

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: P639190

Luminaire Tested: GWS-SA5B-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

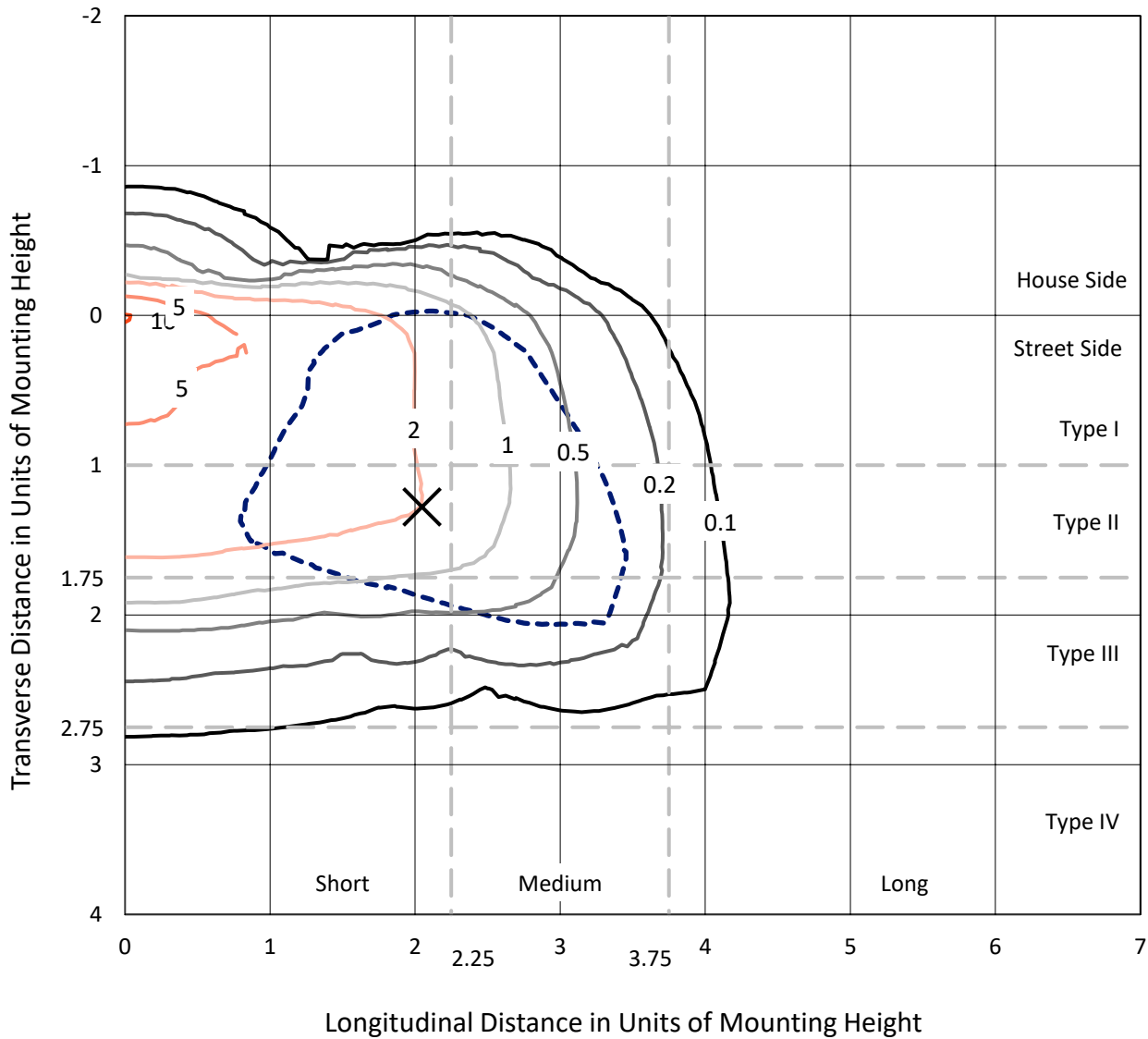
Lumens per Lamp: N/A  
Luminaire Lumens: 14183.7 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

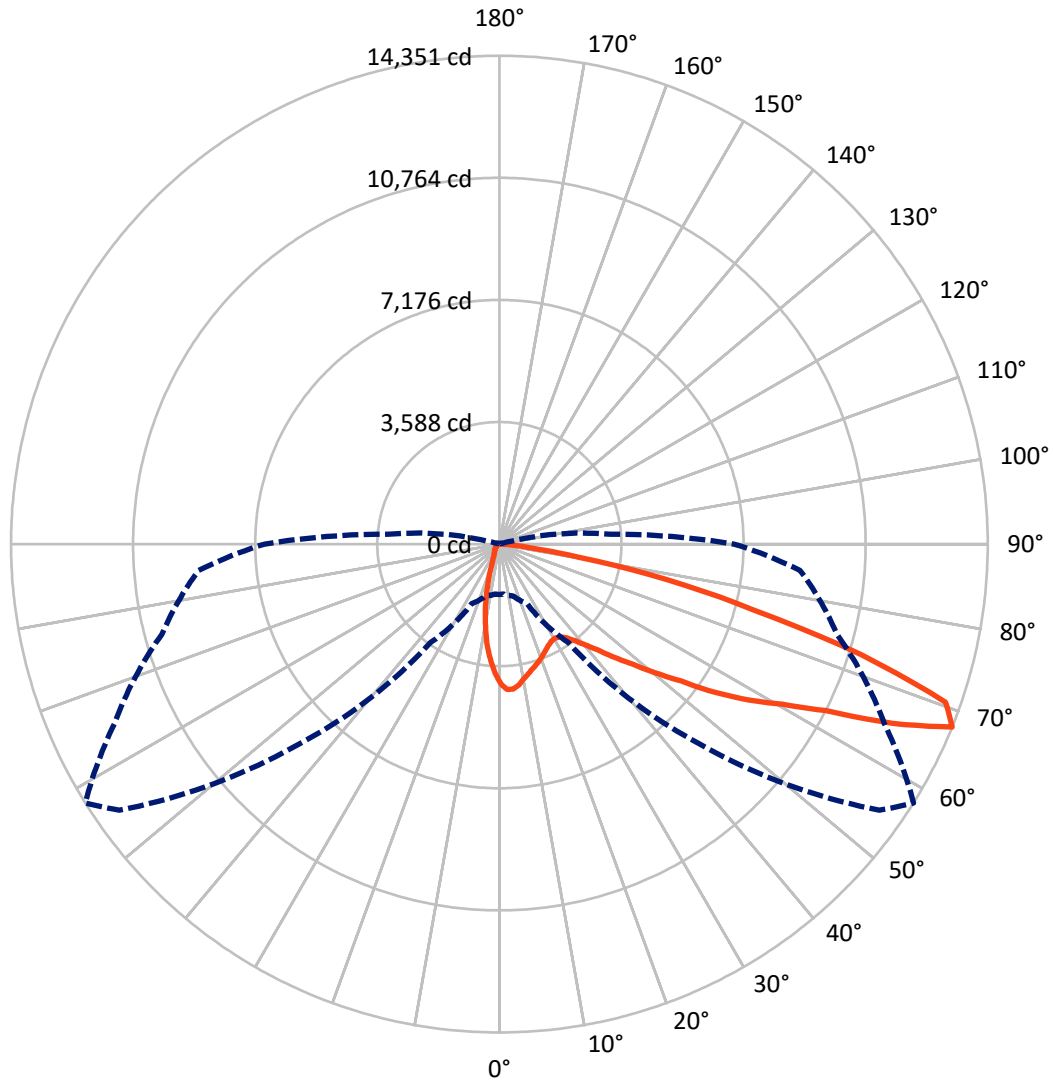
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P639190  
CATALOG NUMBER: GWS-SA5B-735-U-SL3-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA5B-735-U-SL3-W-HSS

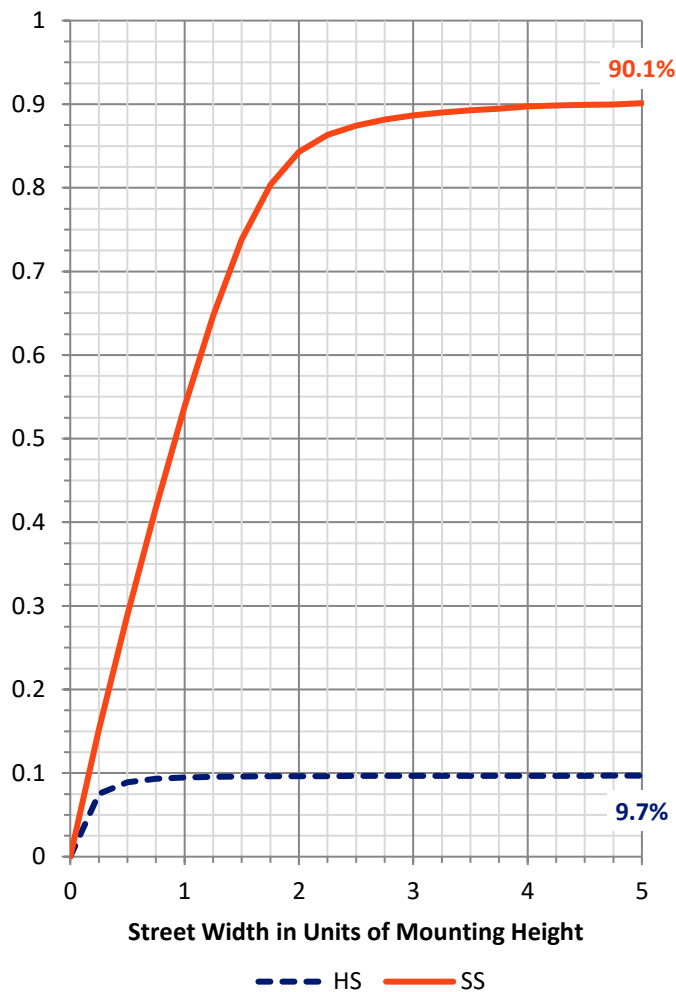
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1385.7	0.0	1385.7
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	12798.0	0.0	12798.0
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	14183.7	0.0	14183.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	332.5	2.3
10°-20°	692.0	4.9
20°-30°	933.3	6.6
30°-40°	1311.4	9.2
40°-50°	2025.4	14.3
50°-60°	3238.9	22.8
60°-70°	3835.1	27.0
70°-80°	1696.5	12.0
80°-90°	118.6	0.8
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°	14183.7	100.0
0°-180°	14183.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639190

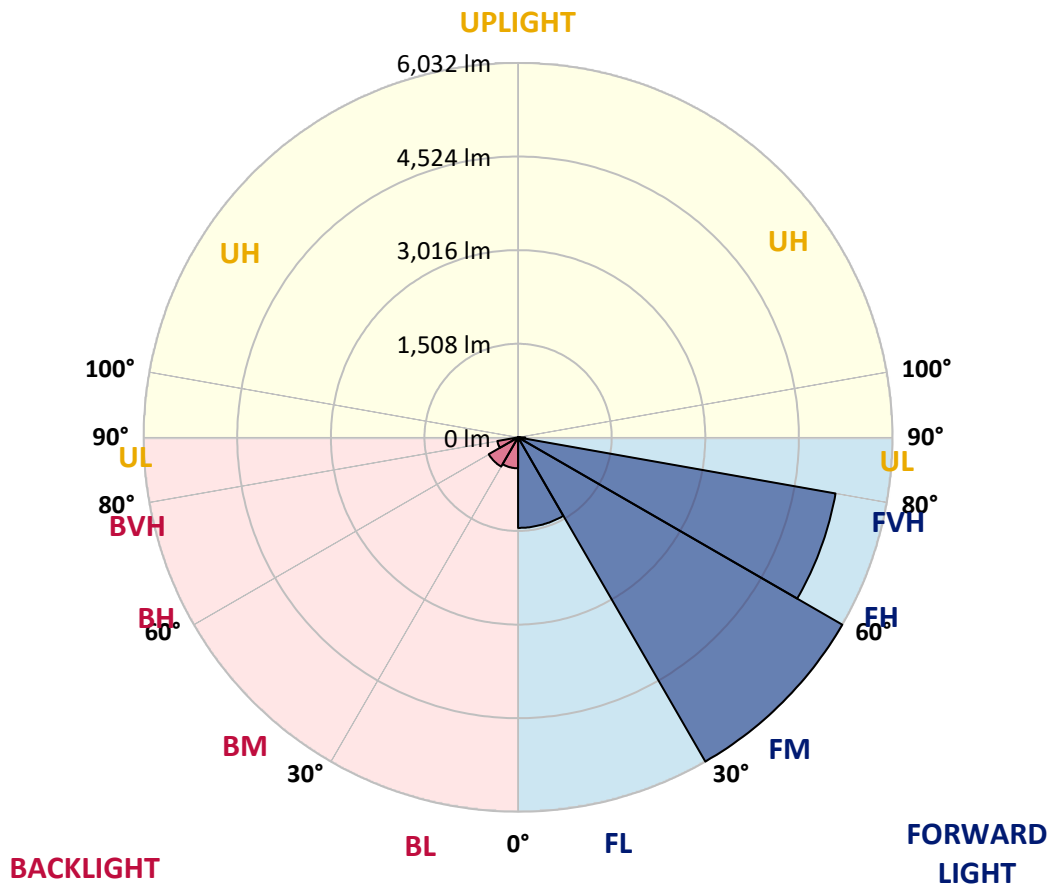
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1459.1	10.3			
FM (30°-60°)	6032.0	42.5			
FH (60°-80°)	5193.3	36.6			G3/7500
FVH (80°-90°)	113.6	0.8			G2/225
BL (0°-30°)	498.6	3.5	B1/500		
BM (30°-60°)	543.7	3.8	B1/1000		
BH (60°-80°)	338.3	2.4	B1/500		G1/500
BVH (80°-90°)	5.1	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 III Short





REPORT NUMBER: P639190

CATALOG NUMBER: GWS-SA5B-735-U-SL3-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2
2.5°	4303.4	4310.9	4321.0	4333.5	4331.0	4319.7	4305.9	4274.5	4254.4	4191.7	4115.1
5°	4165.3	4164.1	4189.2	4213.0	4255.7	4278.3	4309.7	4280.8	4270.8	4195.4	4071.2
7.5°	3895.4	3909.2	3938.1	3975.8	4037.3	4103.8	4179.1	4170.3	4200.5	4150.2	3995.8
10°	3630.5	3623.0	3668.2	3724.7	3818.8	3904.2	4013.4	4012.2	4091.2	4086.2	3910.5
12.5°	3398.3	3397.0	3432.2	3496.2	3606.7	3725.9	3874.1	3877.8	3975.8	4015.9	3837.7
15°	3202.4	3205.0	3238.8	3305.4	3419.6	3565.2	3737.2	3768.6	3879.1	3960.7	3766.1
17.5°	3063.1	3064.4	3084.4	3142.2	3253.9	3409.6	3616.7	3659.4	3801.3	3919.3	3708.4
20°	2999.1	2994.1	2997.8	3026.7	3113.3	3255.2	3493.7	3548.9	3729.7	3890.4	3655.6
22.5°	3007.9	3000.3	2982.8	2979.0	3017.9	3125.9	3363.1	3430.9	3651.9	3872.8	3607.9
25°	3085.7	3069.4	3044.3	3006.6	2991.5	3045.5	3248.9	3319.2	3579.1	3874.1	3571.5
27.5°	3205.0	3187.4	3156.0	3105.8	3046.8	3024.2	3171.1	3237.6	3527.6	3902.9	3553.9
30°	3356.9	3343.0	3312.9	3252.7	3173.6	3080.7	3154.7	3210.0	3502.5	3961.9	3561.5
32.5°	3536.4	3526.3	3501.2	3446.0	3355.6	3213.7	3210.0	3252.7	3522.6	4047.3	3590.4
35°	3709.6	3713.4	3714.6	3684.5	3587.8	3415.9	3361.9	3376.9	3605.4	4175.4	3655.6
37.5°	3896.7	3887.9	3933.1	3954.4	3861.5	3678.2	3596.6	3597.9	3763.6	4364.9	3778.7
40°	4038.5	4041.0	4138.9	4226.8	4187.9	4010.9	3894.2	3892.9	4007.1	4624.8	3977.0
42.5°	4171.6	4187.9	4332.3	4482.9	4536.9	4380.0	4295.9	4264.5	4348.6	4976.3	4274.5
45°	4313.4	4337.3	4539.4	4754.1	4895.9	4803.0	4736.5	4749.1	4759.1	5385.5	4675.0
47.5°	4479.2	4494.2	4744.0	5046.6	5311.5	5287.6	5291.4	5276.3	5271.3	5901.5	5204.8
50°	4680.0	4715.2	5002.6	5364.2	5725.7	5883.9	5936.6	5942.9	5861.3	6463.9	5753.4
52.5°	5106.8	5149.5	5395.6	5711.9	6177.7	6510.3	6725.0	6682.3	6556.8	7008.7	6354.7
55°	5610.2	5642.9	5880.1	6207.8	6730.0	7197.0	7706.7	7689.1	7381.6	7582.4	6849.3
57.5°	5657.9	5694.3	6062.2	6564.3	7439.3	8045.7	8581.7	8638.2	8187.5	7989.2	7291.2
60°	5121.9	5196.0	5698.1	6373.5	7710.5	9186.8	9540.8	9552.1	8778.8	8402.2	7831.0
62.5°	4105.1	4140.2	4646.1	5527.4	7292.4	9852.1	11005.8	10767.3	9538.3	9041.2	8685.9
65°	2151.7	2294.8	2735.4	3710.9	5914.0	9619.9	12768.3	12703.1	10904.1	9956.3	9351.2
67.5°	1476.3	1475.1	1579.3	1934.5	3526.3	8282.9	13633.3	14351.4	12483.4	10270.2	8869.2
70°	1123.6	1127.3	1220.2	1451.2	1826.6	5513.6	12684.2	13912.0	12777.1	9324.9	7173.2
72.5°	745.7	753.2	907.6	1172.5	1458.7	2702.8	9857.2	11131.3	10751.0	7489.5	5049.1
75°	445.7	451.9	562.4	852.4	1296.8	1512.7	6263.0	7695.4	7400.4	5162.1	2706.6
77.5°	183.3	188.3	288.7	531.0	949.1	1175.0	3463.6	5035.3	4432.7	2052.5	739.4
80°	76.6	79.1	139.3	371.6	684.2	736.9	1604.4	2366.4	1816.5	441.9	226.0
82.5°	27.6	28.9	51.5	204.6	425.6	554.9	809.7	935.2	512.2	144.4	121.8
85°	1.3	1.3	12.6	69.0	161.9	156.9	463.2	448.2	169.5	60.3	72.8
87.5°	0.0	0.0	1.3	1.3	2.5	6.3	43.9	77.8	36.4	15.1	31.4
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: P639190

CATALOG NUMBER: GWS-SA5B-735-U-SL3-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2	4091.2
2.5°	4064.9	3998.3	3925.5	3857.7	3749.8	3685.8	3606.7	3571.5	3521.3	3508.8	3516.3
5°	3982.0	3867.8	3693.3	3535.1	3330.5	3166.0	3000.3	2930.0	2839.6	2779.4	2754.3
7.5°	3865.3	3715.9	3443.5	3156.0	2874.8	2574.8	2346.3	2195.6	2058.8	1983.5	1968.4
10°	3747.3	3552.7	3162.3	2750.5	2314.9	1955.9	1647.0	1418.6	1232.8	1148.7	1083.4
12.5°	3625.5	3383.2	2876.0	2338.8	1832.8	1343.2	961.6	739.4	606.3	553.6	562.4
15°	3513.8	3220.0	2592.3	1927.0	1290.5	811.0	531.0	448.2	416.8	406.7	405.5
17.5°	3407.1	3065.6	2309.9	1526.5	851.1	497.1	406.7	386.7	377.9	372.8	372.8
20°	3310.4	2917.5	2033.7	1149.9	549.9	394.2	367.8	357.8	350.2	346.5	346.5
22.5°	3220.0	2774.4	1763.8	813.5	405.5	354.0	337.7	327.7	318.9	313.8	313.8
25°	3138.4	2645.1	1506.4	559.9	349.0	323.9	306.3	295.0	279.9	271.2	271.2
27.5°	3079.4	2529.6	1259.1	408.0	315.1	291.2	271.2	256.1	239.8	229.7	227.2
30°	3044.3	2431.6	1009.3	335.2	283.7	259.9	237.3	218.4	199.6	189.6	188.3
32.5°	3024.2	2341.3	780.8	292.5	257.4	229.7	204.6	184.5	165.7	154.4	153.2
35°	3031.7	2271.0	585.0	263.6	232.2	203.4	175.8	155.7	139.3	129.3	126.8
37.5°	3097.0	2239.6	439.4	241.0	210.9	180.8	151.9	133.1	118.0	110.5	109.2
40°	3223.8	2245.9	345.2	223.5	193.3	158.2	130.6	113.0	101.7	95.4	94.2
42.5°	3420.9	2298.6	285.0	208.4	174.5	138.1	113.0	99.2	87.9	81.6	80.3
45°	3714.6	2407.8	248.6	190.8	154.4	119.3	97.9	85.4	75.3	67.8	66.5
47.5°	4140.2	2597.4	224.7	174.5	136.8	102.9	84.1	71.6	62.8	56.5	55.2
50°	4593.4	2824.6	204.6	158.2	121.8	89.1	71.6	59.0	51.5	45.2	43.9
52.5°	5076.7	3069.4	189.6	143.1	108.0	76.6	60.3	49.0	41.4	35.2	33.9
55°	5541.2	3315.4	172.0	133.1	91.6	65.3	50.2	40.2	32.6	27.6	27.6
57.5°	5993.1	3541.4	153.2	116.7	75.3	55.2	41.4	32.6	26.4	22.6	21.3
60°	6532.9	3854.0	131.8	99.2	62.8	46.4	33.9	26.4	21.3	17.6	17.6
62.5°	7335.1	4179.1	113.0	82.9	52.7	38.9	27.6	21.3	17.6	15.1	13.8
65°	7597.5	4003.4	95.4	67.8	42.7	31.4	22.6	18.8	15.1	13.8	12.6
67.5°	6897.0	3281.5	79.1	55.2	35.2	26.4	20.1	16.3	13.8	12.6	11.3
70°	5381.8	2328.7	61.5	41.4	28.9	21.3	17.6	15.1	12.6	11.3	11.3
72.5°	3660.7	1377.1	49.0	31.4	23.9	18.8	15.1	13.8	12.6	11.3	10.0
75°	1802.7	489.6	37.7	23.9	18.8	16.3	13.8	12.6	11.3	10.0	10.0
77.5°	485.8	135.6	28.9	18.8	15.1	12.6	12.6	12.6	11.3	8.8	8.8
80°	164.5	56.5	21.3	13.8	12.6	10.0	8.8	11.3	10.0	8.8	7.5
82.5°	90.4	27.6	15.1	11.3	8.8	7.5	7.5	7.5	7.5	6.3	6.3
85°	57.7	15.1	10.0	8.8	8.8	6.3	5.0	5.0	3.8	3.8	3.8
87.5°	26.4	8.8	8.8	7.5	7.5	6.3	3.8	2.5	1.3	1.3	1.3
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)