

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: P640743

Luminaire Tested: GWS-SA5E-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

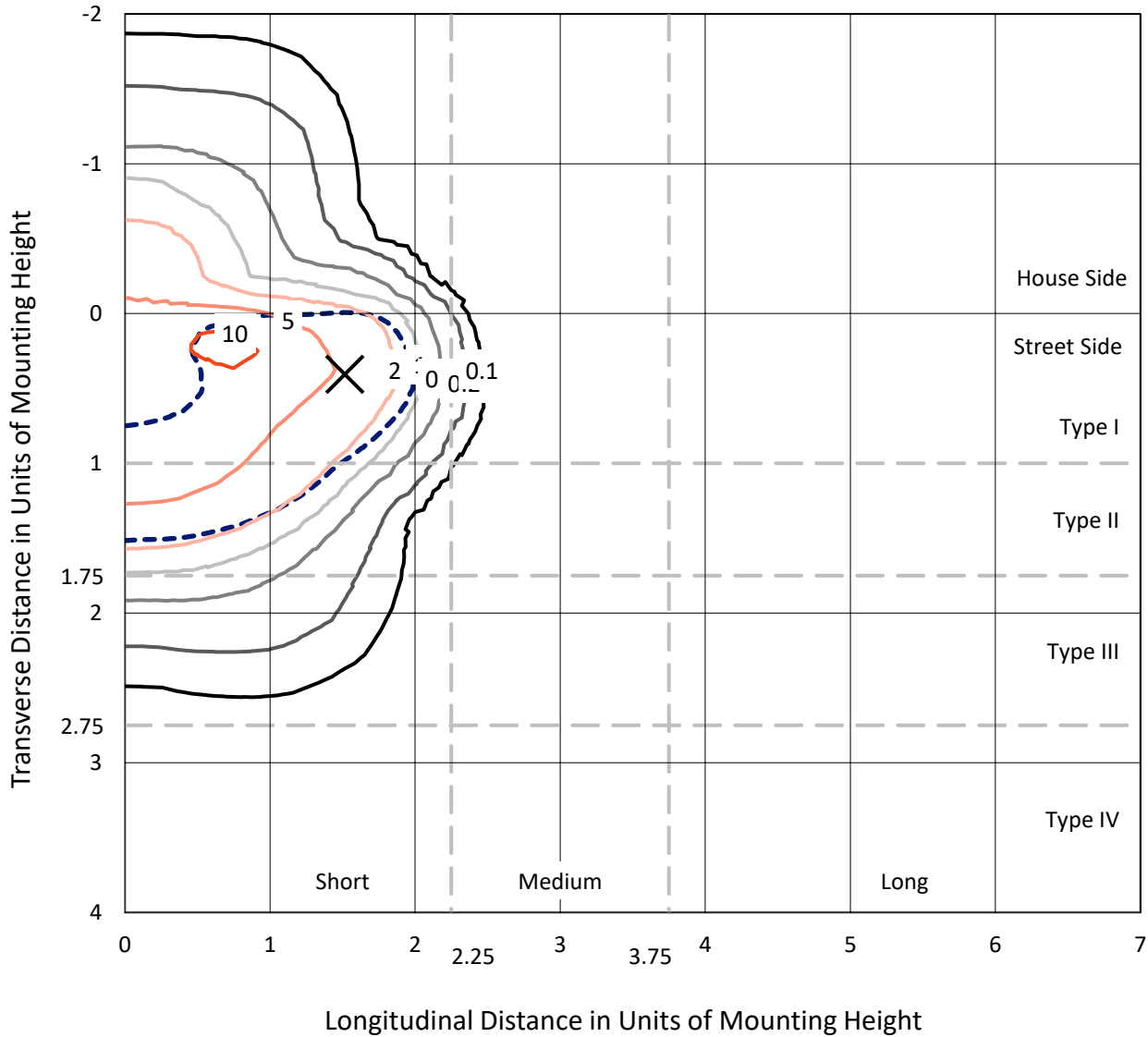
Lumens per Lamp: N/A  
Luminaire Lumens: 22299.1 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

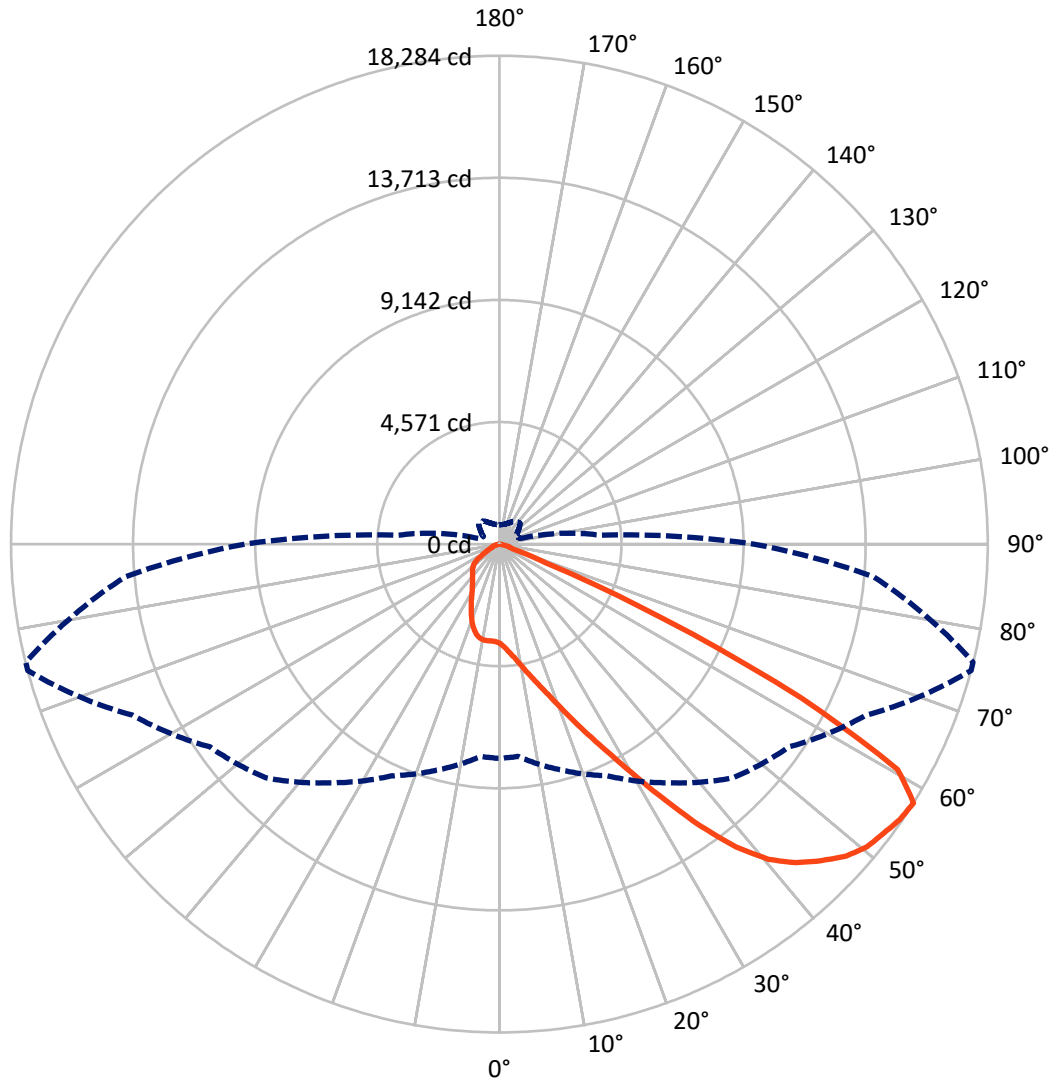
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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	3642.5	0.0	3642.5
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	18656.6	0.0	18656.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	22299.1	0.0	22299.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.5	1.7
10°-20°	1229.4	5.5
20°-30°	2251.3	10.1
30°-40°	3735.1	16.8
40°-50°	5704.5	25.6
50°-60°	6409.9	28.7
60°-70°	2364.3	10.6
70°-80°	226.0	1.0
80°-90°	0.2	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°	22299.1	100.0
0°-180°	22299.1	100.0

**Coefficient of Utilization**



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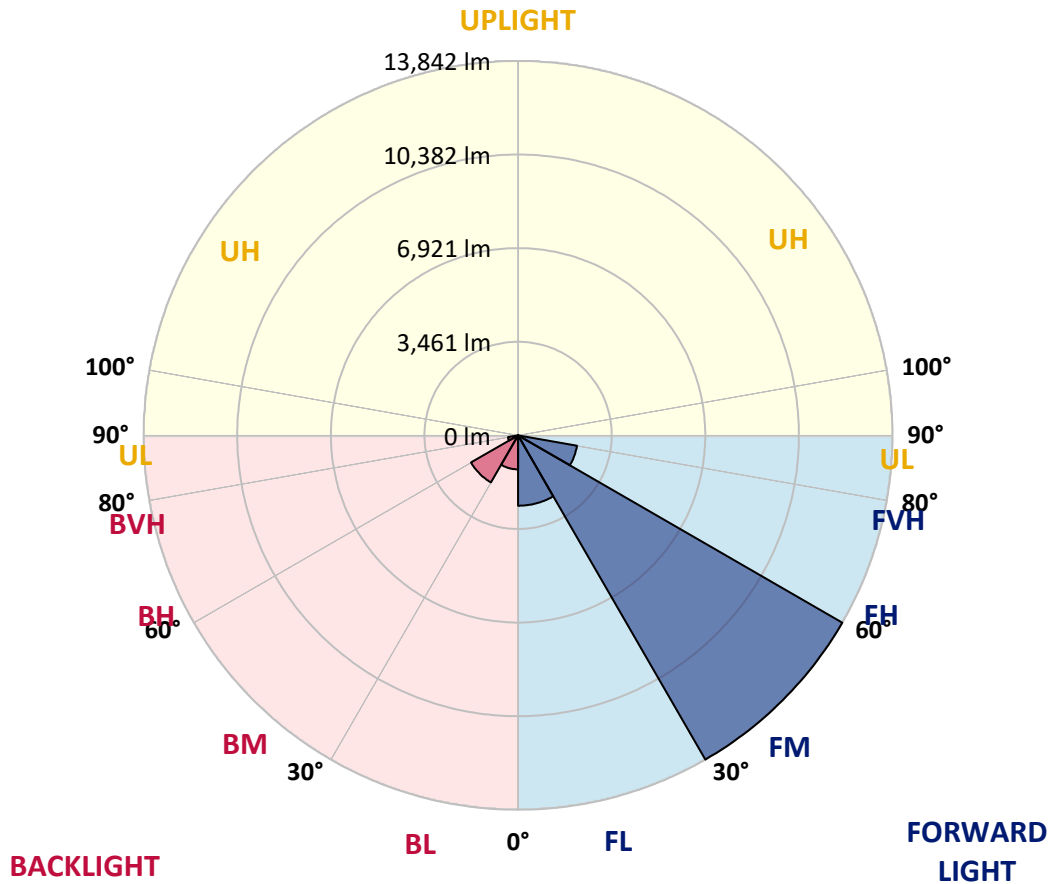
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.3	11.7			
FM (30°-60°)	13842.2	62.1			
FH (60°-80°)	2212.0	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1256.9	5.6	B3/2500		
BM (30°-60°)	2007.3	9.0	B2/2500		
BH (60°-80°)	378.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2
2.5°	4155.1	4198.2	4184.7	4157.8	4141.7	4085.2	4050.2	3947.9	3875.3	3867.2	3799.9
5°	4679.9	4671.8	4661.1	4628.8	4601.9	4513.1	4408.1	4235.9	4082.5	4063.6	3921.0
7.5°	4967.9	4973.3	4978.6	4973.3	4954.4	4887.1	4771.4	4569.6	4335.5	4319.3	4093.3
10°	5086.3	5097.1	5124.0	5175.1	5220.8	5215.5	5148.2	4941.0	4653.0	4626.1	4322.0
12.5°	5142.8	5156.3	5199.3	5296.2	5420.0	5516.9	5527.6	5341.9	5024.4	4981.3	4593.8
15°	5220.8	5234.3	5288.1	5414.6	5594.9	5786.0	5909.8	5791.4	5436.1	5390.4	4892.5
17.5°	5255.8	5274.7	5352.7	5519.6	5753.7	6047.0	6326.9	6316.1	5923.2	5888.3	5239.7
20°	5323.1	5336.6	5406.5	5586.8	5869.4	6291.9	6762.9	6932.4	6518.0	6466.9	5659.5
22.5°	5535.7	5541.1	5573.4	5686.4	5950.1	6469.5	7206.9	7651.0	7220.4	7153.1	6130.5
25°	5882.9	5880.2	5893.6	5912.5	6106.2	6649.8	7634.8	8461.0	8025.0	7952.4	6663.3
27.5°	6324.2	6324.2	6356.5	6302.7	6380.7	6873.2	8057.3	9392.1	8961.6	8859.3	7247.3
30°	6843.6	6840.9	6916.3	6830.2	6854.4	7225.8	8512.1	10406.7	10091.8	9965.4	7920.1
32.5°	7548.7	7532.5	7618.7	7500.3	7419.5	7758.6	9066.5	11467.0	11445.5	11251.7	8765.1
35°	8439.5	8412.6	8439.5	8323.7	8178.4	8504.1	9793.1	12524.6	12947.2	12742.6	9771.6
37.5°	9324.9	9411.0	9440.6	9241.4	9123.0	9448.7	10667.7	13471.9	14381.5	14168.9	10818.5
40°	10369.0	10342.1	10444.4	10221.0	10145.7	10506.3	11523.5	14177.0	15517.2	15315.4	11749.6
42.5°	11138.7	11187.1	11313.6	11189.8	11130.6	11469.7	12242.1	14588.8	16305.7	16106.6	12414.3
45°	12061.8	12096.8	12145.2	12042.9	11981.0	12314.7	12761.5	14769.1	16905.9	16690.6	12861.0
47.5°	13060.2	13087.1	13087.1	12877.2	12678.0	12815.3	13108.6	14871.3	17457.5	17250.3	13192.1
50°	13776.0	13789.5	13907.9	13759.9	13326.6	13114.0	13267.4	14970.9	17823.5	17629.8	13299.7
52.5°	13140.9	13124.8	13515.0	13821.8	13937.5	13515.0	13541.9	15116.2	18001.2	17834.3	13385.8
55°	11066.0	11039.1	11588.1	12333.6	13353.5	13894.4	13872.9	15202.3	18197.6	18095.3	13698.0
57.5°	8022.3	7976.6	8740.9	9569.8	10907.3	12373.9	13235.1	15153.9	18283.7	18275.6	14061.3
60°	4822.6	4784.9	5506.1	6378.0	7411.4	8886.2	10315.2	13574.2	17131.9	17148.1	13116.7
62.5°	2968.3	3003.3	3654.6	4098.6	4483.5	4927.5	5753.7	9131.1	12691.5	12796.5	9217.2
65°	1996.8	2023.8	2626.6	3186.3	3186.3	2605.0	2236.4	4365.1	6771.0	6593.3	4359.7
67.5°	1340.2	1369.8	1846.1	2500.1	2594.3	1816.5	906.9	1302.5	1886.5	1830.0	1079.2
70°	788.5	820.8	1229.9	1714.3	1889.2	1264.8	605.5	551.7	535.5	519.4	419.8
72.5°	352.5	366.0	627.0	871.9	796.6	532.8	427.9	441.3	417.1	409.1	341.8
75°	107.6	113.0	161.5	188.4	191.1	191.1	258.4	347.2	328.3	331.0	263.7
77.5°	26.9	26.9	43.1	40.4	21.5	18.8	48.4	78.0	80.7	72.7	53.8
80°	0.0	0.0	0.0	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2	3719.2
2.5°	3770.3	3700.3	3654.6	3590.0	3544.3	3495.8	3452.8	3417.8	3398.9	3393.5	3396.2
5°	3856.4	3746.1	3638.4	3514.7	3428.5	3347.8	3283.2	3232.1	3207.9	3199.8	3199.8
7.5°	3988.3	3834.9	3643.8	3450.1	3304.7	3178.3	3102.9	3046.4	3024.9	3019.5	3003.3
10°	4160.5	3950.6	3635.8	3334.3	3129.8	2997.9	2944.1	2928.0	2936.1	2938.7	2936.1
12.5°	4367.7	4071.7	3584.6	3164.8	2944.1	2863.4	2868.8	2911.8	2960.3	2984.5	2989.9
15°	4588.4	4182.1	3468.9	2963.0	2785.3	2782.7	2860.7	2960.3	3054.5	3094.8	3105.6
17.5°	4836.0	4270.9	3291.3	2747.7	2648.1	2726.1	2866.1	3019.5	3146.0	3213.2	3226.7
20°	5107.8	4343.5	3065.2	2545.8	2527.0	2666.9	2860.7	3049.1	3205.2	3280.5	3294.0
22.5°	5390.4	4394.7	2804.2	2360.1	2416.7	2599.7	2809.6	2992.6	3140.6	3226.7	3237.5
25°	5713.3	4400.0	2537.8	2204.1	2314.4	2508.2	2685.8	2836.5	2960.3	3035.6	3043.7
27.5°	5995.9	4335.5	2300.9	2077.6	2220.2	2395.1	2513.5	2597.0	2683.1	2726.1	2728.8
30°	6321.5	4222.4	2077.6	1975.3	2123.3	2255.2	2314.4	2333.2	2341.3	2349.4	2338.6
32.5°	6709.1	4085.2	1910.7	1875.7	2013.0	2101.8	2117.9	2080.3	2034.5	1969.9	1953.8
35°	7185.4	3961.4	1773.5	1778.9	1891.9	1945.7	1932.3	1851.5	1762.7	1684.7	1671.2
37.5°	7702.1	3856.4	1668.5	1684.7	1760.0	1797.7	1757.3	1668.5	1628.2	1560.9	1563.6
40°	8159.6	3770.3	1574.3	1590.5	1625.5	1660.4	1595.9	1536.7	1612.0	1606.6	1612.0
42.5°	8485.2	3697.7	1493.6	1485.5	1509.7	1534.0	1485.5	1455.9	1582.4	1547.4	1566.3
45°	8676.3	3630.4	1426.3	1377.9	1415.5	1458.6	1426.3	1388.6	1431.7	1270.2	1256.8
47.5°	8805.5	3592.7	1367.1	1272.9	1340.2	1415.5	1348.3	1256.8	1194.9	1054.9	1044.2
50°	8818.9	3573.9	1297.1	1165.3	1251.4	1332.1	1254.1	1127.6	1038.8	976.9	968.8
52.5°	8888.9	3611.5	1200.3	1028.0	1122.2	1251.4	1197.6	1071.1	950.0	896.2	885.4
55°	9201.1	3770.3	1038.8	839.6	976.9	1189.5	1151.8	955.4	839.6	807.3	799.3
57.5°	9524.0	3802.6	818.1	664.7	850.4	1100.7	1052.2	880.0	767.0	729.3	721.2
60°	8708.6	3132.5	613.6	549.0	750.8	1017.3	974.2	834.3	702.4	656.6	648.6
62.5°	5721.4	1692.7	487.1	465.6	632.4	861.2	888.1	753.5	627.0	578.6	575.9
65°	2637.3	785.8	374.1	368.7	495.2	686.2	764.3	659.3	530.2	487.1	487.1
67.5°	718.5	390.2	293.3	271.8	336.4	460.2	557.1	492.5	376.8	325.6	322.9
70°	357.9	314.9	263.7	234.1	242.2	285.3	328.3	274.5	191.1	156.1	153.4
72.5°	293.3	258.4	223.4	199.1	183.0	174.9	169.5	137.2	88.8	67.3	64.6
75°	218.0	185.7	158.8	129.2	110.3	102.3	91.5	67.3	37.7	21.5	18.8
77.5°	48.4	45.7	43.1	32.3	29.6	24.2	18.8	13.5	5.4	0.0	0.0
80°	2.7	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)