

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: P639051

Luminaire Tested: GWS-SA5B-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

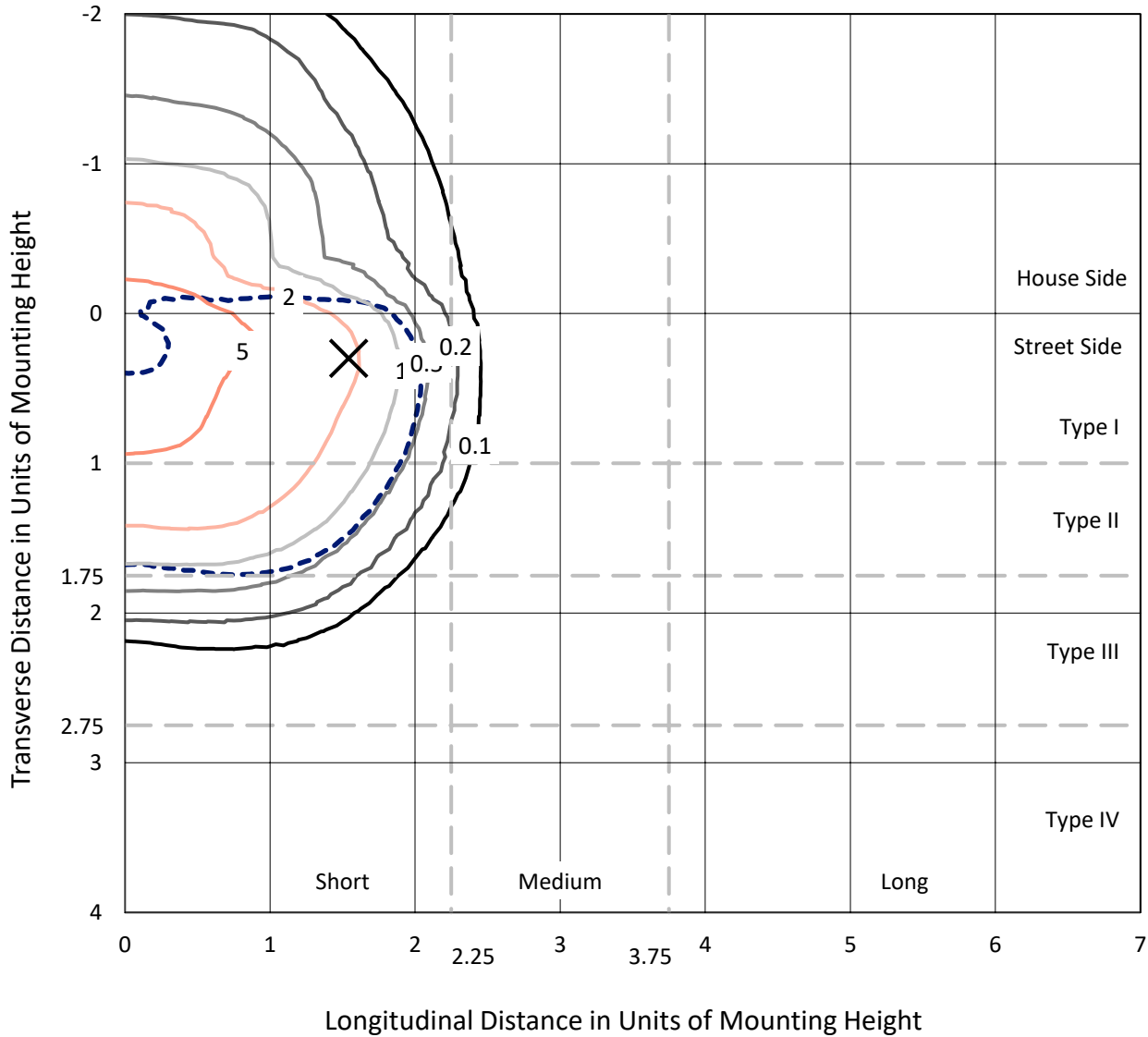
Lumens per Lamp: N/A  
Luminaire Lumens: 11466.7 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

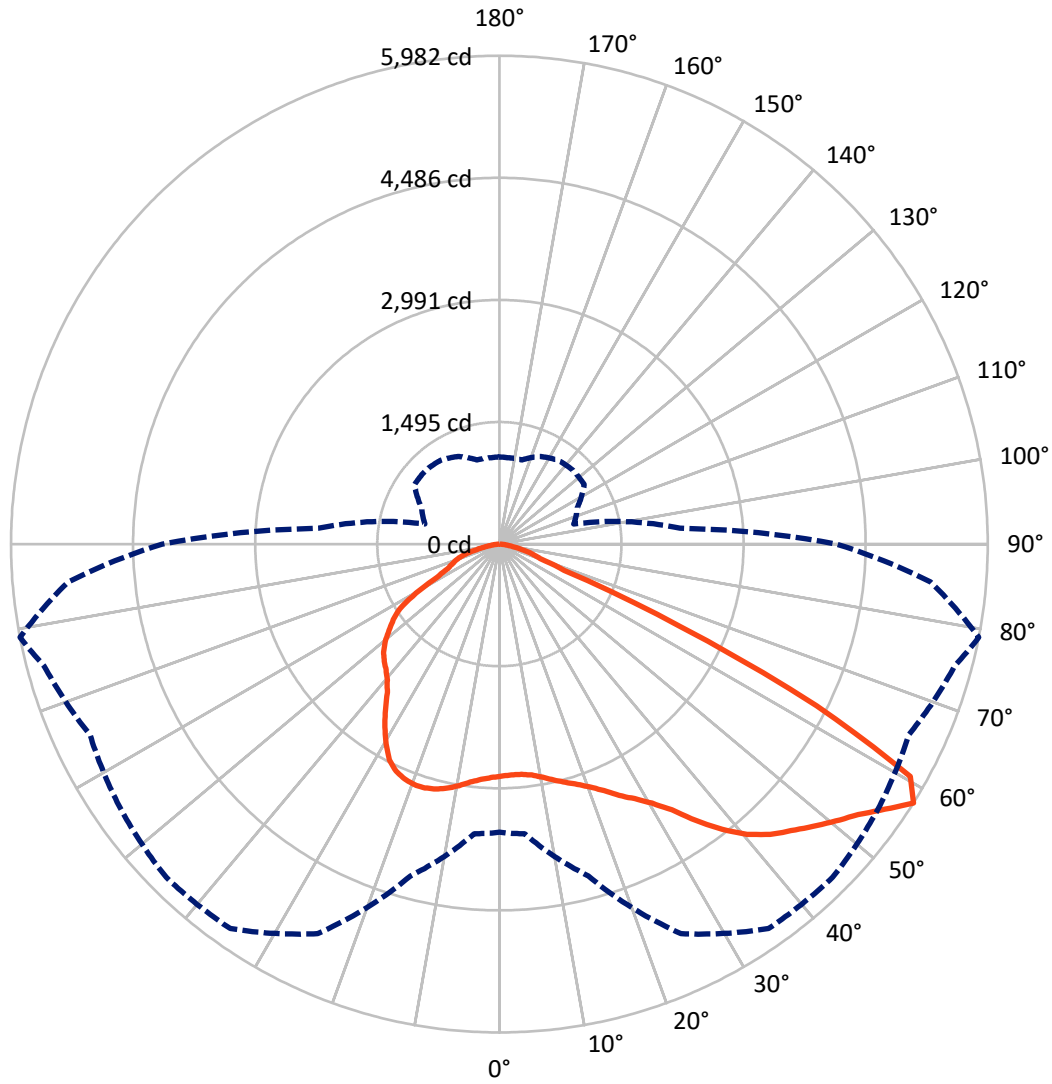
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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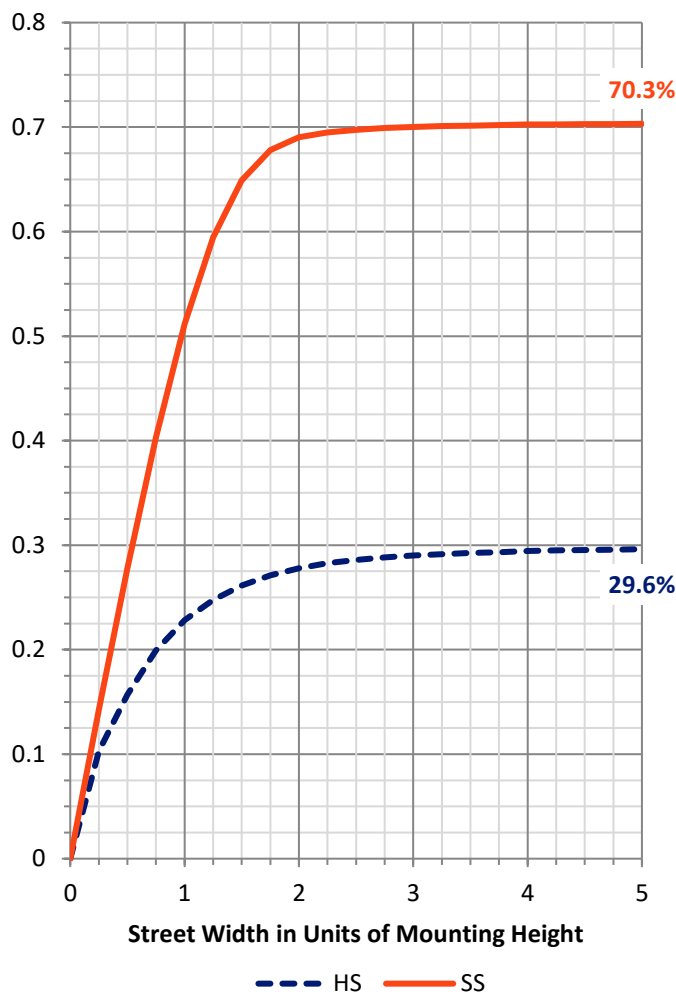
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3408.5	0.0	3408.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	8058.2	0.0	8058.2
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	11466.7	0.0	11466.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.2	2.3
10°-20°	731.3	6.4
20°-30°	1239.7	10.8
30°-40°	1897.5	16.5
40°-50°	2530.1	22.1
50°-60°	2922.0	25.5
60°-70°	1518.4	13.2
70°-80°	322.8	2.8
80°-90°	41.8	0.4
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°	11466.7	100.0
0°-180°	11466.7	100.0

**Coefficient of Utilization**



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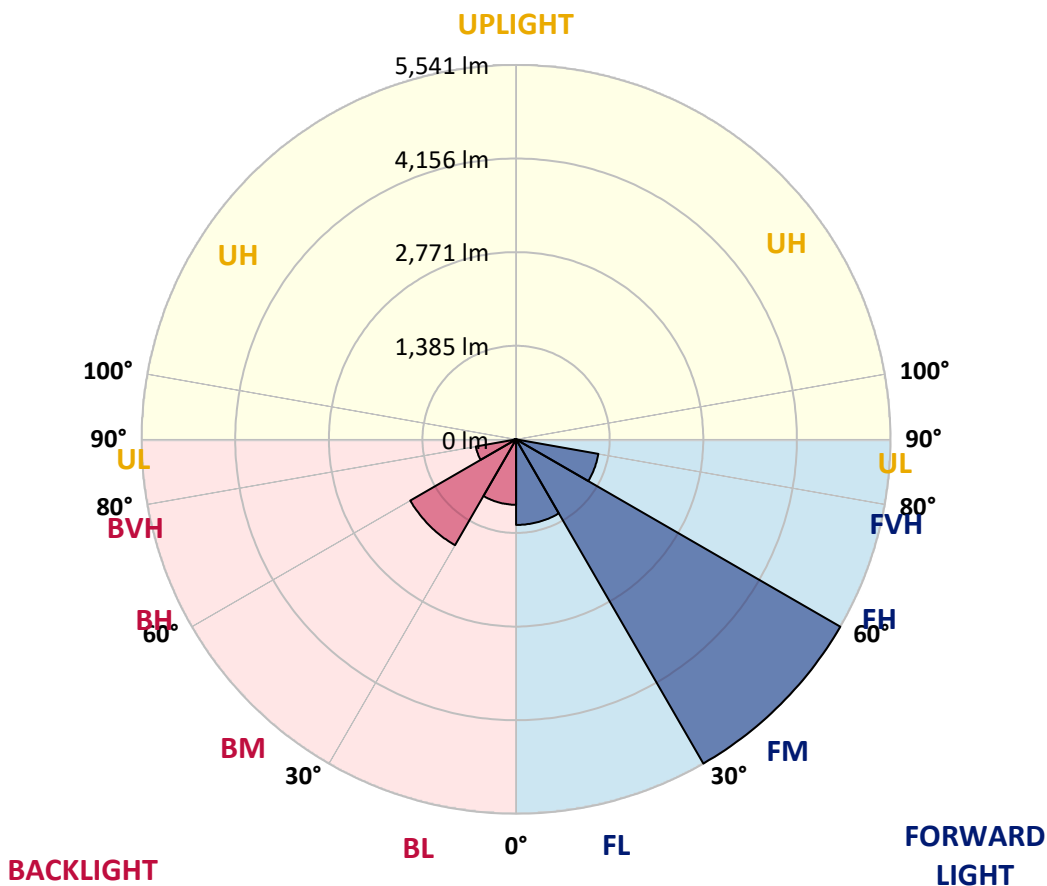
CATALOG NUMBER: GWS-SA5B-722-U-T3R-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.2	11.0			
FM (30°-60°)	5541.0	48.3			
FH (60°-80°)	1236.4	10.8			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	968.0	8.4	B2/1000		
BM (30°-60°)	1808.5	15.8	B2/2500		
BH (60°-80°)	604.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7
2.5°	2712.3	2706.7	2708.6	2716.1	2744.2	2764.8	2786.4	2806.1	2824.8	2830.5	2835.2
5°	2615.8	2605.5	2608.3	2620.5	2653.3	2688.0	2726.4	2773.3	2818.3	2833.3	2853.0
7.5°	2547.3	2545.4	2550.1	2568.9	2603.6	2636.4	2686.1	2752.6	2830.5	2855.8	2890.5
10°	2456.4	2452.6	2471.4	2509.8	2567.0	2619.5	2678.6	2757.3	2866.1	2903.6	2957.0
12.5°	2384.2	2382.3	2402.0	2455.4	2528.6	2612.0	2693.6	2781.7	2913.9	2965.5	3031.1
15°	2426.4	2417.9	2418.9	2456.4	2522.0	2620.5	2731.1	2825.8	2961.7	3027.3	3111.7
17.5°	2549.2	2534.2	2522.9	2529.5	2567.0	2669.2	2788.3	2884.8	3017.0	3093.9	3197.0
20°	2718.9	2710.5	2679.5	2658.9	2667.3	2757.3	2878.3	2968.3	3089.2	3175.5	3286.1
22.5°	2946.7	2926.1	2883.9	2851.1	2825.8	2896.1	3007.7	3085.5	3189.5	3279.5	3394.9
25°	3228.9	3198.9	3132.4	3080.8	3026.4	3098.6	3198.0	3257.0	3327.4	3410.8	3520.5
27.5°	3516.7	3491.4	3417.4	3348.0	3280.5	3325.5	3443.6	3477.4	3469.9	3530.8	3624.6
30°	3823.3	3791.5	3721.1	3646.1	3558.9	3588.0	3693.9	3710.8	3631.1	3681.8	3745.5
32.5°	4146.8	4115.8	4054.9	3967.7	3869.3	3880.5	3909.6	3925.5	3849.6	3878.6	3927.4
35°	4475.9	4446.8	4384.9	4298.7	4226.5	4158.0	4084.9	4148.7	4104.6	4160.8	4157.1
37.5°	4776.8	4747.8	4709.3	4642.7	4519.0	4384.0	4215.2	4294.0	4362.4	4433.7	4421.5
40°	4980.3	4960.6	4970.0	4959.6	4800.3	4533.1	4279.0	4365.2	4551.8	4673.7	4667.1
42.5°	5155.6	5135.9	5190.3	5229.7	5042.1	4670.9	4309.9	4392.4	4672.7	4863.1	4853.7
45°	5233.4	5227.8	5317.8	5442.5	5263.4	4817.1	4389.6	4448.7	4764.6	5008.4	4972.8
47.5°	5140.6	5160.3	5337.5	5548.4	5447.2	4990.6	4552.7	4567.7	4884.6	5165.9	5065.6
50°	4955.9	4999.0	5238.1	5551.2	5581.2	5186.5	4778.7	4741.2	5045.9	5333.7	5114.3
52.5°	4686.8	4731.8	5121.8	5529.7	5658.1	5413.4	5079.6	5026.2	5249.3	5501.5	5122.8
55°	4069.0	4129.9	4855.6	5480.9	5733.1	5619.7	5419.0	5310.3	5511.9	5732.2	5206.2
57.5°	3529.9	3561.8	4206.8	5264.3	5748.1	5771.6	5660.9	5531.5	5772.5	5981.6	5300.0
60°	2590.5	2598.0	3178.3	4355.9	5287.8	5683.4	5641.2	5449.0	5648.7	5781.9	4870.6
62.5°	1463.5	1464.5	1927.6	2907.3	3949.9	4632.4	4658.7	4489.0	4321.2	4360.5	3390.2
65°	549.4	601.0	880.4	1428.8	2277.3	2734.8	2843.6	2883.0	2603.6	2430.1	1817.9
67.5°	367.5	379.7	513.8	735.0	1013.5	1170.1	1308.8	1312.6	960.1	856.0	716.3
70°	280.3	292.5	404.1	526.0	513.8	474.4	512.8	498.8	515.7	529.7	544.7
72.5°	209.1	221.3	313.1	371.3	308.5	303.8	344.1	382.5	418.1	433.1	456.6
75°	138.8	148.1	210.9	198.8	170.6	201.6	251.3	289.7	310.3	328.1	346.0
77.5°	88.1	94.7	112.5	90.9	94.7	118.1	146.3	180.9	200.6	218.4	227.8
80°	40.3	39.4	38.4	43.1	53.4	69.4	88.1	108.8	123.8	131.3	136.9
82.5°	15.9	17.8	19.7	23.4	29.1	37.5	49.7	63.8	75.9	77.8	82.5
85°	6.6	7.5	8.4	10.3	13.1	16.9	20.6	29.1	36.6	39.4	42.2
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	2.8	4.7	8.4	9.4	10.3
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°	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7	2841.7
2.5°	2860.5	2848.3	2868.9	2883.0	2896.1	2882.0	2877.3	2865.2	2863.3	2863.3	2869.8
5°	2886.7	2878.3	2899.8	2908.3	2907.3	2876.4	2857.7	2833.3	2821.1	2821.1	2823.0
7.5°	2933.6	2928.9	2941.1	2928.0	2898.0	2835.2	2773.3	2721.7	2687.0	2669.2	2674.8
10°	3011.4	3005.8	2995.5	2946.7	2860.5	2730.1	2603.6	2509.8	2453.6	2421.7	2423.6
12.5°	3087.4	3078.0	3041.4	2933.6	2756.4	2549.2	2383.3	2278.2	2216.4	2178.9	2170.4
15°	3170.8	3146.4	3067.7	2866.1	2586.7	2327.9	2154.5	2041.0	1974.5	1952.0	1951.0
17.5°	3250.5	3207.4	3064.9	2746.1	2383.3	2096.4	1922.0	1851.7	1840.4	1850.7	1853.5
20°	3331.1	3261.7	3033.9	2580.1	2141.4	1865.7	1775.7	1804.8	1847.0	1875.1	1881.7
22.5°	3414.6	3306.7	2963.6	2366.4	1886.4	1710.1	1747.6	1811.3	1863.8	1901.4	1905.1
25°	3508.3	3348.9	2858.6	2104.8	1682.0	1667.0	1741.0	1808.5	1864.8	1907.9	1915.4
27.5°	3561.8	3349.9	2711.4	1835.7	1588.2	1650.1	1725.1	1788.8	1845.1	1892.0	1900.4
30°	3614.3	3324.6	2477.9	1617.3	1561.0	1630.4	1697.9	1757.0	1810.4	1856.3	1866.7
32.5°	3688.3	3301.1	2208.9	1491.6	1545.1	1611.6	1667.0	1719.5	1760.7	1781.3	1787.0
35°	3780.2	3271.1	1922.9	1437.3	1534.8	1596.6	1645.4	1673.5	1620.1	1608.8	1621.0
37.5°	3908.6	3243.0	1637.9	1413.8	1528.2	1591.0	1634.1	1562.0	1496.3	1470.1	1479.5
40°	4047.4	3227.0	1444.8	1395.1	1531.0	1596.6	1587.3	1480.4	1385.7	1330.4	1328.5
42.5°	4165.5	3202.7	1321.0	1382.9	1538.5	1618.2	1523.5	1408.2	1267.6	1234.8	1235.7
45°	4245.2	3140.8	1255.4	1369.8	1545.1	1622.9	1493.5	1308.8	1208.5	1187.9	1186.9
47.5°	4278.0	3028.3	1213.2	1349.1	1544.1	1584.5	1432.6	1267.6	1167.2	1161.6	1165.4
50°	4256.5	2843.6	1170.1	1308.8	1521.6	1544.1	1362.3	1231.0	1139.1	1170.1	1192.6
52.5°	4176.8	2604.5	1118.5	1253.5	1481.3	1498.2	1326.6	1208.5	1118.5	1159.7	1177.6
55°	4156.2	2410.4	1052.9	1181.3	1421.3	1416.6	1289.1	1197.3	1104.4	1088.5	1091.3
57.5°	4129.0	2221.1	944.1	1051.9	1269.4	1276.9	1253.5	1184.1	1067.9	1063.2	1067.9
60°	3587.1	1702.6	841.9	907.5	1042.6	1082.9	1213.2	1159.7	1008.8	989.1	988.2
62.5°	2342.9	1031.3	749.1	791.3	849.4	896.3	1106.3	1089.4	944.1	931.9	940.4
65°	1260.1	735.0	681.6	706.9	738.8	774.4	916.9	970.4	853.2	810.0	811.0
67.5°	644.1	625.3	631.0	648.8	673.2	691.0	739.7	786.6	727.5	691.0	690.0
70°	551.3	566.3	574.7	585.0	601.0	598.2	602.8	611.3	606.6	588.8	587.8
72.5°	469.7	493.2	495.0	496.9	502.5	489.4	481.0	466.9	467.8	470.6	471.6
75°	357.2	379.7	385.3	382.5	388.1	371.3	360.0	346.0	329.1	326.3	328.1
77.5°	232.5	250.3	258.8	256.9	259.7	246.6	241.0	225.9	206.3	198.8	198.8
80°	140.6	150.9	157.5	159.4	162.2	152.8	143.4	130.3	121.9	113.4	113.4
82.5°	85.3	91.9	96.6	96.6	99.4	89.1	81.6	72.2	68.4	60.9	60.9
85°	43.1	47.8	49.7	48.8	46.9	38.4	35.6	30.9	29.1	25.3	25.3
87.5°	10.3	13.1	13.1	9.4	9.4	4.7	2.8	0.9	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)