

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: P642728

Luminaire Tested: GWS-SA6D-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

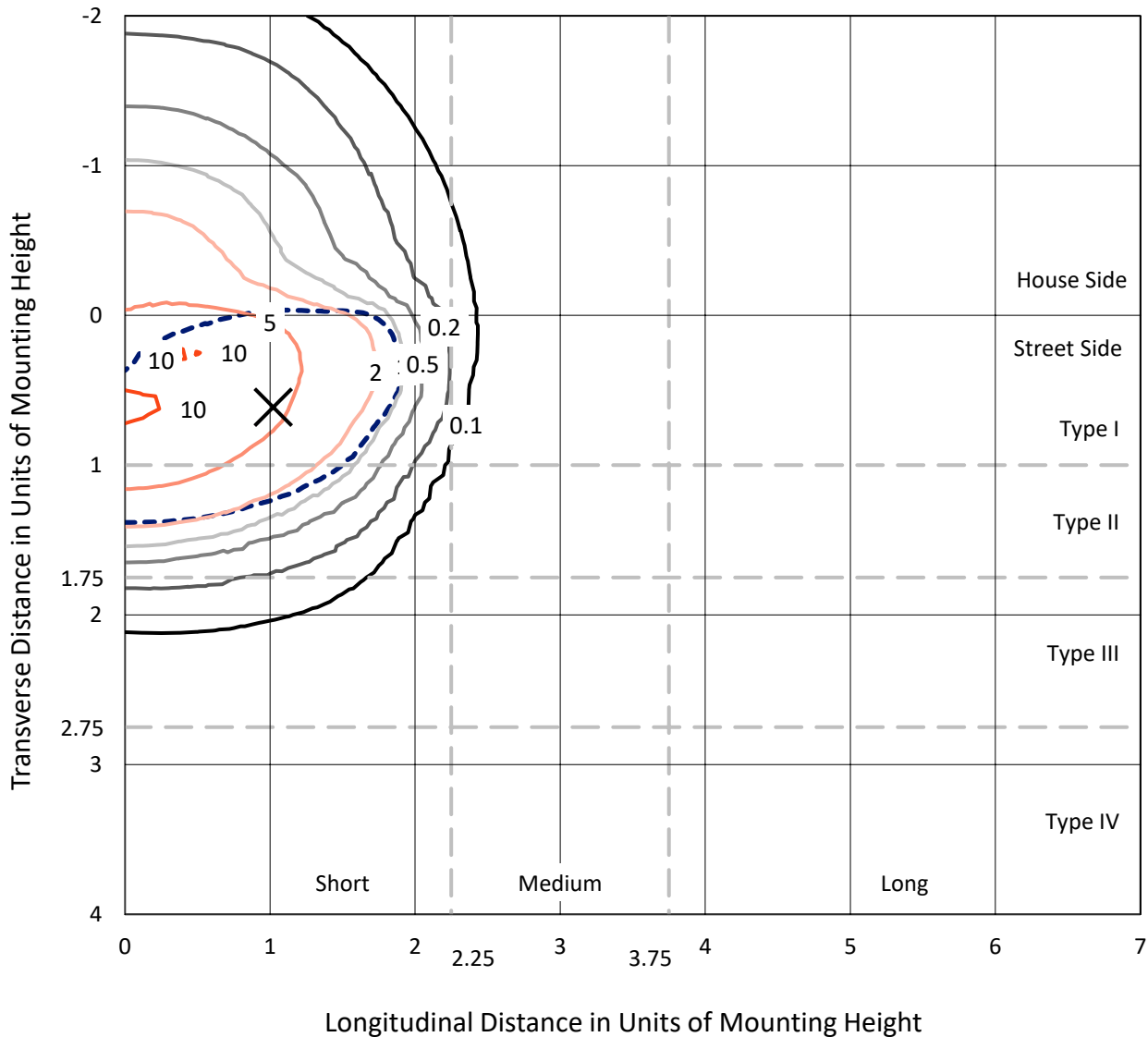
Lumens per Lamp: N/A  
Luminaire Lumens: 31526.8 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

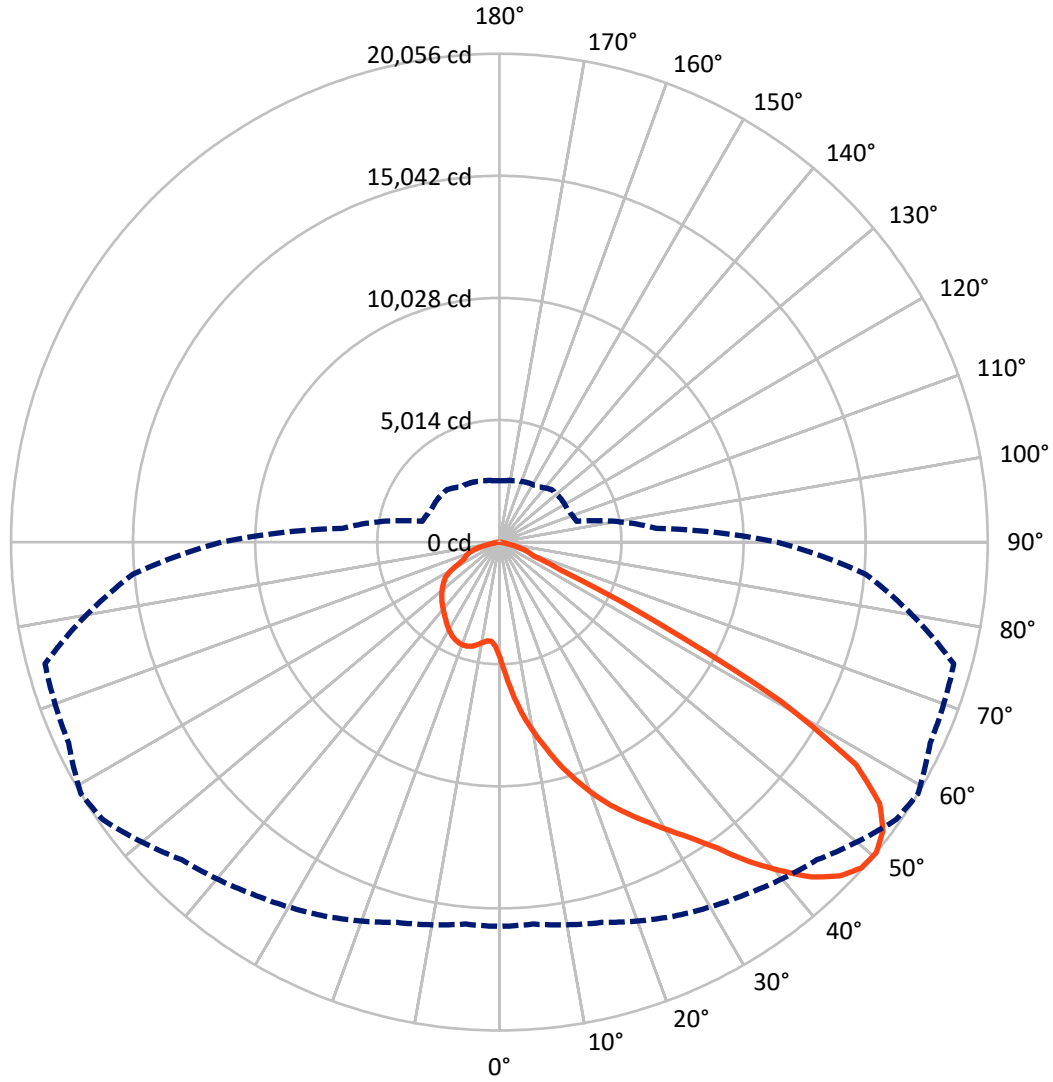
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7251.8	0.0	7251.8
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	24275.0	0.0	24275.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	31526.8	0.0	31526.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.8	1.7
10°-20°	1945.2	6.2
20°-30°	3683.4	11.7
30°-40°	6108.3	19.4
40°-50°	8344.3	26.5
50°-60°	7574.4	24.0
60°-70°	2522.4	8.0
70°-80°	735.7	2.3
80°-90°	77.3	0.2
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°	31526.8	100.0
0°-180°	31526.8	100.0

**Coefficient of Utilization**



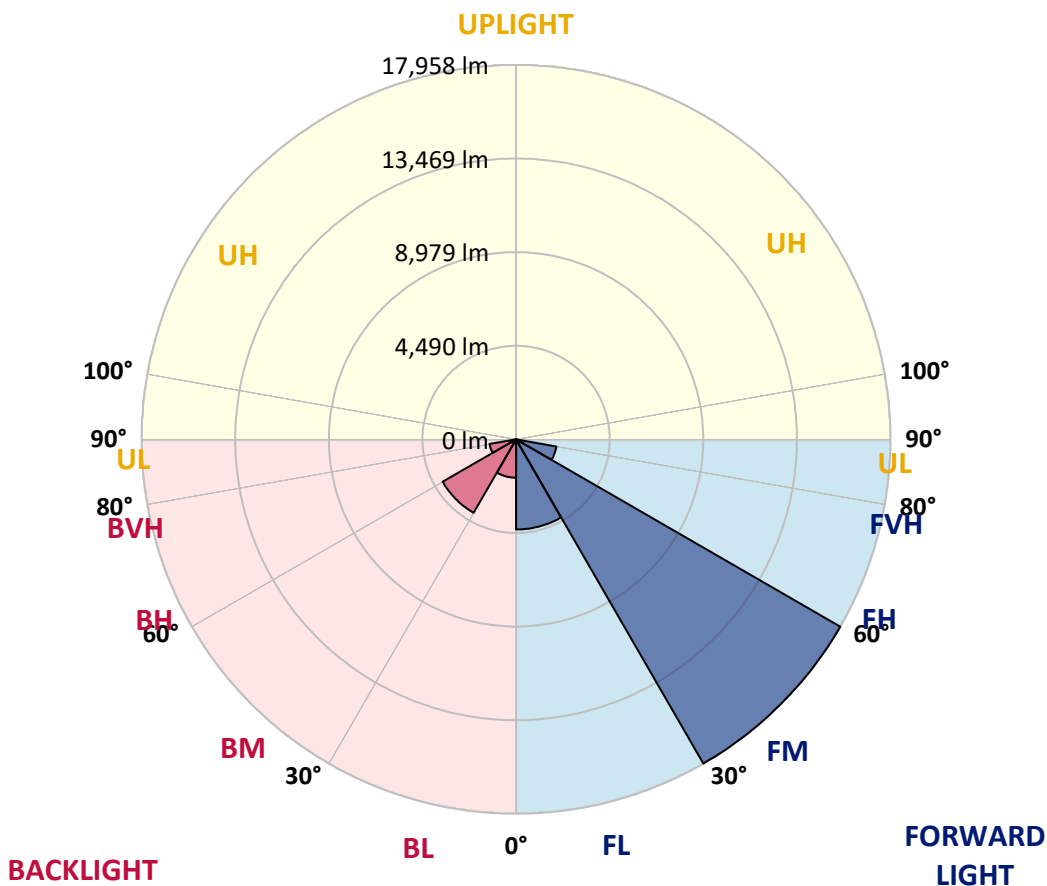
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4323.1	13.7			
FM (30°-60°)	17958.1	57.0			
FH (60°-80°)	1963.7	6.2			G2/5000
FVH (80°-90°)	30.2	0.1			G1/100
BL (0°-30°)	1841.4	5.8	B3/2500		
BM (30°-60°)	4068.9	12.9	B3/5000		
BH (60°-80°)	1294.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	47.1	0.1			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°	59°	65°	75°	85°
0°	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5
2.5°	6188.9	6235.2	6163.3	6168.4	5988.6	5906.5	5675.3	5539.2	5449.4	5197.7	4969.1
5°	7437.0	7383.1	7326.6	7293.2	7136.6	6915.7	6628.1	6399.5	6188.9	5695.9	5220.8
7.5°	8202.3	8174.0	8135.5	8115.0	7960.9	7729.8	7442.1	7247.0	6941.4	6273.7	5526.4
10°	8852.0	8818.6	8795.5	8810.9	8685.1	8536.1	8222.8	7999.4	7655.3	6884.9	5896.2
12.5°	9355.3	9373.3	9381.0	9463.2	9409.3	9319.4	8995.8	8759.5	8376.9	7529.5	6330.2
15°	9753.4	9748.2	9838.1	9994.8	10082.1	10025.6	9766.2	9568.5	9101.1	8163.8	6797.6
17.5°	9845.8	9851.0	9992.2	10267.0	10552.0	10690.7	10544.3	10308.1	9845.8	8790.4	7282.9
20°	9920.3	9930.6	10076.9	10390.2	10806.3	11194.0	11217.1	11047.7	10649.6	9468.3	7776.0
22.5°	10390.2	10413.4	10451.9	10649.6	11024.5	11515.0	11784.7	11748.7	11414.9	10179.7	8307.6
25°	11625.5	11556.1	11368.7	11312.2	11456.0	11854.0	12313.7	12383.0	12218.7	10962.9	8880.2
27.5°	13150.9	13076.4	12799.1	12506.3	12195.6	12334.2	12824.7	13032.7	13035.3	11825.8	9455.5
30°	14535.0	14476.0	14250.0	13831.4	13294.7	13094.4	13456.5	13736.4	13903.3	12822.2	10110.3
32.5°	15718.9	15665.0	15359.4	15017.8	14494.0	14090.8	14221.7	14491.4	14881.7	14111.3	10924.4
35°	16715.3	16661.4	16368.6	16024.5	15539.1	15297.7	15251.5	15436.4	15942.3	15457.0	11859.2
37.5°	17524.2	17470.3	17164.7	16841.1	16471.3	16486.7	16556.1	16646.0	16936.1	16897.6	12858.1
40°	18048.1	17991.6	17773.3	17542.2	17308.5	17493.4	17837.5	17729.7	17883.8	18060.9	13777.5
42.5°	18281.8	18209.9	18084.1	18032.7	17960.8	18248.4	18911.0	18803.1	18618.2	18836.5	14460.6
45°	18048.1	17986.5	17983.9	18140.6	18307.5	18677.3	19653.1	19565.8	19098.4	19211.4	14868.9
47.5°	17331.6	17277.7	17424.1	17835.0	18245.8	18785.1	19984.4	19999.8	19440.0	19368.1	15133.4
50°	15783.1	15747.2	16170.9	16949.0	17657.8	18448.7	19879.1	20056.3	19522.2	19319.3	15100.0
52.5°	12634.7	12801.6	13723.5	15023.0	16399.4	17858.1	19488.8	19719.9	19126.7	18998.3	14920.2
55°	8649.1	8726.2	9648.1	11545.9	13728.7	16579.2	18592.5	18949.5	18659.3	18944.3	15107.7
57.5°	4478.6	4540.3	5267.0	6951.7	9311.7	13102.1	16104.1	17275.1	17716.8	19216.6	15690.7
60°	1838.7	1890.1	2190.5	3004.6	4696.9	7629.6	11589.5	13325.5	14363.0	17549.9	13934.1
62.5°	1335.4	1361.1	1504.9	1792.5	2460.2	3739.0	6558.7	7198.2	7927.5	10998.9	8846.9
65°	1124.8	1153.0	1268.6	1443.2	1795.1	2293.2	2801.7	2817.1	3104.7	4481.2	3279.4
67.5°	942.5	968.1	1070.9	1219.8	1450.9	1628.1	1504.9	1507.4	1502.3	1625.6	1571.6
70°	734.5	755.0	857.7	1016.9	1137.6	1045.2	1176.2	1302.0	1248.1	1296.9	1371.3
72.5°	536.7	559.8	649.7	770.4	739.6	744.7	952.7	1081.1	1050.3	1104.3	1173.6
75°	387.8	403.2	449.4	385.2	405.7	490.5	670.3	739.6	770.4	816.6	878.3
77.5°	125.8	125.8	141.2	177.2	220.9	272.2	341.5	369.8	416.0	467.4	511.0
80°	64.2	66.8	79.6	97.6	123.3	156.6	200.3	213.1	236.3	264.5	282.5
82.5°	30.8	33.4	38.5	48.8	64.2	82.2	110.4	123.3	138.7	156.6	169.5
85°	7.7	7.7	10.3	15.4	20.5	30.8	41.1	48.8	61.6	74.5	82.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	7.7	10.3	12.8	15.4	20.5
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°	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5	4776.5
2.5°	4866.4	4722.6	4537.7	4381.1	4237.2	4126.8	4031.8	3985.6	3941.9	3911.1	3921.4
5°	5000.0	4753.4	4409.3	4170.5	4024.1	3949.6	3898.3	3872.6	3867.5	3846.9	3839.2
7.5°	5195.1	4843.3	4383.6	4142.2	4044.6	4006.1	3977.9	3962.5	3970.2	3949.6	3941.9
10°	5436.5	4992.2	4447.8	4234.7	4149.9	4121.7	4090.9	4070.3	4060.1	4029.2	4024.1
12.5°	5737.0	5177.1	4563.4	4352.8	4268.1	4219.3	4178.2	4142.2	4119.1	4080.6	4070.3
15°	6060.5	5382.6	4699.5	4468.4	4368.2	4296.3	4229.5	4175.6	4134.5	4083.2	4075.5
17.5°	6412.4	5598.3	4812.5	4548.0	4419.6	4324.6	4227.0	4147.4	4090.9	4024.1	4016.4
20°	6779.6	5816.6	4897.2	4586.5	4422.1	4293.7	4162.8	4057.5	3985.6	3918.8	3913.7
22.5°	7159.7	6016.9	4948.6	4576.2	4381.1	4221.8	4065.2	3947.1	3862.3	3782.7	3777.6
25°	7542.3	6209.5	4961.4	4535.1	4298.9	4114.0	3957.3	3818.7	3723.6	3633.8	3623.5
27.5°	7930.1	6371.3	4930.6	4453.0	4188.5	3988.1	3831.5	3695.4	3597.8	3507.9	3492.5
30°	8343.5	6510.0	4863.8	4345.1	4060.1	3854.6	3700.5	3597.8	3505.4	3415.5	3400.1
32.5°	8785.2	6630.6	4768.8	4214.1	3911.1	3721.1	3608.1	3515.6	3423.2	3343.6	3328.2
35°	9311.7	6710.3	4627.6	4044.6	3772.4	3623.5	3546.4	3438.6	3325.6	3238.3	3230.6
37.5°	9856.1	6771.9	4458.1	3882.9	3651.7	3567.0	3502.8	3356.4	3215.2	3109.9	3097.0
40°	10382.5	6823.3	4247.5	3731.3	3541.3	3525.9	3438.6	3256.3	3012.3	2894.2	2883.9
42.5°	10873.0	6838.7	4026.7	3569.6	3441.2	3433.5	3335.9	3053.4	2865.9	2791.4	2781.2
45°	11209.4	6825.8	3798.1	3418.0	3341.0	3299.9	3197.2	2907.0	2791.4	2724.7	2711.8
47.5°	11458.5	6759.1	3541.3	3258.8	3228.0	3171.5	2950.7	2814.6	2706.7	2639.9	2627.1
50°	11414.9	6481.7	3281.9	3104.7	3091.9	3043.1	2770.9	2699.0	2604.0	2532.1	2521.8
52.5°	11188.9	5955.3	3017.4	2935.3	2960.9	2865.9	2642.5	2560.3	2478.1	2396.0	2378.0
55°	11245.4	5575.2	2817.1	2770.9	2817.1	2601.4	2498.7	2411.4	2334.3	2254.7	2239.3
57.5°	11491.9	5200.3	2604.0	2593.7	2642.5	2398.5	2313.8	2203.4	2092.9	2028.7	2028.7
60°	9650.7	3790.4	2229.0	2254.7	2365.2	2234.2	2159.7	2046.7	1926.0	1869.5	1869.5
62.5°	5706.2	2378.0	1849.0	1820.7	1890.1	1972.2	2013.3	1920.9	1777.1	1702.6	1705.2
65°	2514.1	1730.9	1630.7	1607.6	1587.0	1643.5	1756.5	1764.2	1612.7	1525.4	1528.0
67.5°	1548.5	1566.5	1525.4	1507.4	1489.5	1479.2	1468.9	1474.0	1433.0	1353.4	1350.8
70°	1397.0	1445.8	1417.6	1402.1	1379.0	1361.1	1299.4	1199.3	1129.9	1109.4	1132.5
72.5°	1201.8	1268.6	1253.2	1245.5	1217.2	1173.6	1091.4	993.8	911.7	860.3	870.6
75°	906.5	960.4	968.1	970.7	939.9	898.8	814.1	731.9	660.0	606.1	618.9
77.5°	521.3	552.1	559.8	567.5	544.4	529.0	472.5	413.5	374.9	318.4	333.8
80°	290.2	303.0	303.0	305.6	292.8	274.8	236.3	202.9	184.9	159.2	161.8
82.5°	174.6	179.8	182.3	184.9	177.2	159.2	131.0	107.9	97.6	84.7	82.2
85°	84.7	89.9	89.9	92.4	79.6	69.3	53.9	41.1	36.0	25.7	28.2
87.5°	20.5	23.1	23.1	20.5	18.0	12.8	7.7	2.6	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)