

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: P635915

Luminaire Tested: GWS-SA3E-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635915  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-760-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

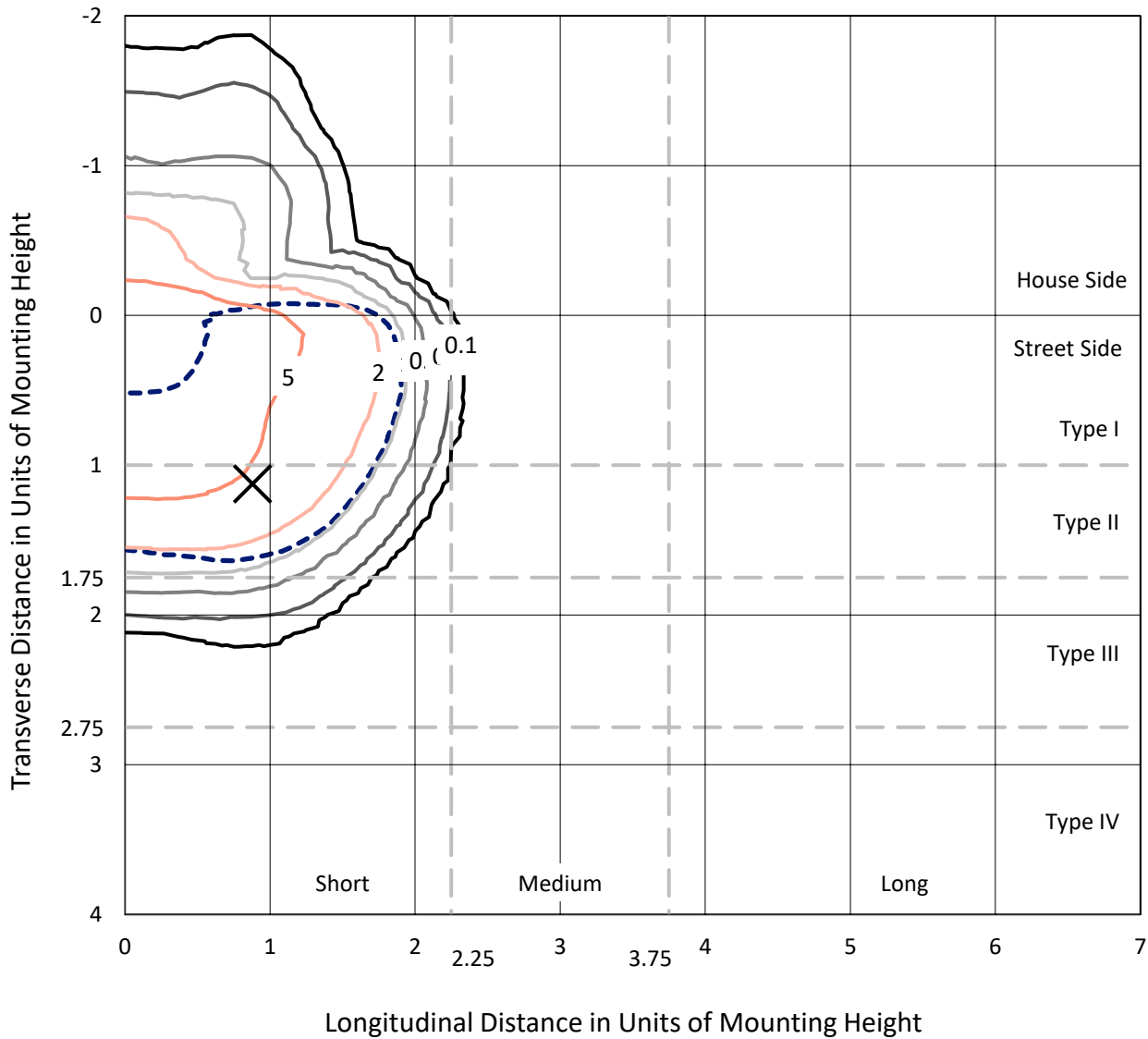
Lumens per Lamp: N/A  
Luminaire Lumens: 13915.6 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

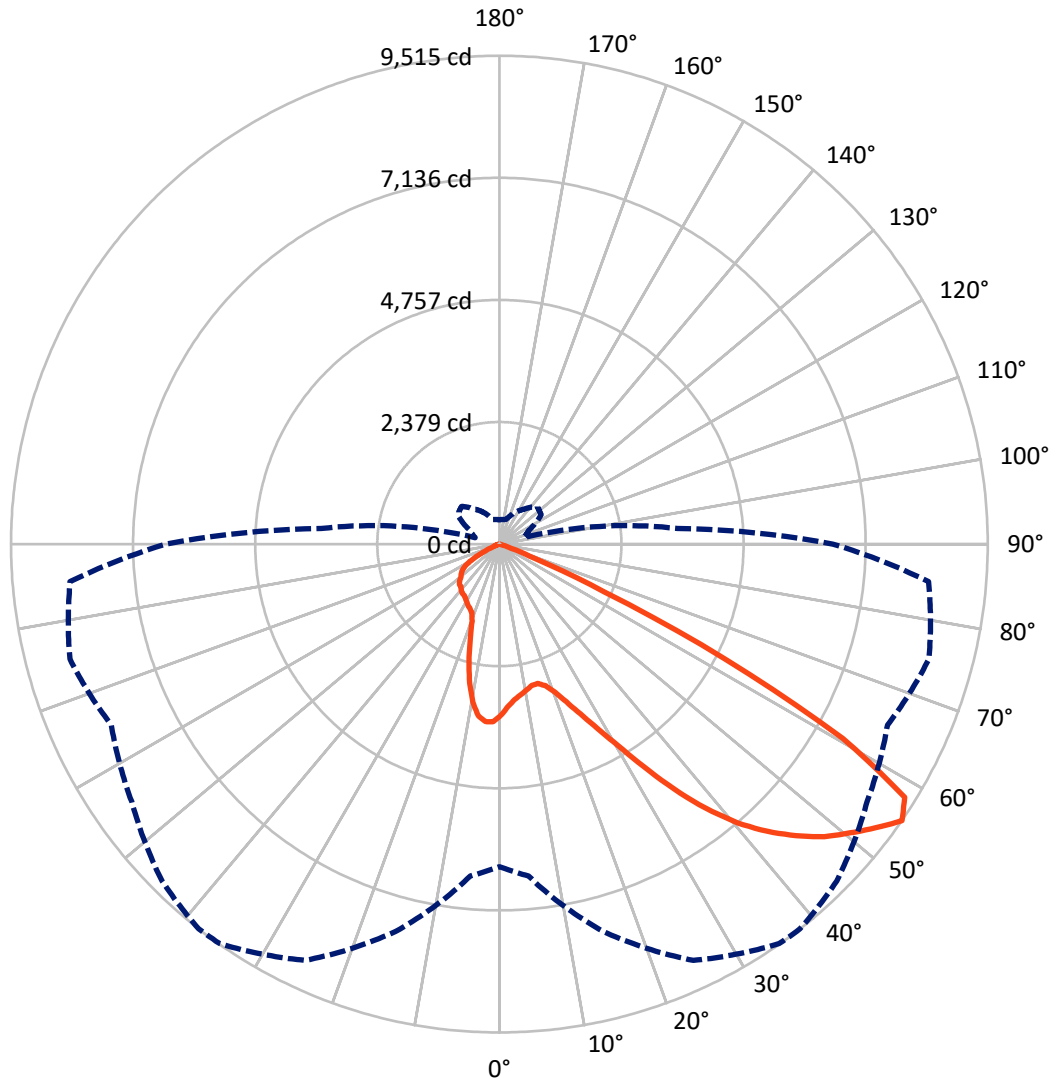
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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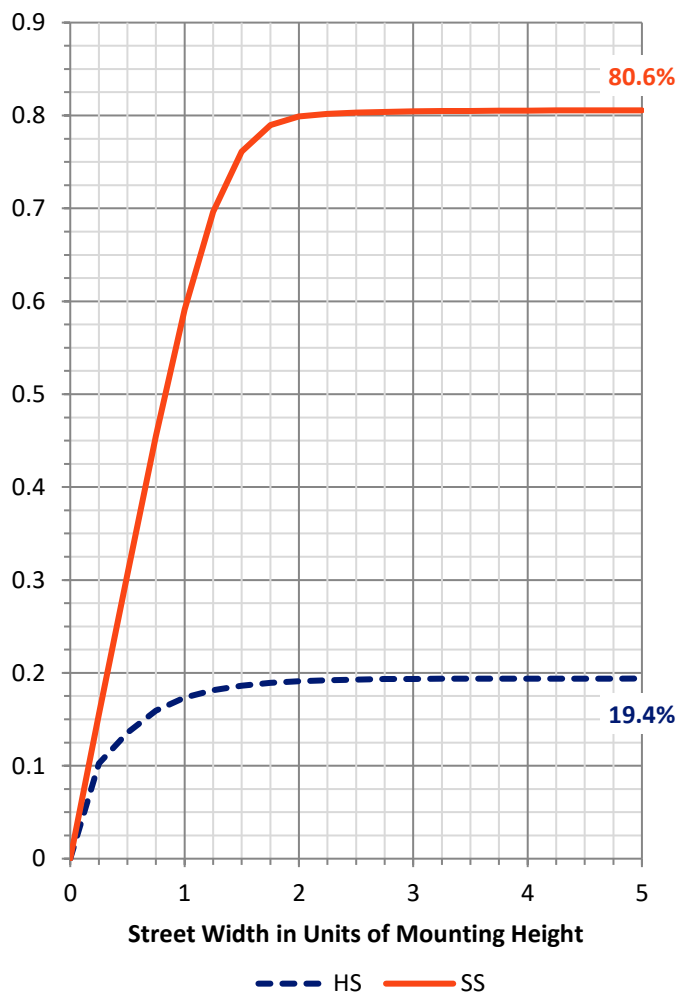
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2711.2	0.0	2711.2
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	11204.4	0.0	11204.4
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	13915.6	0.0	13915.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.6	2.2
10°-20°	830.7	6.0
20°-30°	1425.5	10.2
30°-40°	2364.3	17.0
40°-50°	3475.6	25.0
50°-60°	4061.3	29.2
60°-70°	1376.6	9.9
70°-80°	70.4	0.5
80°-90°	2.8	0.0
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°	13915.6	100.0
0°-180°	13915.6	100.0

**Coefficient of Utilization**



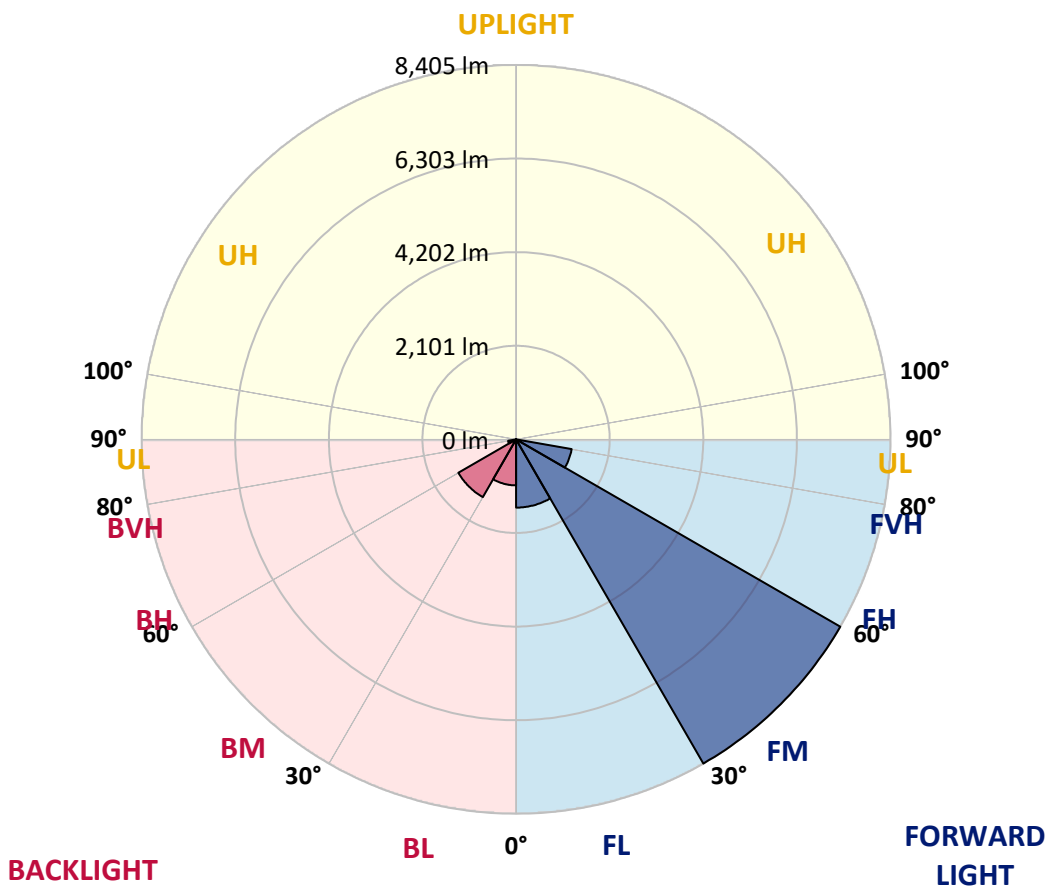
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CATALOG NUMBER: GWS-SA3E-760-U-T3R-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1531.8	11.0			
FM (30°-60°)	8404.6	60.4			
FH (60°-80°)	1266.5	9.1			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	1032.9	7.4	B3/2500		
BM (30°-60°)	1496.5	10.8	B2/2500		
BH (60°-80°)	180.5	1.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1
2.5°	3108.0	3101.7	3114.4	3139.8	3163.7	3171.6	3195.5	3228.9	3249.6	3298.9	3338.7
5°	2968.0	2964.9	2977.6	2999.9	3031.7	3042.8	3079.4	3135.1	3190.7	3276.6	3360.9
7.5°	2840.8	2839.2	2858.3	2907.6	2953.7	2968.0	3012.6	3081.0	3155.7	3287.8	3411.8
10°	2673.8	2675.4	2712.0	2781.9	2866.3	2894.9	2966.5	3065.1	3162.1	3332.3	3504.1
12.5°	2619.7	2622.9	2642.0	2696.1	2788.3	2824.9	2925.1	3074.6	3198.7	3395.9	3623.4
15°	2751.7	2751.7	2735.8	2742.2	2783.5	2816.9	2921.9	3106.4	3260.7	3472.3	3741.1
17.5°	3007.8	2998.3	2958.5	2904.4	2890.1	2901.2	2985.5	3174.8	3348.2	3561.3	3874.7
20°	3354.6	3357.7	3279.8	3166.9	3076.2	3074.6	3125.5	3295.7	3473.9	3667.9	4019.4
22.5°	3774.5	3761.8	3658.4	3504.1	3346.6	3333.9	3354.6	3480.2	3655.2	3836.5	4197.6
25°	4261.2	4254.8	4108.5	3901.7	3693.4	3663.1	3663.1	3787.2	3914.5	4076.7	4410.7
27.5°	4770.2	4770.2	4628.6	4390.0	4113.3	4059.2	4051.2	4197.6	4281.9	4313.7	4590.5
30°	5293.5	5287.1	5147.2	4902.2	4606.4	4550.7	4528.4	4636.6	4697.0	4601.6	4814.7
32.5°	5824.8	5835.9	5694.3	5466.9	5202.8	5166.3	5097.9	5097.9	5147.2	5013.6	5167.8
35°	6395.8	6392.6	6281.3	6127.0	5901.1	5859.8	5746.8	5570.3	5645.0	5586.2	5656.2
37.5°	6900.0	6923.9	6869.8	6755.3	6572.3	6531.0	6344.9	6025.2	6082.4	6174.7	6236.7
40°	7412.2	7431.3	7485.3	7448.8	7218.1	7141.8	6810.9	6286.0	6349.7	6666.2	6844.3
42.5°	7914.8	7924.3	8034.1	8094.5	7786.0	7652.4	7164.0	6445.1	6511.9	7051.1	7362.9
45°	8234.5	8255.2	8436.5	8621.0	8287.0	8104.1	7471.0	6648.7	6677.3	7318.3	7746.2
47.5°	8221.8	8269.5	8609.9	8945.5	8718.0	8520.8	7840.0	6974.8	6927.0	7569.6	7999.1
50°	7965.7	8023.0	8511.3	9044.1	9028.2	8845.3	8250.4	7447.2	7297.6	7792.3	8030.9
52.5°	7434.4	7599.9	8337.9	9056.8	9277.9	9185.7	8757.8	8083.4	7798.7	8112.0	8081.8
55°	6286.0	6489.6	7811.4	8948.7	9503.8	9514.9	9290.7	8746.7	8342.7	8662.4	8395.2
57.5°	4771.8	4934.0	6012.4	7965.7	9130.0	9312.9	9497.4	9096.6	8678.3	9037.8	8468.3
60°	2875.8	3063.5	3764.9	5845.4	7374.0	7685.8	8409.5	8331.5	7827.3	7981.6	6944.5
62.5°	1165.9	1264.5	1738.5	3221.0	4641.4	4932.4	5625.9	5743.6	5619.6	5462.1	4211.9
65°	426.3	466.0	696.7	1331.3	2134.6	2241.1	2607.0	2815.4	2987.1	2543.4	1566.7
67.5°	264.0	289.5	453.3	684.0	776.2	722.1	734.9	876.4	836.7	516.9	279.9
70°	195.6	216.3	354.7	474.0	313.3	241.8	163.8	175.0	157.5	138.4	136.8
72.5°	135.2	154.3	265.6	279.9	120.9	85.9	60.4	84.3	95.4	93.8	97.0
75°	89.1	103.4	167.0	109.8	30.2	23.9	20.7	44.5	57.3	57.3	58.9
77.5°	52.5	60.4	58.9	22.3	6.4	6.4	4.8	8.0	12.7	14.3	17.5
80°	6.4	4.8	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8
82.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8
85°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.8	4.8
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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CATALOG NUMBER: GWS-SA3E-760-U-T3R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1	3337.1
2.5°	3368.9	3357.7	3403.9	3437.3	3464.3	3477.0	3459.5	3458.0	3458.0	3423.0	3413.4
5°	3408.6	3413.4	3478.6	3507.3	3512.0	3496.1	3456.4	3429.3	3413.4	3376.8	3356.2
7.5°	3485.0	3500.9	3562.9	3558.2	3515.2	3442.0	3337.1	3255.9	3203.5	3146.2	3111.2
10°	3594.7	3625.0	3663.1	3596.3	3459.5	3273.4	3057.1	2902.8	2810.6	2745.4	2705.6
12.5°	3728.4	3758.6	3745.9	3588.4	3303.7	2971.2	2692.9	2470.2	2363.6	2304.8	2263.4
15°	3863.6	3882.6	3799.9	3492.9	3028.5	2581.5	2271.4	2050.3	1919.8	1872.1	1837.1
17.5°	4001.9	3997.2	3809.5	3305.3	2661.1	2142.5	1837.1	1686.0	1649.4	1641.5	1638.3
20°	4146.7	4103.7	3771.3	3036.4	2218.9	1708.3	1534.9	1544.5	1611.3	1643.1	1649.4
22.5°	4312.1	4203.9	3675.9	2672.2	1767.2	1423.6	1441.1	1534.9	1625.6	1668.5	1674.9
25°	4488.7	4296.2	3516.8	2204.6	1393.4	1309.1	1412.4	1520.6	1617.6	1670.1	1676.5
27.5°	4604.8	4318.5	3255.9	1733.7	1196.1	1264.5	1374.3	1477.7	1577.9	1635.1	1643.1
30°	4730.4	4308.9	2901.2	1336.1	1129.3	1226.3	1321.8	1415.6	1507.9	1571.5	1577.9
32.5°	4914.9	4302.6	2468.6	1084.8	1102.3	1196.1	1266.1	1344.1	1407.7	1444.3	1439.5
35°	5156.7	4294.6	1964.4	978.2	1086.4	1172.3	1227.9	1264.5	1194.5	1172.3	1177.0
37.5°	5466.9	4313.7	1539.7	933.7	1081.6	1165.9	1213.6	1108.6	1000.5	959.1	952.8
40°	5810.4	4363.0	1173.9	916.2	1097.5	1181.8	1159.5	986.2	852.6	771.4	753.9
42.5°	6155.6	4417.1	928.9	909.8	1124.6	1226.3	1070.5	897.1	696.7	650.6	644.2
45°	6411.7	4407.5	803.3	898.7	1148.4	1251.8	1046.6	769.8	621.9	601.2	602.8
47.5°	6540.5	4302.6	734.9	873.2	1158.0	1226.3	987.8	717.4	571.0	593.3	612.4
50°	6472.1	4030.6	671.2	823.9	1137.3	1192.9	893.9	677.6	545.6	637.8	680.8
52.5°	6389.4	3696.5	601.2	747.6	1088.0	1146.8	857.3	666.5	529.7	615.6	647.4
55°	6499.2	3485.0	486.7	629.9	990.9	1038.7	828.7	664.9	493.1	478.8	474.0
57.5°	6344.9	3063.5	348.3	453.3	760.3	822.3	808.0	653.7	437.4	435.8	442.2
60°	4903.8	1868.9	238.6	287.9	466.0	524.9	733.3	625.1	377.0	346.7	348.3
62.5°	2786.7	795.3	163.8	178.1	238.6	283.1	559.9	567.8	348.3	330.8	348.3
65°	970.3	284.7	127.2	119.3	132.0	151.1	321.3	439.0	316.5	286.3	289.5
67.5°	200.4	141.6	112.9	98.6	98.6	98.6	163.8	273.6	260.9	227.5	230.6
70°	127.2	120.9	98.6	84.3	81.1	74.8	93.8	151.1	179.7	165.4	167.0
72.5°	93.8	92.3	77.9	68.4	60.4	54.1	58.9	74.8	92.3	95.4	97.0
75°	57.3	58.9	50.9	42.9	38.2	33.4	35.0	35.0	35.0	31.8	35.0
77.5°	17.5	19.1	15.9	12.7	11.1	11.1	11.1	9.5	8.0	4.8	4.8
80°	4.8	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0
82.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
85°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	0.0	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	3.2	3.2	1.6	1.6	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)