

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: P640139

Luminaire Tested: GWS-SA5D-730-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

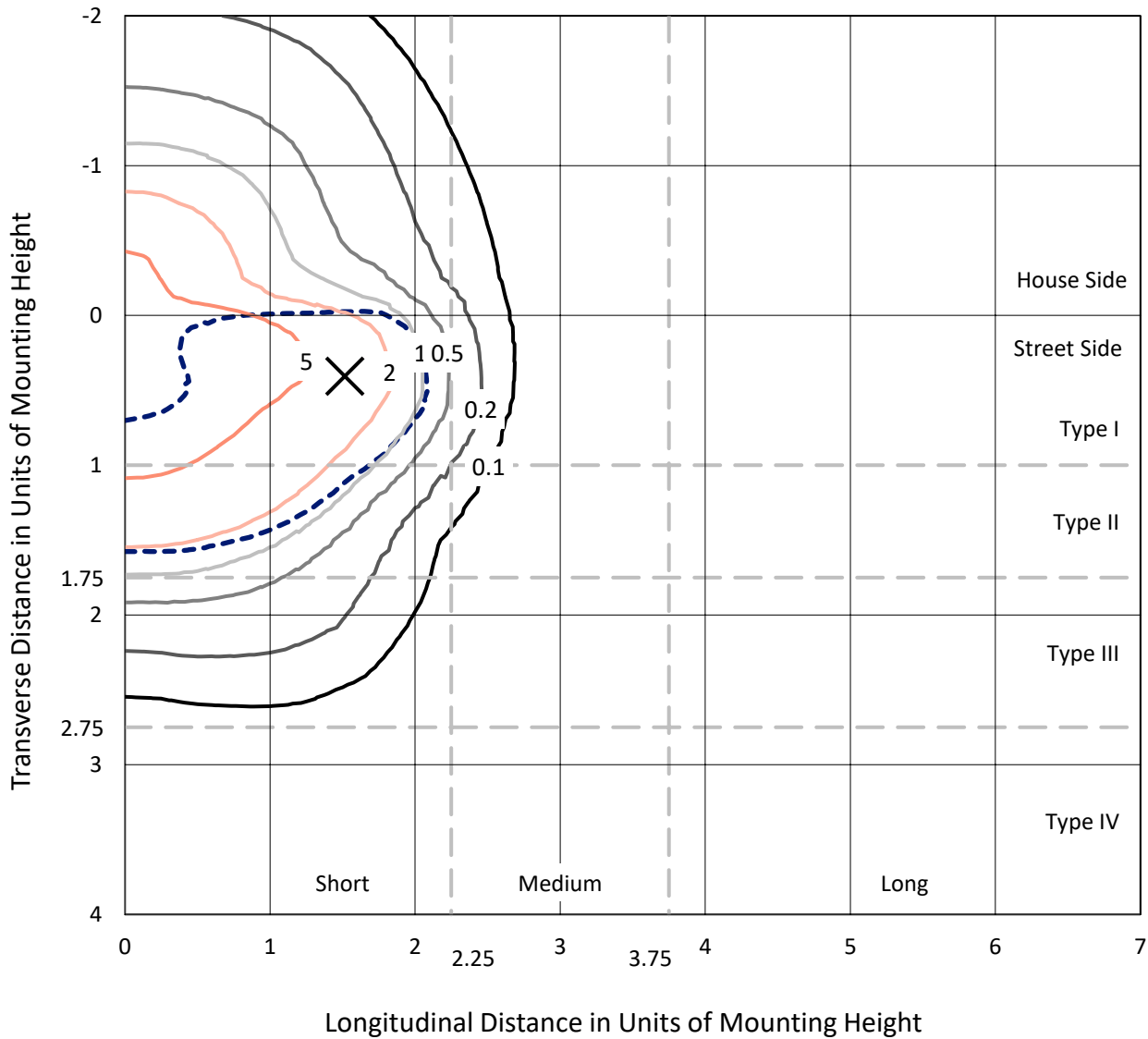
Lumens per Lamp: N/A  
Luminaire Lumens: 22807.1 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

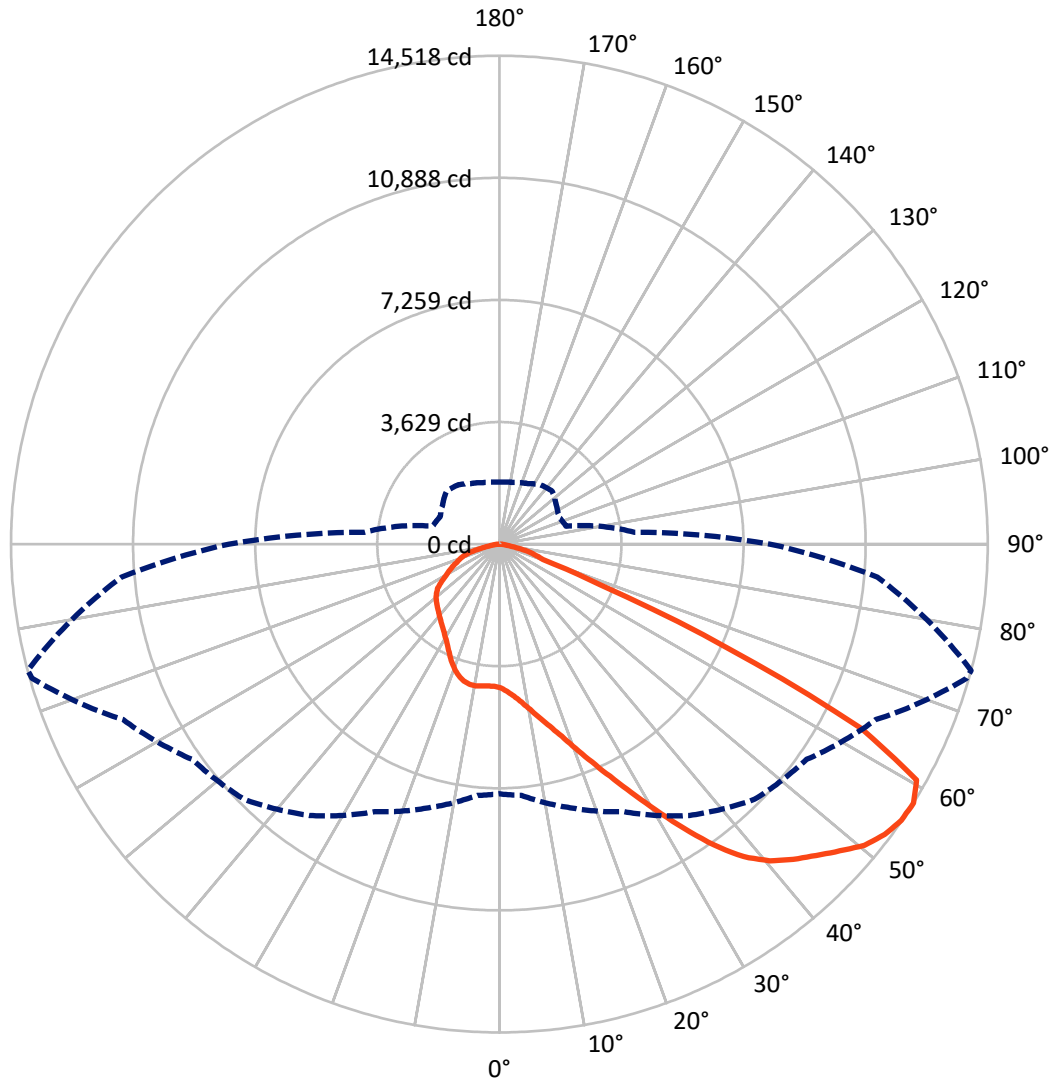
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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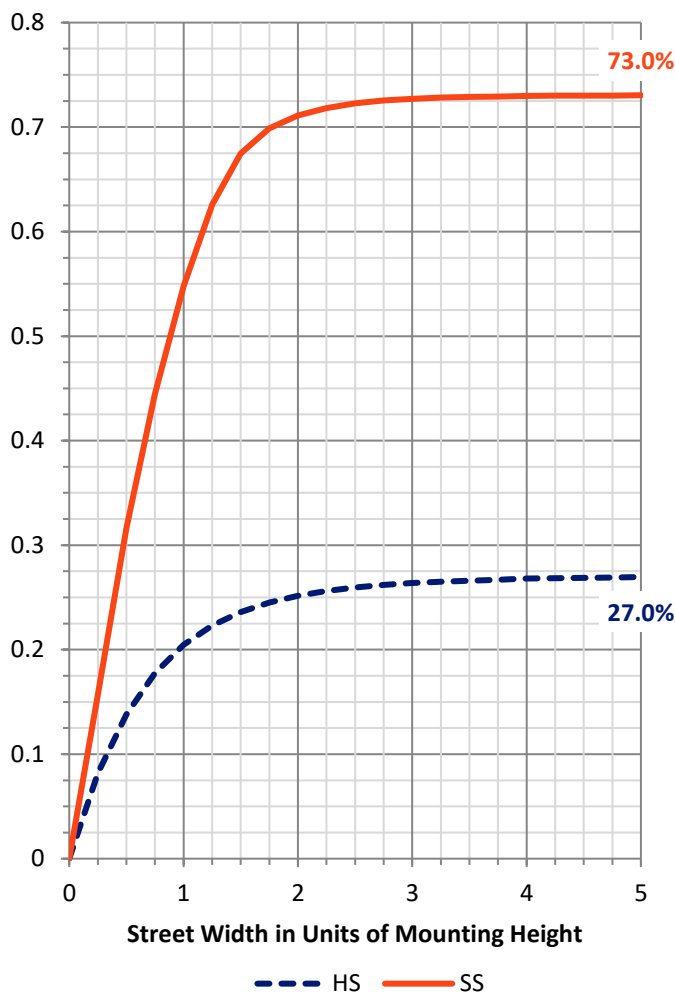
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6169.8	0.0	6169.8
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	16637.3	0.0	16637.3
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	22807.1	0.0	22807.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	1.9
10°-20°	1360.8	6.0
20°-30°	2413.4	10.6
30°-40°	3694.5	16.2
40°-50°	5144.2	22.6
50°-60°	5894.3	25.8
60°-70°	3028.6	13.3
70°-80°	762.5	3.3
80°-90°	81.5	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°	22807.1	100.0
0°-180°	22807.1	100.0

**Coefficient of Utilization**



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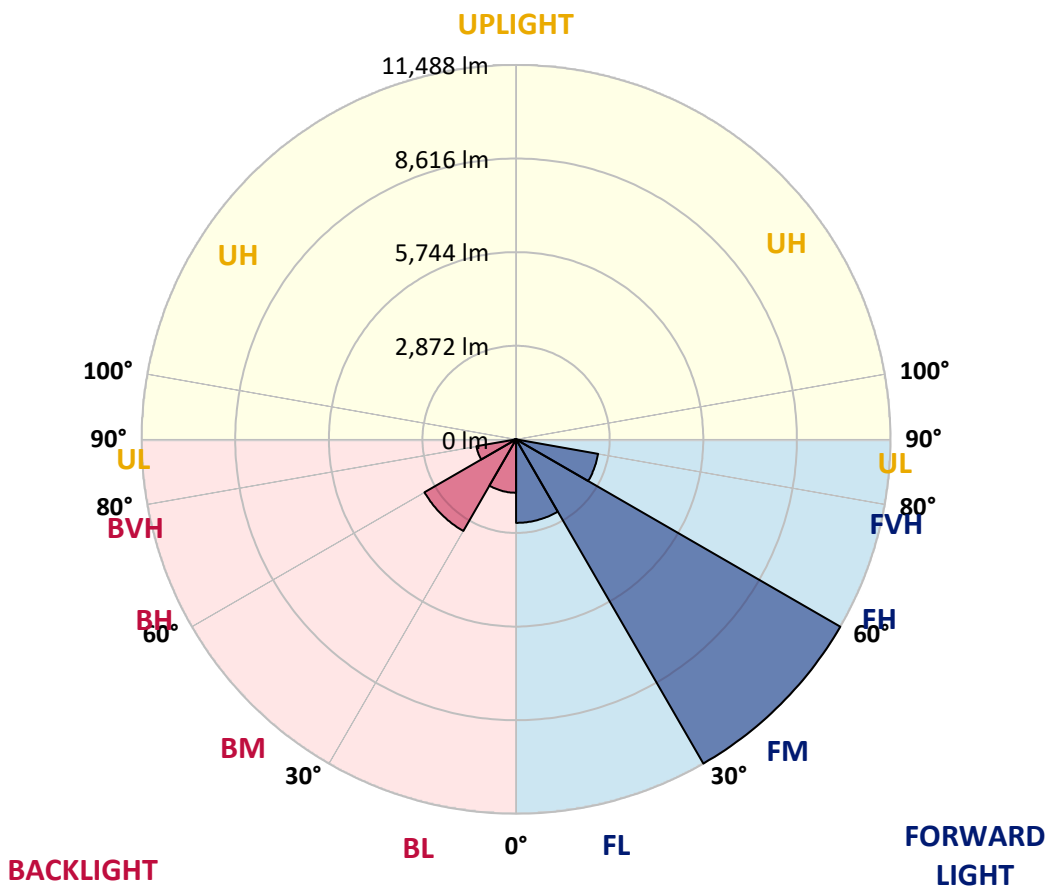
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2562.5	11.2			
FM (30°-60°)	11488.2	50.4			
FH (60°-80°)	2556.4	11.2			G2/5000
FVH (80°-90°)	30.2	0.1			G1/100
BL (0°-30°)	1639.1	7.2	B3/2500		
BM (30°-60°)	3244.7	14.2	B3/5000		
BH (60°-80°)	1234.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	51.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2
2.5°	4588.9	4600.7	4588.9	4608.5	4569.3	4551.7	4508.5	4443.8	4392.8	4385.0	4328.1
5°	4945.8	4971.3	4955.6	4947.8	4894.8	4855.6	4790.9	4661.5	4555.6	4539.9	4428.1
7.5°	5175.3	5192.9	5192.9	5198.8	5179.2	5134.1	5065.5	4912.5	4763.5	4739.9	4571.3
10°	5251.8	5265.5	5291.0	5340.0	5379.2	5393.0	5347.9	5200.8	5018.4	4994.9	4759.5
12.5°	5269.4	5285.1	5324.3	5414.5	5522.4	5620.4	5628.3	5520.4	5316.5	5291.0	4977.2
15°	5302.7	5318.4	5371.4	5483.2	5642.0	5830.3	5946.0	5871.5	5645.9	5618.5	5224.3
17.5°	5298.8	5316.5	5394.9	5544.0	5757.7	6030.3	6253.9	6285.2	6051.9	6004.8	5504.7
20°	5289.0	5304.7	5389.0	5571.4	5836.2	6210.7	6614.7	6777.5	6526.5	6483.3	5832.2
22.5°	5367.5	5385.1	5449.8	5600.8	5877.3	6350.0	6948.1	7340.3	7089.3	7028.5	6208.8
25°	5544.0	5569.5	5608.7	5712.6	5951.9	6473.5	7289.3	7977.7	7720.8	7648.2	6618.6
27.5°	5816.5	5847.9	5902.8	5951.9	6118.6	6630.4	7628.6	8691.5	8434.6	8358.1	7052.0
30°	6149.9	6191.1	6261.7	6295.1	6408.8	6861.8	7997.3	9426.9	9277.8	9171.9	7540.3
32.5°	6610.8	6667.7	6734.3	6744.1	6812.8	7212.8	8362.0	10156.4	10154.4	10079.9	8095.3
35°	7210.9	7271.7	7285.4	7299.1	7332.5	7695.3	8803.3	10821.2	11078.1	10991.8	8699.3
37.5°	7865.9	7954.1	7975.7	7914.9	7962.0	8275.7	9299.4	11354.6	11882.2	11790.0	9283.7
40°	8566.0	8601.3	8660.1	8564.0	8622.8	8940.5	9785.8	11695.9	12482.2	12384.2	9744.6
42.5°	9068.0	9132.7	9221.0	9185.7	9219.0	9509.3	10127.0	11860.6	12909.8	12811.7	10076.0
45°	9613.2	9632.8	9689.7	9681.8	9701.4	9972.1	10372.1	11933.1	13292.2	13203.9	10358.4
47.5°	10087.8	10117.2	10154.4	10111.3	10068.2	10244.7	10572.2	11995.9	13733.4	13627.5	10654.5
50°	10544.7	10570.2	10615.3	10489.8	10329.0	10374.1	10670.2	12082.2	14147.2	14072.7	10887.9
52.5°	10629.0	10656.5	10868.3	10893.8	10687.9	10529.0	10842.8	12272.4	14390.4	14343.3	10972.2
55°	9568.1	9617.1	10038.7	10523.1	11031.0	10980.1	11119.3	12372.4	14486.5	14498.2	11123.2
57.5°	7426.6	7497.2	8113.0	8777.8	9846.6	10731.0	11154.6	12346.9	14453.1	14517.8	11278.1
60°	4871.3	4912.5	5642.0	6387.2	7495.2	8718.9	9983.8	11888.0	14157.0	14249.2	11238.9
62.5°	2941.6	2988.7	3575.0	4139.8	4792.9	5610.6	6771.6	9554.4	11866.5	12072.4	9001.3
65°	2053.2	2116.0	2629.8	3094.6	3320.1	3151.4	3429.9	5336.1	7393.3	7479.5	5500.8
67.5°	1488.5	1531.6	1953.2	2506.3	2755.3	2225.8	1696.3	2363.1	3220.1	3251.5	2269.0
70°	974.7	1023.7	1406.1	1908.1	2249.4	1804.2	1268.8	1278.6	1355.1	1370.8	1317.8
72.5°	535.4	564.8	868.8	1266.9	1329.6	1078.6	990.3	1062.9	1115.9	1115.9	1129.6
75°	276.5	302.0	355.0	417.7	504.0	590.3	713.8	821.7	878.6	882.5	876.6
77.5°	141.2	151.0	190.2	205.9	225.5	262.8	341.2	437.3	488.3	507.9	504.0
80°	66.7	70.6	80.4	94.1	115.7	147.1	184.3	219.6	251.0	254.9	276.5
82.5°	35.3	39.2	43.1	51.0	62.8	78.4	107.9	129.4	149.0	153.0	170.6
85°	13.7	15.7	17.6	19.6	27.5	33.3	45.1	60.8	74.5	74.5	88.2
87.5°	0.0	0.0	0.0	0.0	2.0	3.9	7.8	9.8	13.7	13.7	23.5
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°	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2
2.5°	4314.4	4257.5	4232.0	4190.8	4157.5	4120.2	4090.8	4069.2	4055.5	4047.7	4039.8
5°	4385.0	4298.7	4230.0	4147.7	4090.8	4035.9	3990.8	3959.4	3943.7	3932.0	3924.1
7.5°	4494.8	4379.1	4249.7	4122.2	4022.2	3933.9	3877.0	3843.7	3822.1	3814.3	3808.4
10°	4645.8	4485.0	4271.2	4069.2	3920.2	3824.1	3784.9	3769.2	3771.1	3767.2	3765.3
12.5°	4816.4	4596.8	4265.3	3975.1	3810.4	3753.5	3755.5	3781.0	3810.4	3818.2	3820.2
15°	5000.7	4706.6	4208.5	3853.5	3724.1	3730.0	3781.0	3841.7	3896.7	3918.2	3922.2
17.5°	5200.8	4798.8	4104.5	3720.2	3653.5	3716.2	3810.4	3910.4	3990.8	4026.1	4035.9
20°	5424.3	4877.2	3957.5	3588.8	3586.8	3690.7	3828.0	3959.4	4061.4	4108.5	4116.3
22.5°	5661.6	4926.2	3777.0	3467.2	3518.2	3657.4	3814.3	3951.6	4059.4	4106.5	4116.3
25°	5900.9	4941.9	3579.0	3355.4	3447.6	3604.5	3747.6	3857.4	3959.4	4000.6	4008.4
27.5°	6124.4	4896.8	3390.7	3259.3	3382.9	3526.0	3622.1	3680.9	3751.5	3782.9	3788.8
30°	6351.9	4806.6	3231.9	3182.8	3310.3	3418.2	3461.3	3465.2	3492.7	3492.7	3496.6
32.5°	6581.4	4673.2	3092.6	3108.3	3220.1	3290.7	3296.6	3251.5	3218.1	3163.2	3161.3
35°	6846.1	4537.9	2978.9	3024.0	3114.2	3157.3	3139.7	3053.4	2973.0	2882.8	2878.9
37.5°	7091.2	4398.7	2882.8	2937.7	2994.6	3025.9	2984.8	2880.8	2814.1	2722.0	2708.2
40°	7293.2	4273.2	2790.6	2847.5	2874.9	2902.4	2835.7	2751.4	2761.2	2710.2	2708.2
42.5°	7410.9	4151.6	2704.3	2747.5	2765.1	2784.7	2725.9	2663.1	2716.1	2676.9	2678.8
45°	7497.2	4045.7	2625.9	2641.6	2684.7	2714.1	2659.2	2588.6	2600.4	2449.4	2414.1
47.5°	7595.2	3986.9	2551.4	2535.7	2612.2	2663.1	2578.8	2476.8	2406.2	2257.2	2243.5
50°	7699.2	3965.3	2472.9	2429.8	2521.9	2571.0	2472.9	2345.4	2253.3	2172.9	2165.0
52.5°	7734.5	3963.3	2374.9	2302.3	2394.5	2463.1	2380.7	2251.3	2141.5	2063.1	2059.1
55°	7873.7	4020.2	2249.4	2127.8	2214.1	2355.3	2294.5	2108.2	2019.9	1984.6	1980.7
57.5°	8036.5	4030.0	2051.3	1937.5	2057.2	2223.9	2147.4	1986.6	1890.5	1847.3	1843.4
60°	7969.8	3788.8	1839.5	1792.4	1923.8	2100.3	2029.7	1890.5	1778.7	1737.5	1733.6
62.5°	6073.5	2674.9	1684.6	1666.9	1780.7	1921.9	1908.1	1763.0	1657.1	1627.7	1623.8
65°	3653.5	1878.7	1535.5	1533.6	1614.0	1749.3	1766.9	1649.3	1537.5	1496.3	1496.3
67.5°	1806.2	1437.5	1366.9	1357.1	1408.1	1504.1	1578.7	1482.6	1388.4	1349.2	1343.3
70°	1276.7	1266.9	1243.3	1215.9	1225.7	1264.9	1296.3	1215.9	1115.9	1076.6	1068.8
72.5°	1104.1	1106.0	1090.4	1068.8	1060.9	1033.5	1006.0	947.2	886.4	845.2	849.1
75°	857.0	860.9	870.7	862.9	841.3	811.9	782.5	707.9	658.9	619.7	611.9
77.5°	500.1	519.7	551.1	543.2	547.1	506.0	494.2	421.6	376.5	349.1	343.2
80°	282.4	294.2	307.9	317.7	305.9	288.3	262.8	223.6	209.8	190.2	186.3
82.5°	170.6	182.4	188.3	196.1	192.2	168.7	149.0	123.5	111.8	102.0	100.0
85°	86.3	94.1	100.0	103.9	92.2	76.5	68.6	54.9	47.1	41.2	41.2
87.5°	21.6	23.5	27.5	23.5	21.6	9.8	7.8	2.0	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)