

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: P639758

Luminaire Tested: GWS-SA5C-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639758  
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-SA5C-740-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20957.4 lumens  
Efficiency: N/A  
Efficacy: 133.1 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): 157.5  
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

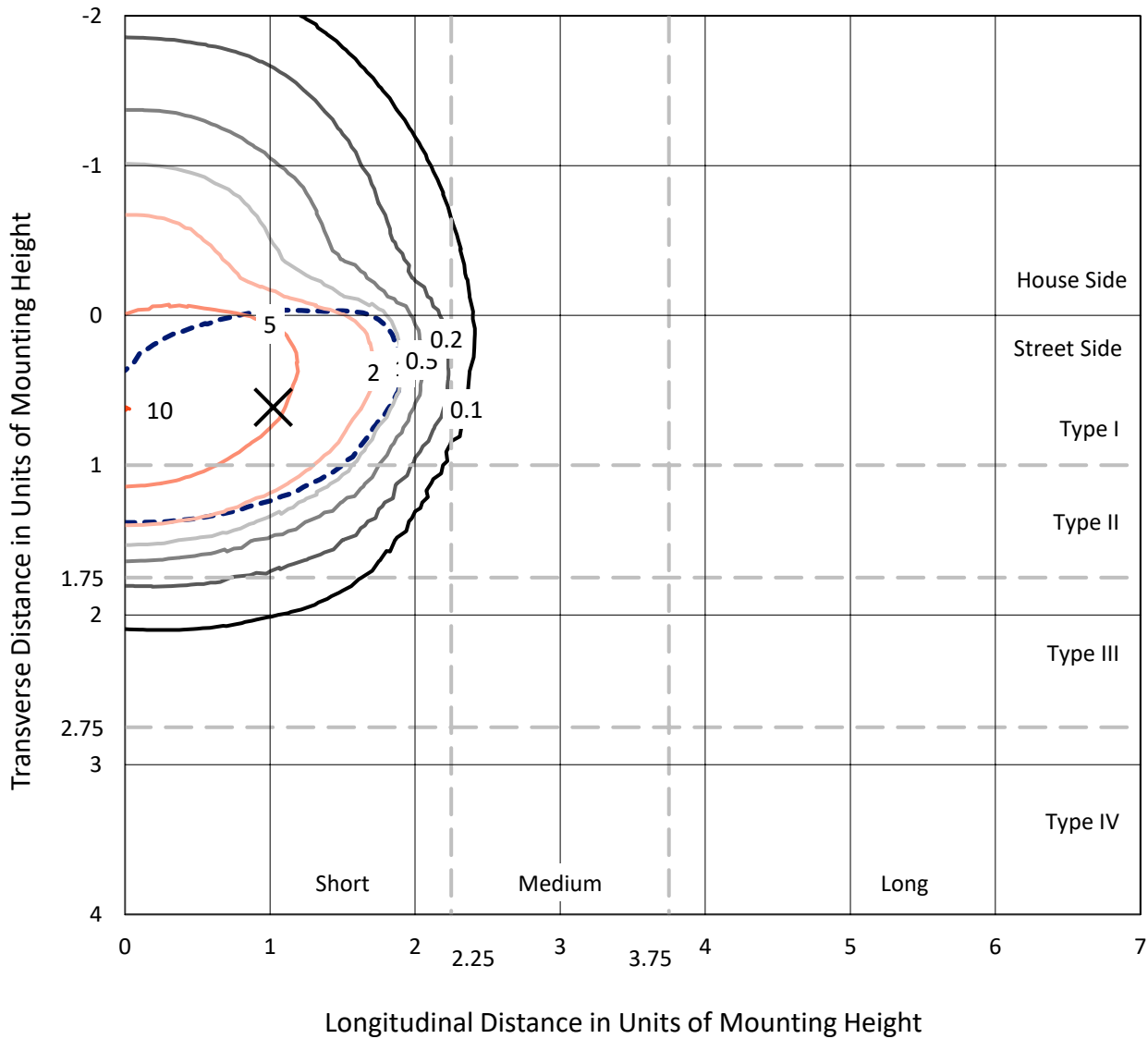


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### Iso-Footcandle Lines of Horizontal Illumination

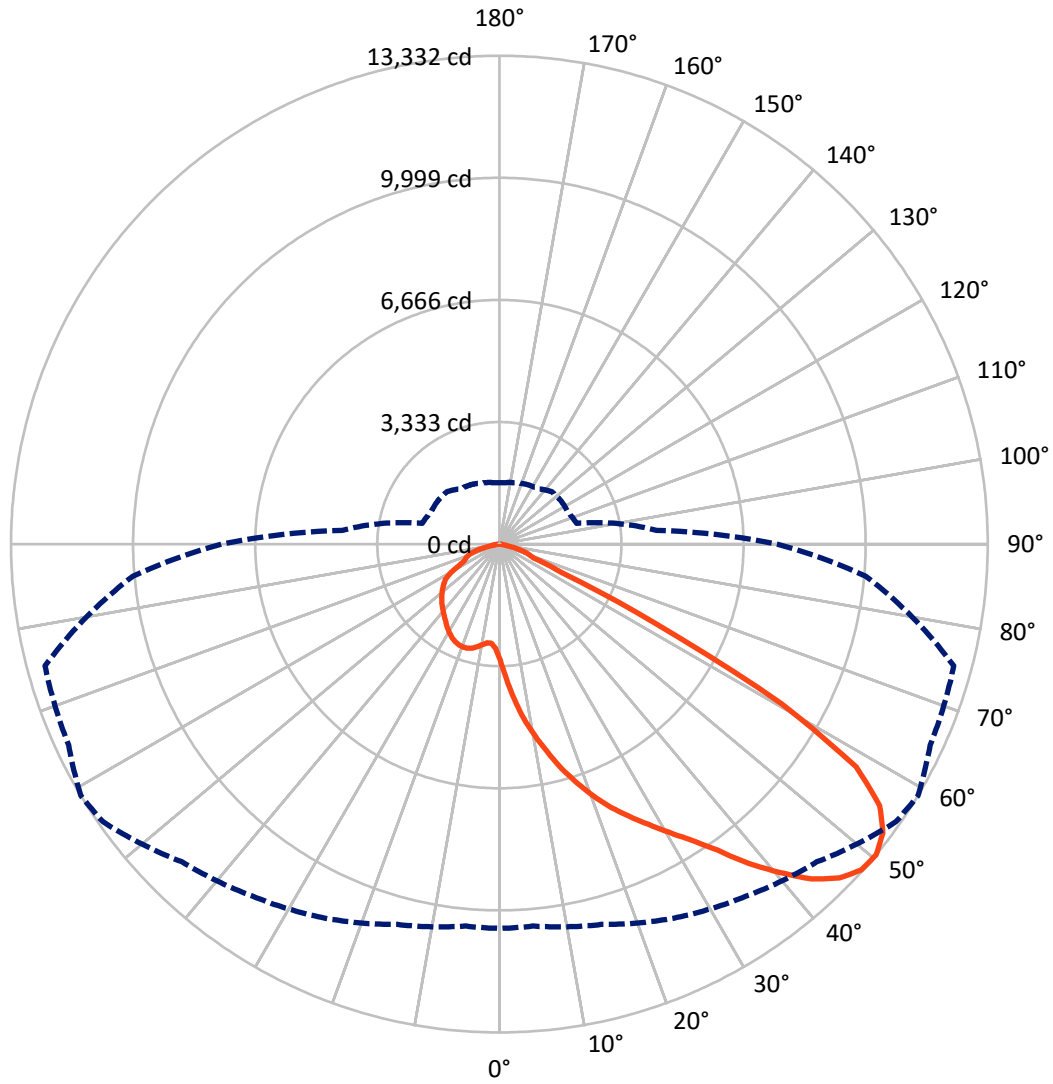
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	4820.6	0.0	4820.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	16136.8	0.0	16136.8
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	20957.4	0.0	20957.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.2	1.7
10°-20°	1293.1	6.2
20°-30°	2448.6	11.7
30°-40°	4060.5	19.4
40°-50°	5546.8	26.5
50°-60°	5035.1	24.0
60°-70°	1676.7	8.0
70°-80°	489.0	2.3
80°-90°	51.4	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°	20957.4	100.0
0°-180°	20957.4	100.0

**Coefficient of Utilization**



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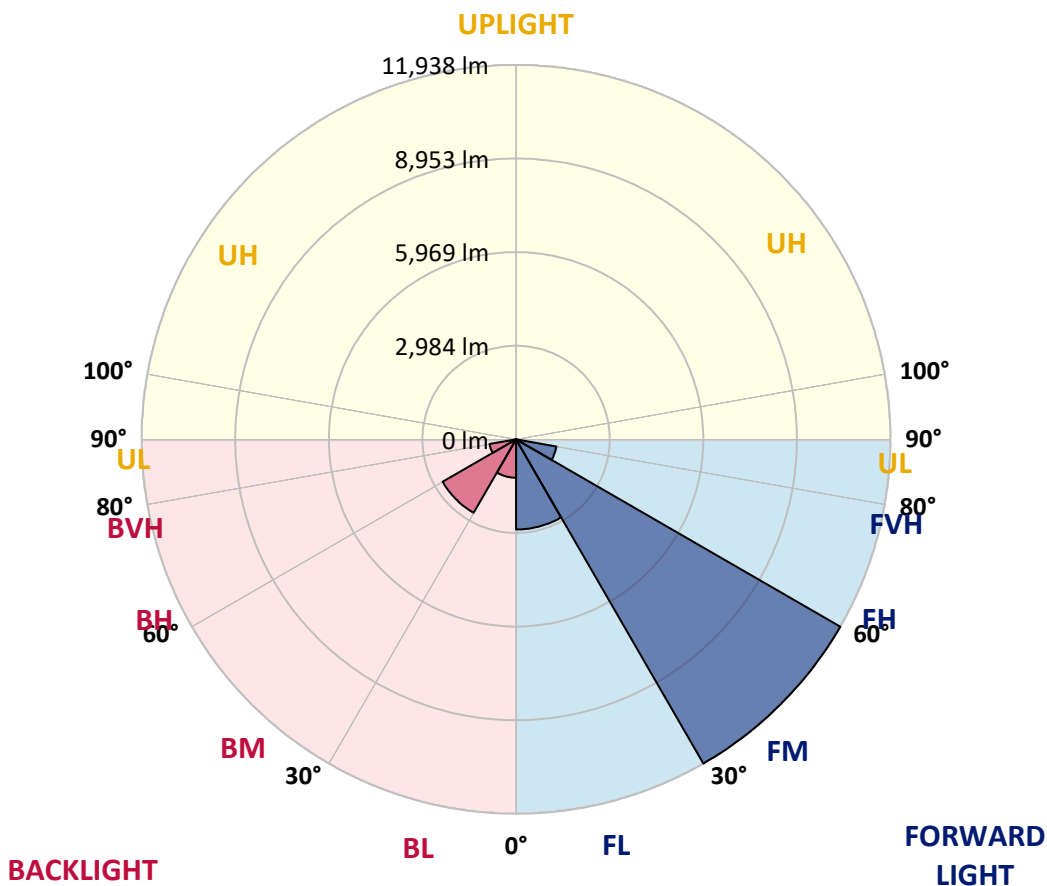
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2873.8	13.7			
FM (30°-60°)	11937.6	57.0			
FH (60°-80°)	1305.4	6.2			G1/1800
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	1224.1	5.8	B3/2500		
BM (30°-60°)	2704.8	12.9	B3/5000		
BH (60°-80°)	860.4	4.1	B2/1000		G2/1000
BVH (80°-90°)	31.3	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2
2.5°	4114.1	4144.8	4097.0	4100.4	3980.9	3926.3	3772.7	3682.2	3622.5	3455.2	3303.2
5°	4943.7	4907.9	4870.3	4848.1	4744.0	4597.2	4406.0	4254.1	4114.1	3786.3	3470.5
7.5°	5452.5	5433.7	5408.1	5394.4	5292.0	5138.4	4947.2	4817.4	4614.3	4170.4	3673.7
10°	5884.4	5862.2	5846.8	5857.0	5773.4	5674.4	5466.1	5317.6	5088.8	4576.7	3919.5
12.5°	6218.9	6230.9	6236.0	6290.6	6254.8	6195.0	5979.9	5822.9	5568.5	5005.2	4208.0
15°	6483.5	6480.1	6539.9	6644.0	6702.0	6664.5	6492.1	6360.6	6049.9	5426.9	4518.7
17.5°	6545.0	6548.4	6642.3	6825.0	7014.4	7106.6	7009.3	6852.3	6545.0	5843.4	4841.3
20°	6594.5	6601.3	6698.6	6906.9	7183.5	7441.2	7456.6	7343.9	7079.3	6294.1	5169.1
22.5°	6906.9	6922.3	6947.9	7079.3	7328.6	7654.6	7833.9	7810.0	7588.0	6766.9	5522.4
25°	7728.0	7681.9	7557.3	7519.7	7615.3	7879.9	8185.5	8231.6	8122.4	7287.6	5903.1
27.5°	8742.0	8692.5	8508.2	8313.5	8107.0	8199.2	8525.2	8663.5	8665.2	7861.2	6285.5
30°	9662.2	9622.9	9472.7	9194.4	8837.6	8704.5	8945.2	9131.2	9242.2	8523.5	6720.8
32.5°	10449.1	10413.3	10210.1	9983.1	9634.8	9366.8	9453.9	9633.1	9892.6	9380.5	7262.0
35°	11111.5	11075.6	10881.0	10652.3	10329.6	10169.2	10138.4	10261.3	10597.6	10275.0	7883.4
37.5°	11649.2	11613.4	11410.2	11195.1	10949.3	10959.5	11005.6	11065.4	11258.3	11232.7	8547.4
40°	11997.5	11959.9	11814.8	11661.2	11505.8	11628.7	11857.5	11785.8	11888.2	12006.0	9158.6
42.5°	12152.8	12105.0	12021.4	11987.2	11939.4	12130.6	12571.0	12499.3	12376.4	12521.5	9612.6
45°	11997.5	11956.5	11954.8	12058.9	12169.9	12415.7	13064.4	13006.3	12695.7	12770.8	9884.1
47.5°	11521.2	11485.3	11582.6	11855.8	12128.9	12487.4	13284.6	13294.8	12922.7	12874.9	10059.9
50°	10491.8	10467.9	10749.6	11266.8	11738.0	12263.8	13214.6	13332.4	12977.3	12842.5	10037.7
52.5°	8398.9	8509.9	9122.7	9986.5	10901.5	11871.1	12955.1	13108.8	12714.4	12629.1	9918.2
55°	5749.5	5800.7	6413.6	7675.1	9126.1	11021.0	12359.4	12596.6	12403.7	12593.2	10042.8
57.5°	2977.2	3018.1	3501.2	4621.1	6189.9	8709.6	10705.2	11483.6	11777.2	12774.2	10430.3
60°	1222.3	1256.4	1456.2	1997.3	3122.3	5071.8	7704.1	8858.1	9547.8	11666.3	9262.7
62.5°	887.7	904.8	1000.4	1191.6	1635.4	2485.5	4359.9	4785.0	5269.8	7311.5	5880.9
65°	747.7	766.5	843.3	959.4	1193.3	1524.4	1862.4	1872.7	2063.9	2978.9	2180.0
67.5°	626.5	643.6	711.9	810.9	964.5	1082.3	1000.4	1002.1	998.6	1080.6	1044.7
70°	488.2	501.9	570.2	676.0	756.2	694.8	781.8	865.5	829.6	862.1	911.6
72.5°	356.8	372.1	431.9	512.1	491.6	495.1	633.3	718.7	698.2	734.1	780.1
75°	257.8	268.0	298.7	256.1	269.7	326.1	445.6	491.6	512.1	542.9	583.8
77.5°	83.6	83.6	93.9	117.8	146.8	181.0	227.0	245.8	276.5	310.7	339.7
80°	42.7	44.4	52.9	64.9	81.9	104.1	133.2	141.7	157.1	175.8	187.8
82.5°	20.5	22.2	25.6	32.4	42.7	54.6	73.4	81.9	92.2	104.1	112.7
85°	5.1	5.1	6.8	10.2	13.7	20.5	27.3	32.4	41.0	49.5	54.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.1	6.8	8.5	10.2	13.7
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°	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2	3175.2
2.5°	3234.9	3139.3	3016.4	2912.3	2816.7	2743.3	2680.1	2649.4	2620.4	2599.9	2606.7
5°	3323.7	3159.8	2931.1	2772.3	2675.0	2625.5	2591.4	2574.3	2570.9	2557.2	2552.1
7.5°	3453.5	3219.6	2914.0	2753.5	2688.7	2663.1	2644.3	2634.0	2639.2	2625.5	2620.4
10°	3613.9	3318.6	2956.7	2815.0	2758.7	2739.9	2719.4	2705.7	2698.9	2678.4	2675.0
12.5°	3813.6	3441.5	3033.5	2893.5	2837.2	2804.8	2777.4	2753.5	2738.2	2712.6	2705.7
15°	4028.7	3578.1	3124.0	2970.3	2903.8	2856.0	2811.6	2775.7	2748.4	2714.3	2709.2
17.5°	4262.6	3721.5	3199.1	3023.3	2937.9	2874.7	2809.9	2757.0	2719.4	2675.0	2669.9
20°	4506.7	3866.6	3255.4	3048.9	2939.6	2854.3	2767.2	2697.2	2649.4	2605.0	2601.6
22.5°	4759.4	3999.7	3289.6	3042.0	2912.3	2806.5	2702.3	2623.8	2567.5	2514.5	2511.1
25°	5013.7	4127.8	3298.1	3014.7	2857.7	2734.8	2630.6	2538.4	2475.3	2415.5	2408.7
27.5°	5271.5	4235.3	3277.6	2960.1	2784.3	2651.1	2547.0	2456.5	2391.6	2331.9	2321.6
30°	5546.3	4327.5	3233.2	2888.4	2698.9	2562.3	2459.9	2391.6	2330.2	2270.4	2260.2
32.5°	5840.0	4407.7	3170.1	2801.3	2599.9	2473.6	2398.5	2337.0	2275.6	2222.6	2212.4
35°	6189.9	4460.6	3076.2	2688.7	2507.7	2408.7	2357.5	2285.8	2210.7	2152.6	2147.5
37.5°	6551.8	4501.6	2963.5	2581.1	2427.5	2371.2	2328.5	2231.2	2137.3	2067.3	2058.8
40°	6901.8	4535.7	2823.5	2480.4	2354.1	2343.8	2285.8	2164.6	2002.4	1923.9	1917.1
42.5°	7227.8	4546.0	2676.7	2372.9	2287.5	2282.4	2217.5	2029.7	1905.1	1855.6	1848.8
45°	7451.5	4537.5	2524.8	2272.1	2220.9	2193.6	2125.3	1932.4	1855.6	1811.2	1802.7
47.5°	7617.1	4493.1	2354.1	2166.3	2145.8	2108.3	1961.5	1871.0	1799.3	1754.9	1746.4
50°	7588.0	4308.7	2181.7	2063.9	2055.3	2022.9	1842.0	1794.2	1731.0	1683.2	1676.4
52.5°	7437.8	3958.8	2005.8	1951.2	1968.3	1905.1	1756.6	1702.0	1647.3	1592.7	1580.8
55°	7475.4	3706.1	1872.7	1842.0	1872.7	1729.3	1661.0	1603.0	1551.7	1498.8	1488.6
57.5°	7639.2	3456.9	1731.0	1724.2	1756.6	1594.4	1538.1	1464.7	1391.3	1348.6	1348.6
60°	6415.3	2519.7	1481.8	1498.8	1572.2	1485.2	1435.7	1360.6	1280.3	1242.8	1242.8
62.5°	3793.2	1580.8	1229.1	1210.3	1256.4	1311.0	1338.4	1276.9	1181.3	1131.8	1133.5
65°	1671.2	1150.6	1084.0	1068.6	1055.0	1092.5	1167.7	1172.8	1072.1	1014.0	1015.7
67.5°	1029.4	1041.3	1014.0	1002.1	990.1	983.3	976.5	979.9	952.6	899.6	897.9
70°	928.7	961.1	942.3	932.1	916.7	904.8	863.8	797.2	751.1	737.5	752.8
72.5°	798.9	843.3	833.1	827.9	809.2	780.1	725.5	660.6	606.0	571.9	578.7
75°	602.6	638.5	643.6	645.3	624.8	597.5	541.1	486.5	438.7	402.9	411.4
77.5°	346.5	367.0	372.1	377.3	361.9	351.7	314.1	274.8	249.2	211.7	221.9
80°	192.9	201.4	201.4	203.1	194.6	182.7	157.1	134.9	122.9	105.8	107.5
82.5°	116.1	119.5	121.2	122.9	117.8	105.8	87.1	71.7	64.9	56.3	54.6
85°	56.3	59.7	59.7	61.5	52.9	46.1	35.8	27.3	23.9	17.1	18.8
87.5°	13.7	15.4	15.4	13.7	11.9	8.5	5.1	1.7	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)