25°	4218.9	3058.3	1285.6	495.8	410.3	355.4	315.9	285.2	265.5	256.7	252.3
27.5°	4458.0	3108.7	1033.3	436.6	368.6	318.1	276.4	247.9	232.6	226.0	221.6
30°	4705.9	3121.9	789.8	397.1	333.5	280.8	241.3	219.4	206.2	197.5	197.5
32.5°	4947.2	3106.5	603.3	364.2	302.8	247.9	215.0	195.3	184.3	177.7	175.5
35°	5192.9	3036.3	489.2	335.7	272.0	217.2	190.9	175.5	168.9	160.2	160.2
37.5°	5460.6	2942.0	425.6	307.1	241.3	195.3	171.1	160.2	151.4	144.8	142.6
40°	5794.1	2832.3	390.5	283.0	212.8	175.5	153.6	142.6	136.0	129.4	127.2
42.5°	6189.0	2724.8	373.0	256.7	190.9	155.8	138.2	125.1	118.5	109.7	107.5
45°	6748.4	2700.7	353.2	228.2	171.1	140.4	120.7	107.5	98.7	92.1	89.9
47.5°	7647.9	2768.7	320.3	197.5	151.4	122.9	103.1	92.1	81.2	74.6	70.2
50°	8540.8	2751.1	287.4	171.1	133.8	105.3	87.8	76.8	65.8	59.2	57.0
52.5°	9027.9	2667.8	256.7	151.4	116.3	89.9	74.6	61.4	54.8	48.3	46.1
55°	9468.8	2634.9	226.0	131.6	98.7	79.0	61.4	50.5	46.1	39.5	37.3
57.5°	10333.2	2711.6	199.6	114.1	85.6	68.0	52.7	41.7	37.3	30.7	28.5
60°	11237.1	2720.4	171.1	98.7	74.6	57.0	41.7	32.9	28.5	21.9	19.7
62.5°	11708.8	2498.8	140.4	83.4	61.4	48.3	35.1	26.3	21.9	13.2	13.2
65°	11313.9	2020.6	118.5	68.0	48.3	37.3	26.3	19.7	13.2	6.6	2.2
67.5°	10012.9	1437.0	98.7	54.8	35.1	26.3	19.7	13.2	2.2	0.0	0.0
70°	7332.0	820.5	76.8	39.5	26.3	17.6	13.2	6.6	0.0	0.0	0.0
72.5°	4506.3	438.8	57.0	26.3	19.7	13.2	11.0	4.4	0.0	0.0	0.0
75°	1709.0	210.6	35.1	17.6	15.4	11.0	6.6	2.2	0.0	0.0	0.0
77.5°	462.9	103.1	19.7	13.2	11.0	6.6	4.4	0.0	0.0	0.0	0.0
80°	120.7	48.3	13.2	8.8	6.6	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	41.7	21.9	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	17.6	8.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	2.2	2.2	2.2	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)