

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: P640536

Luminaire Tested: GWS-SA5E-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640536  
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-SA5E-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**

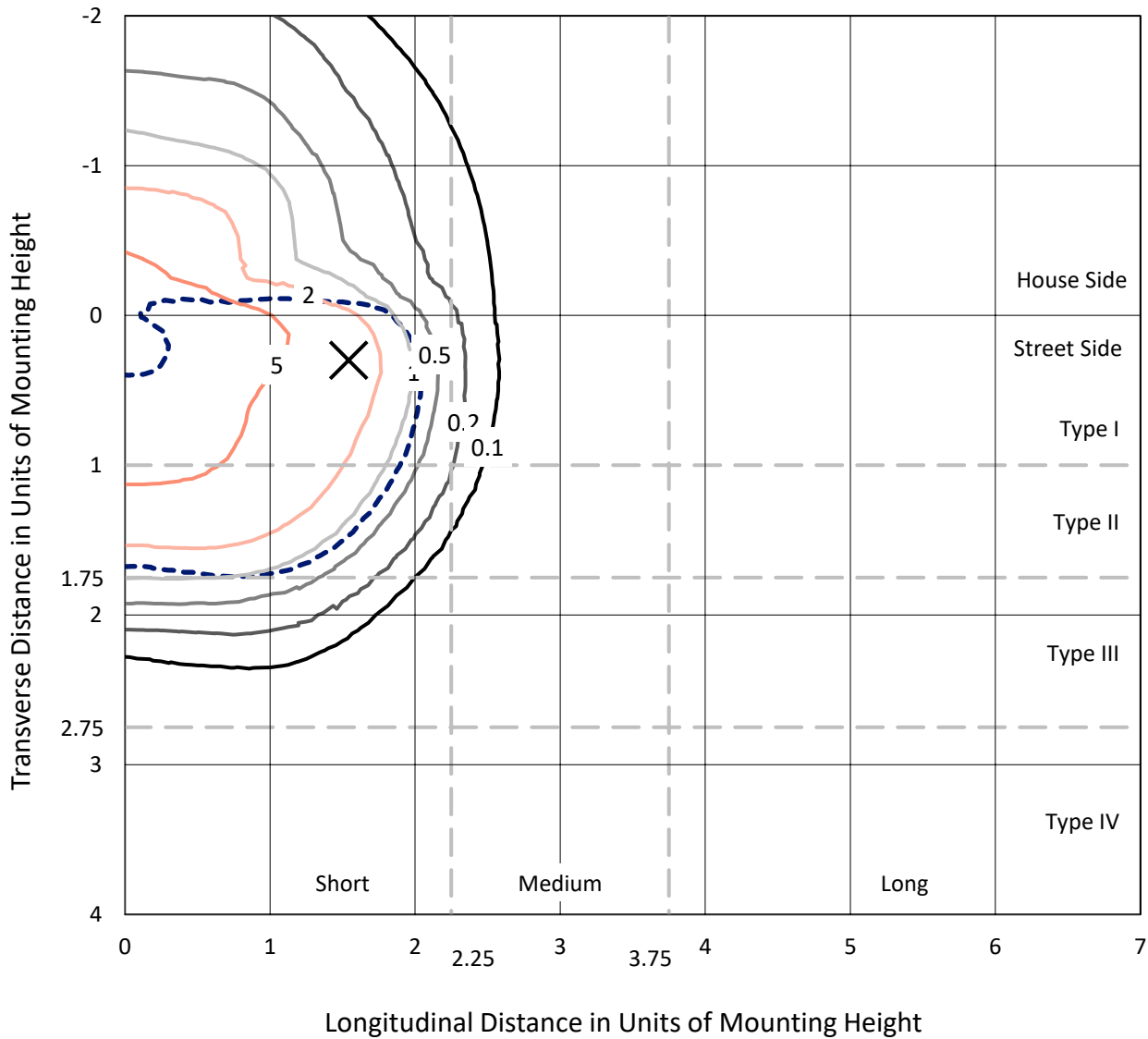
Lumens per Lamp: N/A  
Luminaire Lumens: 24243.7 lumens  
Efficiency: N/A  
Efficacy: 89.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

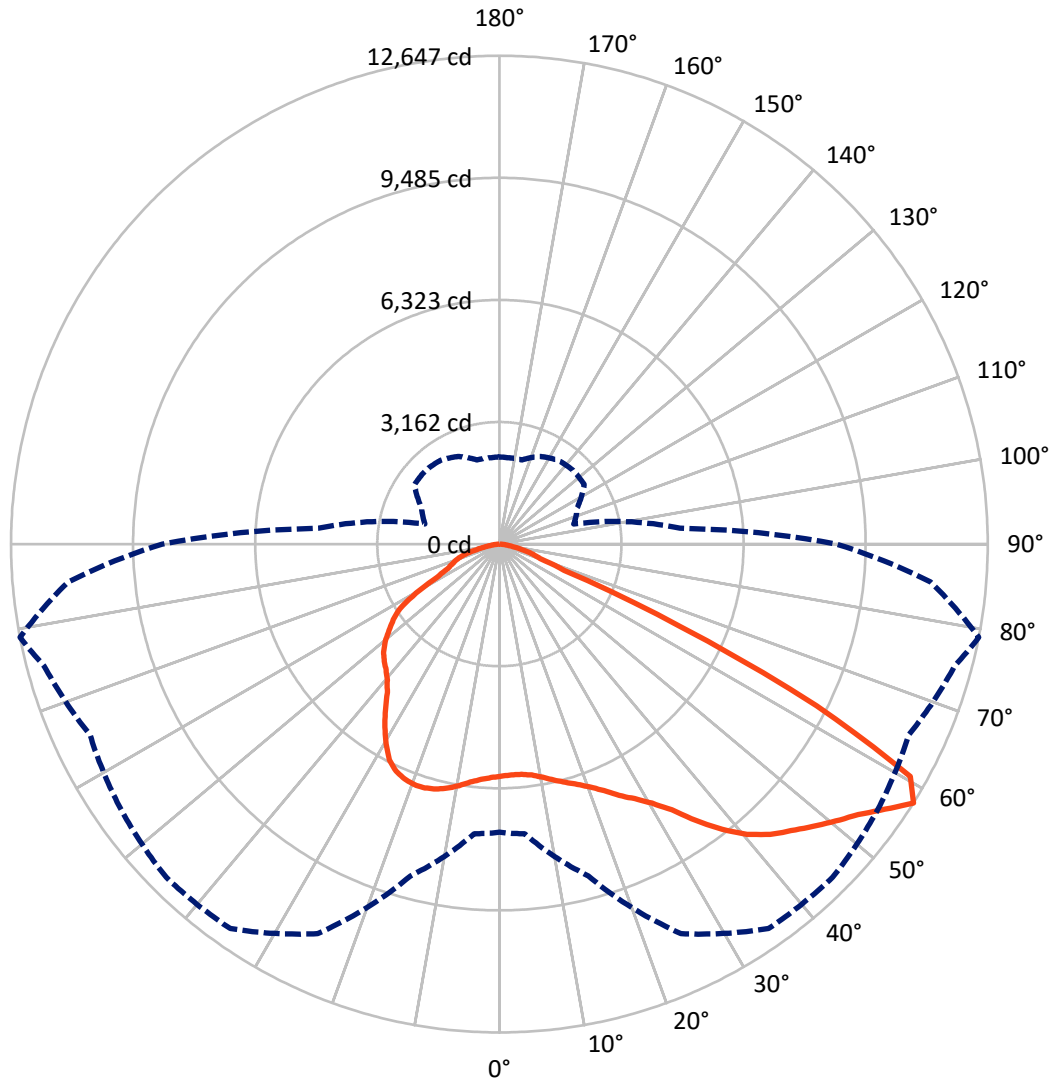
✕ Max cd  
 - - - 1/2 Max cd



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

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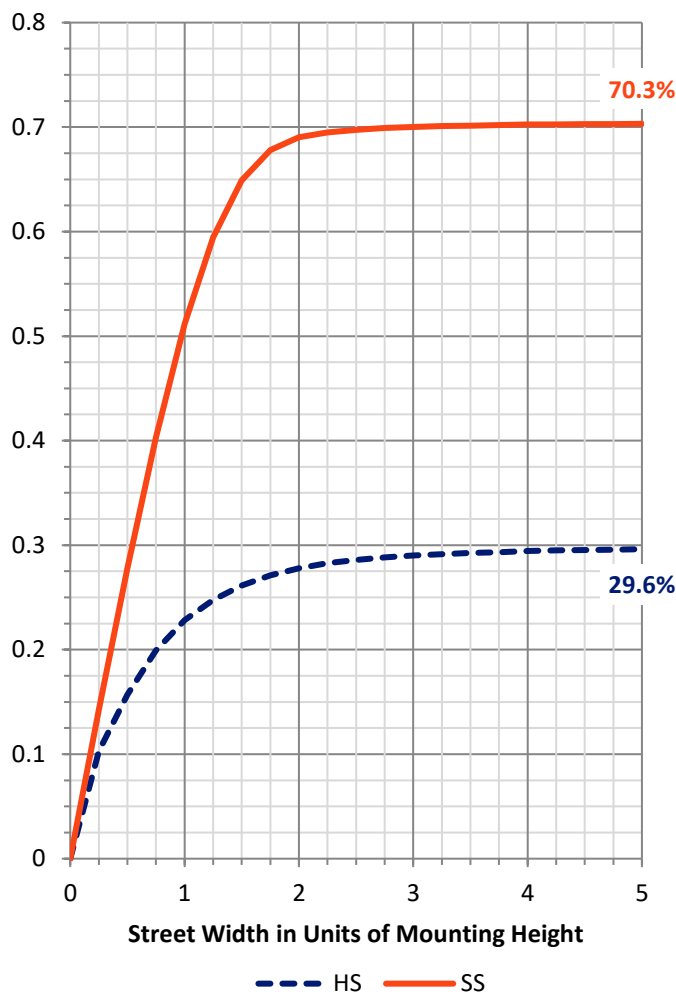
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7206.5	0.0	7206.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	17037.2	0.0	17037.2
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	24243.7	0.0	24243.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.4	2.3
10°-20°	1546.3	6.4
20°-30°	2621.0	10.8
30°-40°	4011.7	16.5
40°-50°	5349.3	22.1
50°-60°	6178.0	25.5
60°-70°	3210.3	13.2
70°-80°	682.4	2.8
80°-90°	88.4	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°	24243.7	100.0
0°-180°	24243.7	100.0

**Coefficient of Utilization**



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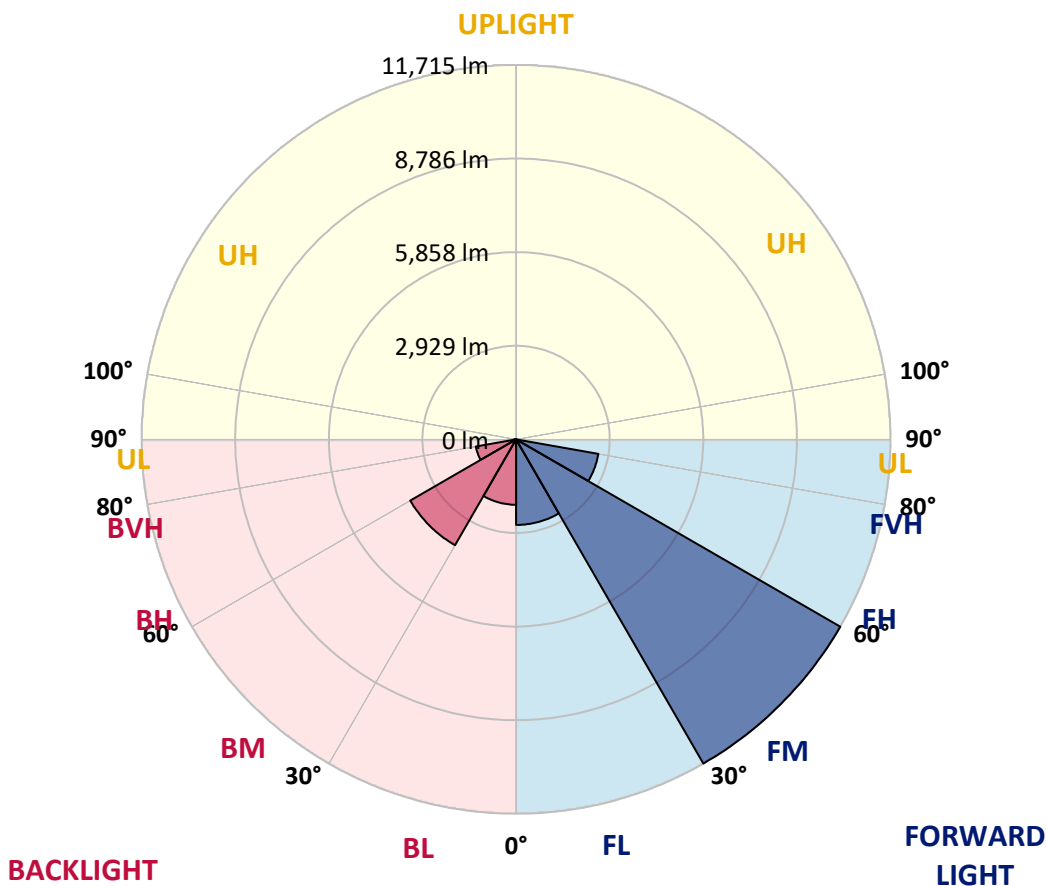
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2677.1	11.0			
FM (30°-60°)	11715.2	48.3			
FH (60°-80°)	2614.1	10.8			G2/5000
FVH (80°-90°)	30.8	0.1			G1/100
BL (0°-30°)	2046.6	8.4	B3/2500		
BM (30°-60°)	3823.7	15.8	B3/5000		
BH (60°-80°)	1278.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	57.6	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°	75°	79°	85°
0°	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1
2.5°	5734.6	5722.7	5726.7	5742.5	5802.0	5845.6	5891.2	5932.8	5972.5	5984.4	5994.3
5°	5530.4	5508.6	5514.6	5540.3	5609.7	5683.1	5764.3	5863.4	5958.6	5990.3	6031.9
7.5°	5385.7	5381.8	5391.7	5431.3	5504.7	5574.0	5679.1	5819.8	5984.4	6037.9	6111.2
10°	5193.5	5185.5	5225.2	5306.4	5427.4	5538.4	5663.2	5829.7	6059.7	6139.0	6252.0
12.5°	5040.8	5036.9	5078.5	5191.5	5346.1	5522.5	5695.0	5881.3	6160.8	6269.8	6408.6
15°	5130.0	5112.2	5114.2	5193.5	5332.2	5540.3	5774.2	5974.5	6261.9	6400.6	6579.0
17.5°	5389.7	5358.0	5334.2	5348.1	5427.4	5643.4	5895.2	6099.3	6378.8	6541.4	6759.4
20°	5748.5	5730.6	5665.2	5621.6	5639.5	5829.7	6085.5	6275.8	6531.5	6713.8	6947.7
22.5°	6230.2	6186.6	6097.3	6028.0	5974.5	6123.1	6359.0	6523.5	6743.6	6933.9	7177.7
25°	6826.8	6763.4	6622.6	6513.6	6398.6	6551.3	6761.4	6886.3	7034.9	7211.4	7443.3
27.5°	7435.4	7381.8	7225.2	7078.6	6935.8	7031.0	7280.7	7352.1	7336.2	7465.1	7663.3
30°	8083.5	8016.2	7867.5	7708.9	7524.6	7586.0	7810.0	7845.7	7677.2	7784.2	7919.0
32.5°	8767.4	8702.0	8573.2	8388.8	8180.7	8204.5	8265.9	8299.6	8139.1	8200.5	8303.6
35°	9463.2	9401.7	9270.9	9088.5	8935.9	8791.2	8636.6	8771.4	8678.2	8797.2	8789.2
37.5°	10099.5	10038.0	9956.8	9816.0	9554.4	9268.9	8912.1	9078.6	9223.3	9374.0	9348.2
40°	10529.6	10488.0	10507.8	10486.0	10149.0	9584.1	9046.9	9229.3	9623.7	9881.4	9867.6
42.5°	10900.3	10858.7	10973.6	11056.9	10660.5	9875.5	9112.3	9286.8	9879.5	10281.8	10262.0
45°	11064.8	11052.9	11243.2	11506.9	11128.3	10184.7	9280.8	9405.7	10073.7	10589.1	10513.8
47.5°	10868.6	10910.2	11284.9	11730.9	11516.8	10551.4	9625.7	9657.4	10327.4	10922.1	10710.0
50°	10478.1	10569.3	11074.7	11736.8	11800.2	10965.7	10103.4	10024.2	10668.4	11276.9	10813.1
52.5°	9909.2	10004.3	10828.9	11691.2	11962.8	11445.4	10739.7	10626.8	11098.5	11631.7	10830.9
55°	8602.9	8731.7	10266.0	11588.1	12121.4	11881.5	11457.3	11227.4	11653.6	12119.4	11007.3
57.5°	7463.1	7530.5	8894.3	11130.2	12153.1	12202.6	11968.7	11695.2	12204.6	12646.6	11205.6
60°	5476.9	5492.8	6719.8	9209.5	11179.8	12016.3	11927.1	11520.7	11943.0	12224.4	10297.7
62.5°	3094.3	3096.2	4075.5	6146.9	8351.1	9794.2	9849.7	9490.9	9136.1	9219.4	7167.8
65°	1161.6	1270.6	1861.3	3020.9	4814.8	5782.2	6012.1	6095.4	5504.7	5137.9	3843.6
67.5°	777.0	802.8	1086.3	1554.1	2142.8	2473.8	2767.2	2775.1	2029.8	1809.8	1514.4
70°	592.7	618.5	854.3	1112.0	1086.3	1003.0	1084.3	1054.5	1090.2	1120.0	1151.7
72.5°	442.0	467.8	662.1	785.0	652.2	642.2	727.5	808.8	884.1	915.8	965.3
75°	293.4	313.2	446.0	420.2	360.8	426.2	531.2	612.5	656.1	693.8	731.4
77.5°	186.3	200.2	237.9	192.3	200.2	249.8	309.2	382.6	424.2	461.9	481.7
80°	85.2	83.3	81.3	91.2	113.0	146.7	186.3	229.9	261.7	277.5	289.4
82.5°	33.7	37.7	41.6	49.6	61.4	79.3	105.1	134.8	160.6	164.5	174.4
85°	13.9	15.9	17.8	21.8	27.8	35.7	43.6	61.4	77.3	83.3	89.2
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	5.9	9.9	17.8	19.8	21.8
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1	6008.1
2.5°	6047.8	6022.0	6065.6	6095.4	6123.1	6093.4	6083.5	6057.7	6053.7	6053.7	6067.6
5°	6103.3	6085.5	6131.0	6148.9	6146.9	6081.5	6041.8	5990.3	5964.5	5964.5	5968.5
7.5°	6202.4	6192.5	6218.3	6190.5	6127.1	5994.3	5863.4	5754.4	5681.1	5643.4	5655.3
10°	6366.9	6355.0	6333.2	6230.2	6047.8	5772.3	5504.7	5306.4	5187.5	5120.1	5124.1
12.5°	6527.5	6507.7	6430.4	6202.4	5827.8	5389.7	5038.8	4816.8	4686.0	4606.7	4588.9
15°	6703.9	6652.4	6485.9	6059.7	5469.0	4921.9	4555.2	4315.3	4174.6	4127.0	4125.0
17.5°	6872.4	6781.2	6479.9	5806.0	5038.8	4432.3	4063.6	3914.9	3891.1	3912.9	3918.9
20°	7042.9	6896.2	6414.5	5455.1	4527.4	3944.6	3754.4	3815.8	3905.0	3964.5	3978.3
22.5°	7219.3	6991.3	6265.8	5003.2	3988.3	3615.6	3694.9	3829.7	3940.7	4020.0	4027.9
25°	7417.5	7080.5	6043.8	4450.1	3556.1	3524.4	3681.0	3823.7	3942.7	4033.8	4049.7
27.5°	7530.5	7082.5	5732.6	3881.2	3357.9	3488.7	3647.3	3782.1	3901.0	4000.1	4018.0
30°	7641.5	7029.0	5239.0	3419.4	3300.4	3447.1	3589.8	3714.7	3827.7	3924.8	3946.6
32.5°	7798.1	6979.4	4670.1	3153.7	3266.7	3407.5	3524.4	3635.4	3722.6	3766.2	3778.1
35°	7992.4	6916.0	4065.6	3038.8	3244.9	3375.7	3478.8	3538.3	3425.3	3401.5	3427.3
37.5°	8263.9	6856.5	3463.0	2989.2	3231.0	3363.9	3455.0	3302.4	3163.6	3108.1	3128.0
40°	8557.3	6822.8	3054.6	2949.6	3237.0	3375.7	3355.9	3129.9	2929.7	2812.8	2808.8
42.5°	8807.1	6771.3	2793.0	2923.8	3252.8	3421.3	3221.1	2977.3	2680.0	2610.6	2612.6
45°	8975.6	6640.5	2654.2	2896.0	3266.7	3431.2	3157.7	2767.2	2555.1	2511.5	2509.5
47.5°	9044.9	6402.6	2565.0	2852.4	3264.7	3350.0	3028.9	2680.0	2467.9	2456.0	2463.9
50°	8999.3	6012.1	2473.8	2767.2	3217.2	3264.7	2880.2	2602.7	2408.4	2473.8	2521.4
52.5°	8830.8	5506.6	2364.8	2650.2	3131.9	3167.6	2804.9	2555.1	2364.8	2452.0	2489.7
55°	8787.2	5096.3	2226.0	2497.6	3005.1	2995.2	2725.6	2531.3	2335.1	2301.4	2307.3
57.5°	8729.8	4695.9	1996.1	2224.1	2683.9	2699.8	2650.2	2503.6	2257.8	2247.9	2257.8
60°	7584.0	3599.7	1780.0	1918.8	2204.2	2289.5	2565.0	2452.0	2132.9	2091.3	2089.3
62.5°	4953.6	2180.5	1583.8	1673.0	1795.9	1895.0	2339.0	2303.4	1996.1	1970.3	1988.2
65°	2664.1	1554.1	1441.1	1494.6	1562.0	1637.3	1938.6	2051.6	1803.8	1712.6	1714.6
67.5°	1361.8	1322.1	1334.0	1371.7	1423.2	1460.9	1564.0	1663.1	1538.2	1460.9	1458.9
70°	1165.6	1197.3	1215.1	1236.9	1270.6	1264.7	1274.6	1292.4	1282.5	1244.8	1242.9
72.5°	993.1	1042.7	1046.6	1050.6	1062.5	1034.7	1016.9	987.2	989.1	995.1	997.1
75°	755.2	802.8	814.7	808.8	820.6	785.0	761.2	731.4	695.8	689.8	693.8
77.5°	491.6	529.3	547.1	543.1	549.1	521.3	509.4	477.7	436.1	420.2	420.2
80°	297.3	319.1	333.0	337.0	342.9	323.1	303.3	275.5	257.7	239.9	239.9
82.5°	180.4	194.3	204.2	204.2	210.1	188.3	172.5	152.6	144.7	128.8	128.8
85°	91.2	101.1	105.1	103.1	99.1	81.3	75.3	65.4	61.4	53.5	53.5
87.5°	21.8	27.8	27.8	19.8	19.8	9.9	5.9	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)