

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: P639303

Luminaire Tested: GWS-SA5B-750-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639303  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-750-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

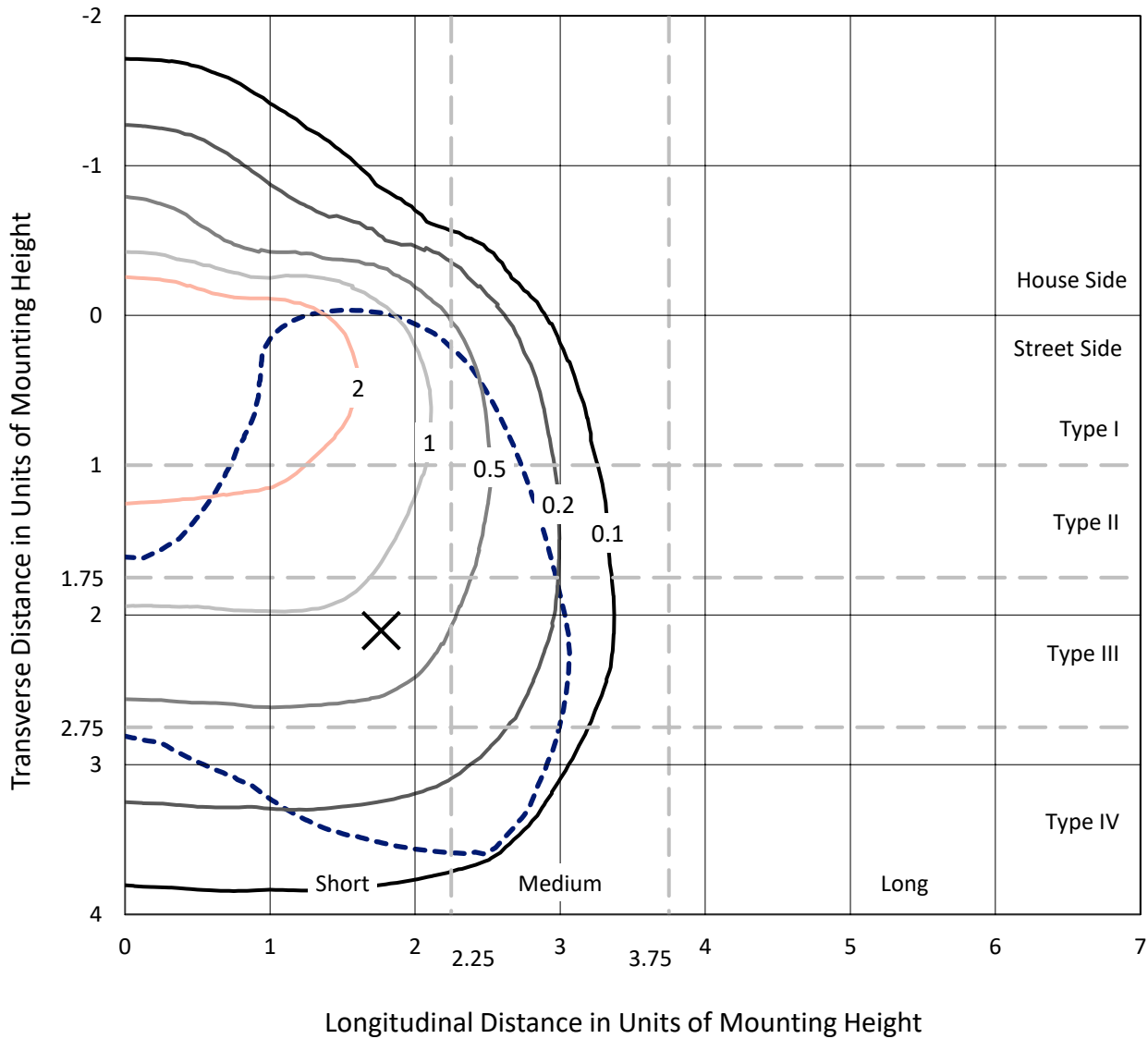
Lumens per Lamp: N/A  
Luminaire Lumens: 17443.3 lumens  
Efficiency: N/A  
Efficacy: 150.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

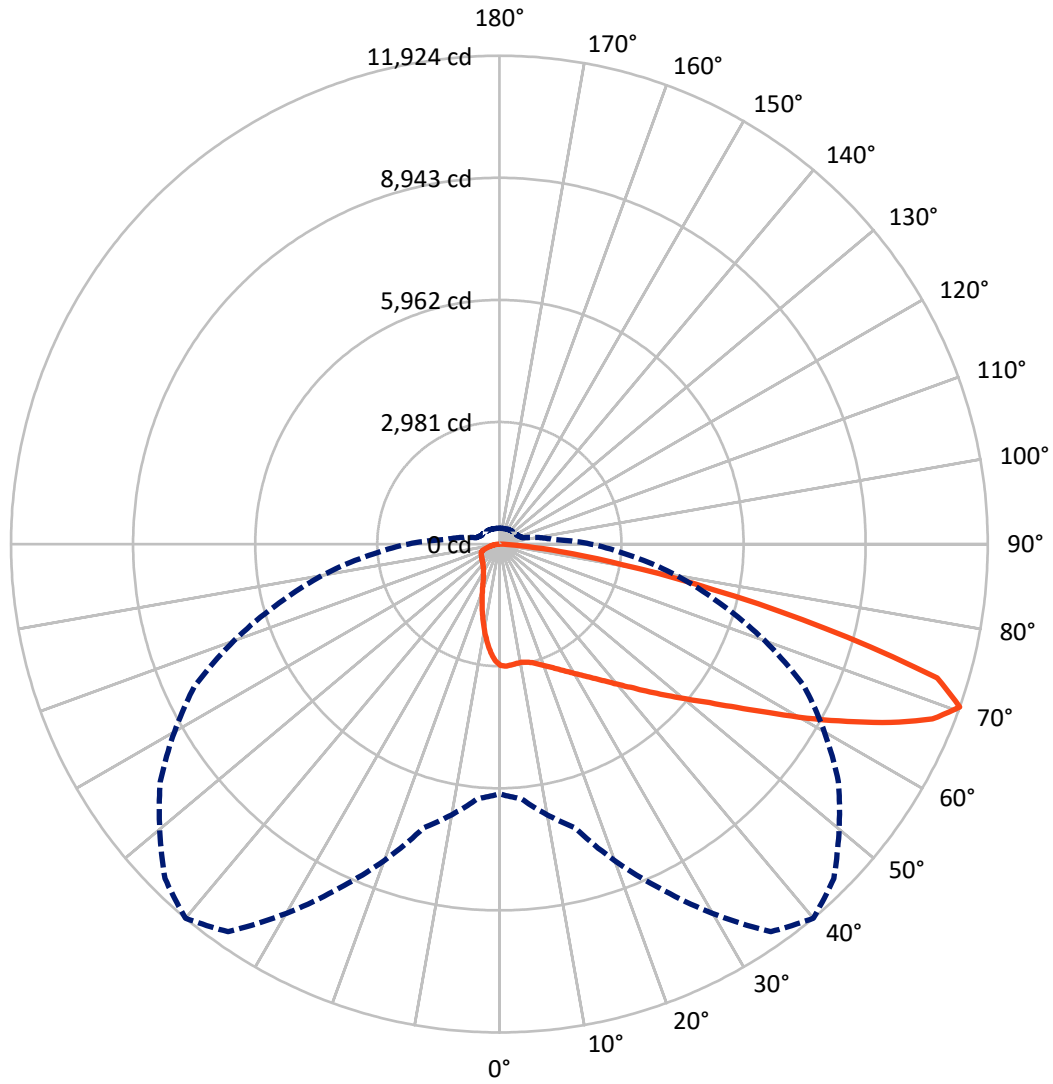
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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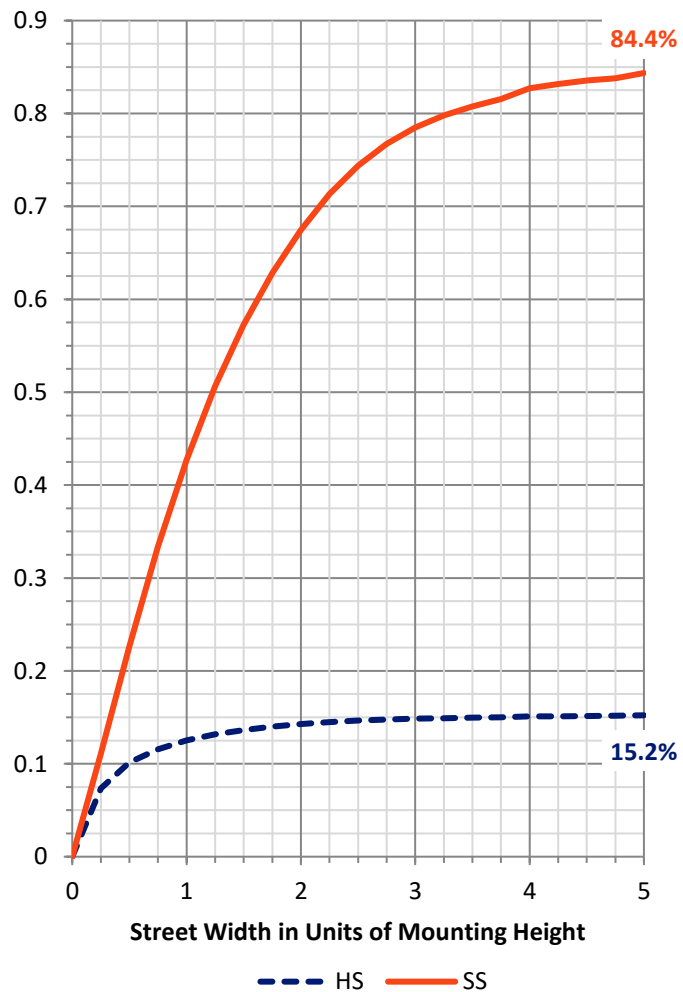
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2686.7	0.0	2686.7
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	14756.6	0.0	14756.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	17443.3	0.0	17443.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.7	1.5
10°-20°	682.1	3.9
20°-30°	1071.0	6.1
30°-40°	1610.2	9.2
40°-50°	2485.5	14.2
50°-60°	3691.1	21.2
60°-70°	4652.6	26.7
70°-80°	2690.6	15.4
80°-90°	298.6	1.7
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°	17443.3	100.0
0°-180°	17443.3	100.0

**Coefficient of Utilization**



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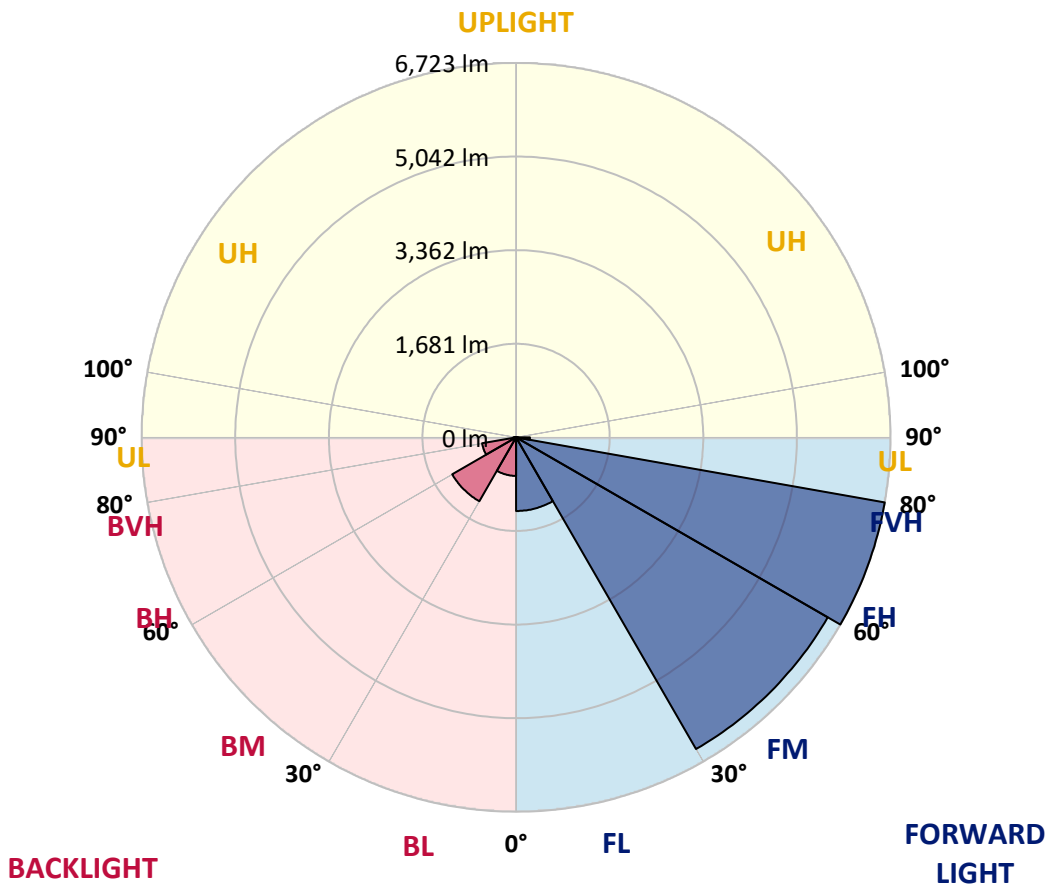
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.3	7.6			
FM (30°-60°)	6462.5	37.0			
FH (60°-80°)	6723.1	38.5			G3/7500
FVH (80°-90°)	248.7	1.4			G3/500
BL (0°-30°)	692.4	4.0	B2/1000		
BM (30°-60°)	1324.3	7.6	B2/2500		
BH (60°-80°)	620.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	49.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1
2.5°	2980.3	2985.5	2989.4	2994.6	2992.0	2984.2	2990.7	2990.7	2976.4	2960.8	2946.4
5°	2984.2	2990.7	2989.4	2988.1	2977.7	2964.7	2964.7	2956.9	2932.1	2907.4	2884.0
7.5°	2976.4	2975.1	2973.8	2969.9	2958.2	2943.8	2941.2	2925.6	2893.1	2859.2	2825.4
10°	2941.2	2939.9	2943.8	2953.0	2950.4	2937.3	2937.3	2923.0	2885.3	2843.6	2799.3
12.5°	2912.6	2912.6	2928.2	2953.0	2962.1	2956.9	2958.2	2947.8	2904.8	2855.3	2803.2
15°	2916.5	2917.8	2951.7	2992.0	3008.9	3005.0	3006.3	2994.6	2946.4	2897.0	2826.7
17.5°	2942.5	2949.1	3007.6	3063.6	3085.8	3080.6	3071.4	3051.9	2997.2	2941.2	2855.3
20°	2997.2	3007.6	3083.2	3153.5	3179.5	3167.8	3152.2	3113.1	3053.2	2992.0	2886.6
22.5°	3105.3	3111.8	3195.1	3264.1	3285.0	3270.6	3239.4	3183.4	3114.4	3050.6	2924.3
25°	3257.6	3265.4	3344.9	3408.7	3403.5	3386.5	3343.6	3274.6	3192.5	3124.8	2979.0
27.5°	3438.6	3451.6	3529.7	3580.5	3546.7	3521.9	3473.8	3390.4	3298.0	3236.8	3062.3
30°	3636.5	3641.7	3708.1	3758.9	3706.8	3673.0	3614.4	3524.5	3441.2	3395.6	3187.3
32.5°	3827.9	3833.1	3890.4	3919.0	3864.4	3839.6	3788.8	3693.8	3635.2	3610.5	3373.5
35°	4029.7	4028.4	4075.3	4100.0	4044.0	4033.6	3981.5	3908.6	3898.2	3930.8	3645.6
37.5°	4231.5	4219.8	4244.6	4277.1	4245.9	4256.3	4222.4	4197.7	4238.0	4322.7	4007.6
40°	4393.0	4393.0	4419.0	4459.4	4469.8	4515.4	4495.8	4528.4	4658.6	4860.4	4455.5
42.5°	4536.2	4537.5	4592.2	4654.7	4730.2	4800.5	4816.1	4900.8	5170.3	5486.7	5017.9
45°	4685.9	4687.2	4761.4	4852.6	5012.7	5146.8	5178.1	5368.2	5753.6	6139.0	5628.6
47.5°	4859.1	4844.8	4947.6	5100.0	5327.8	5520.5	5601.2	5870.8	6357.7	6831.6	6204.1
50°	5054.4	5024.5	5139.0	5402.0	5683.3	5947.6	6083.0	6391.6	7006.1	7470.9	6745.7
52.5°	5274.4	5257.5	5377.3	5697.6	6127.3	6431.9	6615.5	7020.4	7636.3	8107.6	7175.4
55°	5547.9	5507.5	5680.7	6088.2	6648.1	7036.1	7253.5	7642.8	8325.1	8685.7	7503.5
57.5°	5847.3	5803.1	6034.8	6576.5	7325.1	7750.9	8023.0	8343.3	8973.5	9128.4	7696.2
60°	6170.2	6155.9	6430.6	7149.3	8132.4	8627.1	8823.7	9114.1	9537.2	9384.9	7648.0
62.5°	6465.8	6460.6	6860.3	7770.4	8987.8	9532.0	9688.3	9765.1	9943.4	9368.0	7265.2
65°	6777.0	6821.2	7361.6	8490.4	9968.2	10502.0	10567.1	10371.8	10080.2	8924.0	6481.4
67.5°	6816.0	6902.0	7676.6	9164.8	10897.8	11401.7	11349.6	10602.3	9676.5	7688.4	5080.4
70°	6096.0	6245.7	7174.1	9267.7	11552.7	11923.8	11547.5	10106.2	8211.8	5570.0	3195.1
72.5°	5093.5	5222.4	6042.6	7903.2	10707.7	11180.4	10671.3	8554.2	5803.1	3195.1	1627.5
75°	3964.6	4114.4	4870.8	6282.2	8016.5	8205.3	7950.1	5965.8	3189.9	1317.6	739.5
77.5°	2419.1	2527.2	3115.7	4256.3	5609.1	5326.5	4514.1	3344.9	1399.7	631.5	457.0
80°	1070.3	1136.7	1535.1	2286.3	3240.7	3063.6	2415.2	1428.3	765.6	401.0	319.0
82.5°	574.2	617.2	756.5	904.9	1423.1	1488.2	1207.0	822.9	411.4	229.2	182.3
85°	252.6	277.3	343.7	328.1	467.4	459.6	463.5	565.1	196.6	105.5	118.5
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	14.3	75.5	19.5	31.2	27.3
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°	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1	2962.1
2.5°	2930.8	2907.4	2900.9	2893.1	2878.7	2854.0	2835.8	2814.9	2805.8	2795.4	2796.7
5°	2857.9	2829.3	2801.9	2766.8	2722.5	2673.0	2639.2	2600.1	2579.3	2559.8	2565.0
7.5°	2795.4	2751.1	2695.2	2620.9	2541.5	2453.0	2381.4	2325.4	2287.6	2261.6	2274.6
10°	2756.4	2704.3	2606.6	2485.5	2351.4	2216.0	2113.2	2016.8	1956.9	1910.0	1907.4
12.5°	2748.5	2680.8	2538.9	2363.1	2169.1	1988.2	1837.1	1706.9	1627.5	1568.9	1591.1
15°	2756.4	2670.4	2480.3	2249.9	2005.1	1760.3	1572.8	1423.1	1328.1	1274.7	1270.8
17.5°	2765.5	2660.0	2413.9	2127.5	1833.2	1553.3	1335.9	1177.0	1079.4	1026.0	1027.3
20°	2773.3	2644.4	2335.8	1993.4	1658.8	1360.6	1135.4	984.3	897.1	858.0	864.5
22.5°	2786.3	2628.8	2252.5	1850.2	1480.4	1174.4	976.5	854.1	802.0	776.0	777.3
25°	2811.0	2619.6	2166.5	1693.9	1304.6	1026.0	867.1	785.1	752.6	736.9	735.6
27.5°	2861.8	2627.5	2076.7	1542.9	1145.8	912.7	796.8	743.4	721.3	710.9	709.6
30°	2946.4	2658.7	1998.6	1389.2	1009.1	824.2	748.7	716.1	703.1	694.0	692.7
32.5°	3075.3	2717.3	1914.0	1246.0	898.4	759.1	710.9	694.0	684.9	679.6	679.6
35°	3270.6	2824.1	1830.6	1121.0	812.5	708.3	681.0	674.4	666.6	664.0	666.6
37.5°	3551.9	2994.6	1755.1	1011.7	751.3	669.2	648.4	651.0	644.5	648.4	652.3
40°	3908.6	3222.5	1691.3	921.8	705.7	640.6	619.8	628.9	625.0	628.9	635.4
42.5°	4360.4	3505.0	1643.1	851.5	673.1	617.2	597.6	606.7	604.1	609.3	615.9
45°	4864.3	3877.4	1621.0	802.0	649.7	600.2	579.4	585.9	583.3	587.2	593.7
47.5°	5347.4	4215.9	1640.5	773.4	630.2	585.9	563.8	566.4	565.1	563.8	567.7
50°	5764.0	4485.4	1696.5	764.3	617.2	571.6	550.8	552.1	548.1	540.3	542.9
52.5°	6103.8	4701.6	1730.4	764.3	610.6	556.0	536.4	537.7	529.9	519.5	520.8
55°	6327.8	4788.8	1703.0	763.0	608.0	542.9	522.1	523.4	515.6	502.6	503.9
57.5°	6391.6	4704.2	1588.5	748.7	605.4	532.5	507.8	510.4	505.2	490.9	490.9
60°	6213.2	4394.3	1378.8	716.1	598.9	526.0	497.4	501.3	498.7	484.3	484.3
62.5°	5745.8	3843.5	1128.8	666.6	580.7	518.2	488.3	496.1	502.6	494.8	493.5
65°	4870.8	3079.3	917.9	611.9	557.3	505.2	475.2	494.8	509.1	519.5	519.5
67.5°	3654.7	2204.3	748.7	554.7	522.1	479.1	458.3	476.5	487.0	493.5	497.4
70°	2227.7	1296.8	589.8	488.3	471.3	440.1	424.5	406.2	391.9	389.3	390.6
72.5°	1089.8	742.1	479.1	415.3	402.3	373.7	338.5	330.7	324.2	320.3	319.0
75°	600.2	516.9	395.8	345.0	321.6	286.4	278.6	265.6	263.0	257.8	259.1
77.5°	424.5	407.5	326.8	279.9	244.8	226.5	230.5	221.3	221.3	217.4	216.1
80°	319.0	320.3	251.3	204.4	181.0	174.5	178.4	178.4	175.8	174.5	173.2
82.5°	201.8	227.9	169.3	131.5	128.9	130.2	128.9	127.6	130.2	126.3	125.0
85°	139.3	164.1	102.9	78.1	78.1	76.8	79.4	78.1	80.7	76.8	76.8
87.5°	31.2	72.9	37.8	23.4	24.7	23.4	24.7	26.0	28.6	29.9	29.9
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)