

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: P640198

Luminaire Tested: GWS-SA5D-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640198  
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-SA5D-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

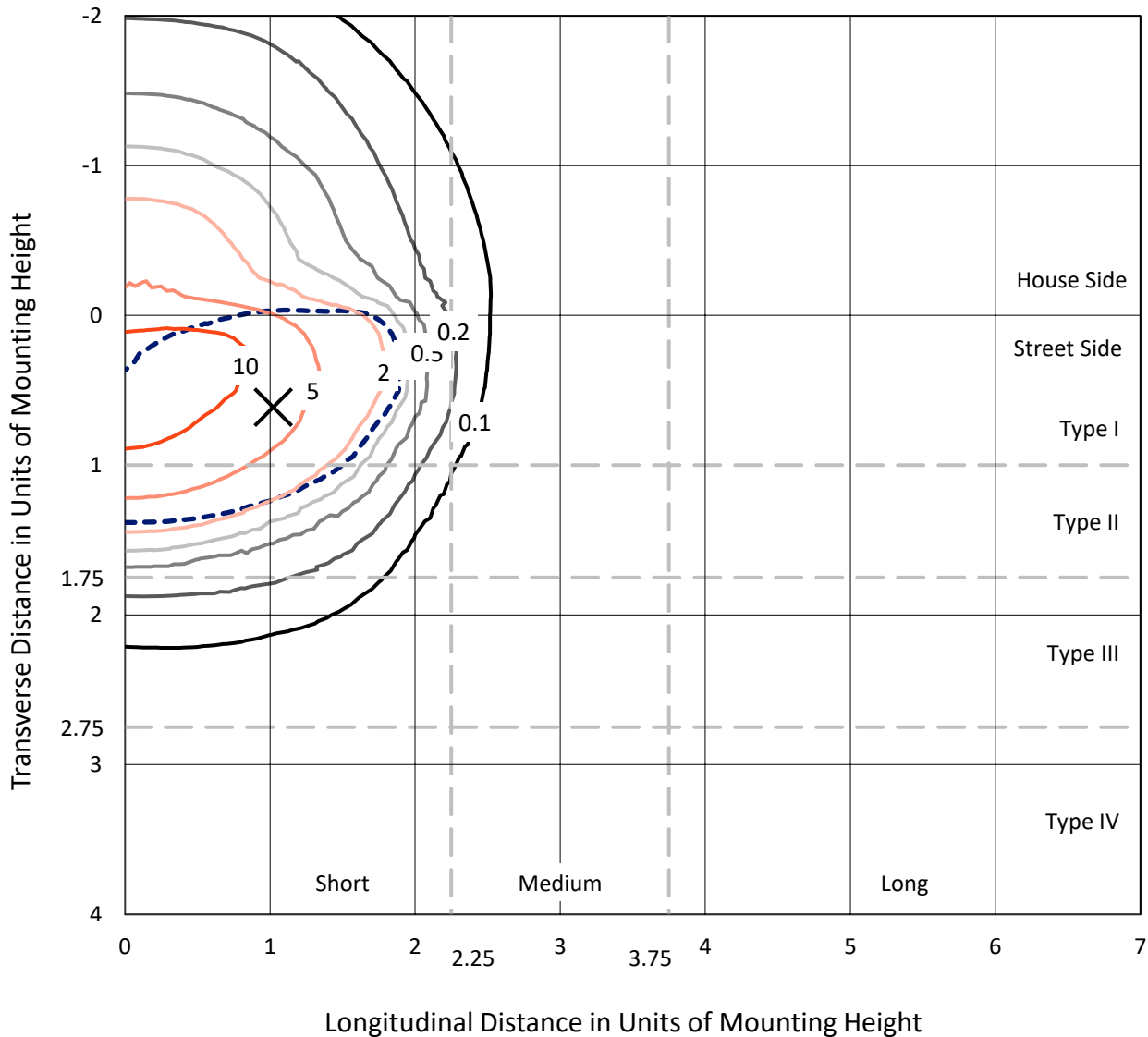
Lumens per Lamp: N/A  
Luminaire Lumens: 26076.7 lumens  
Efficiency: N/A  
Efficacy: 127.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

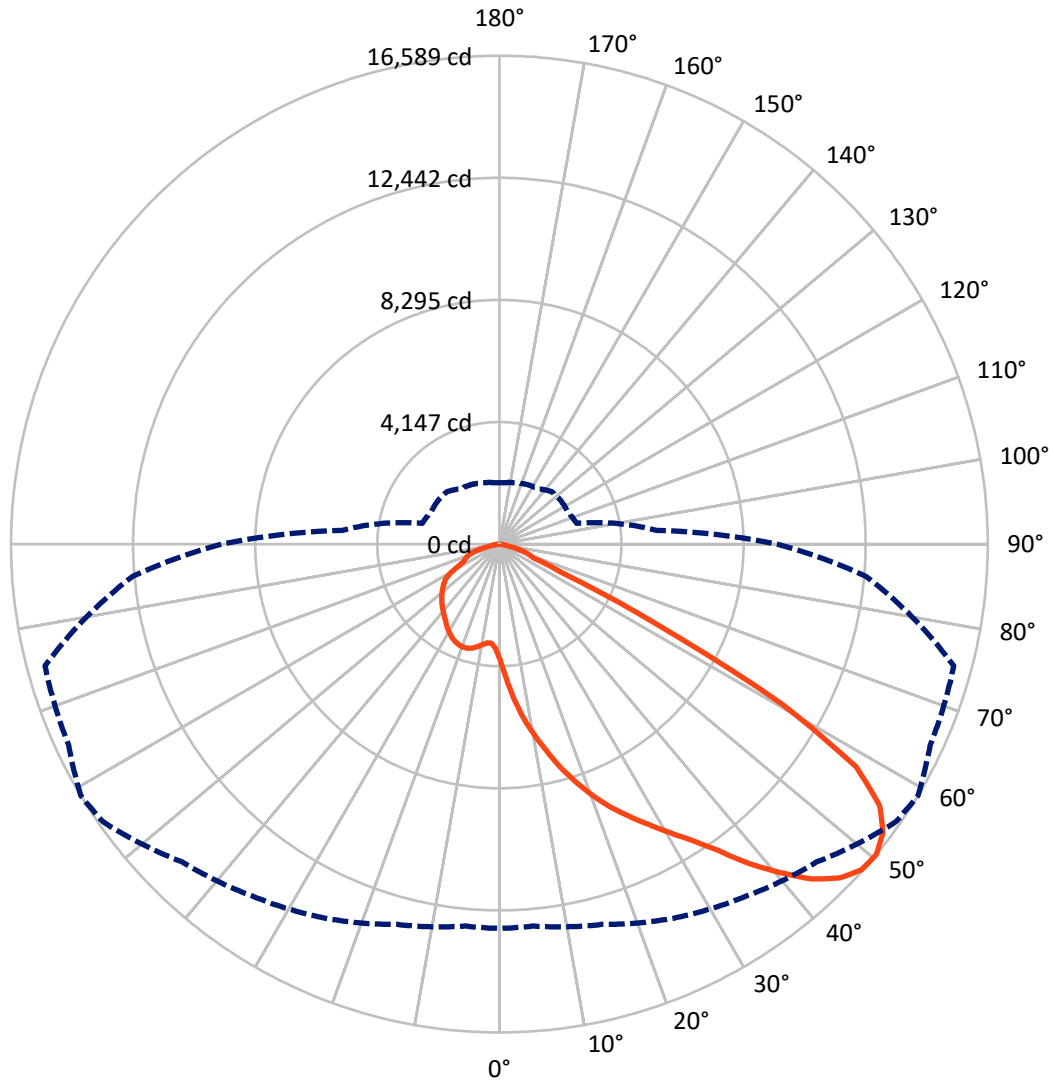
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	5998.1	0.0	5998.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	20078.6	0.0	20078.6
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	26076.7	0.0	26076.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.2	1.7
10°-20°	1608.9	6.2
20°-30°	3046.7	11.7
30°-40°	5052.4	19.4
40°-50°	6901.8	26.5
50°-60°	6265.0	24.0
60°-70°	2086.3	8.0
70°-80°	608.5	2.3
80°-90°	63.9	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°	26076.7	100.0
0°-180°	26076.7	100.0

**Coefficient of Utilization**



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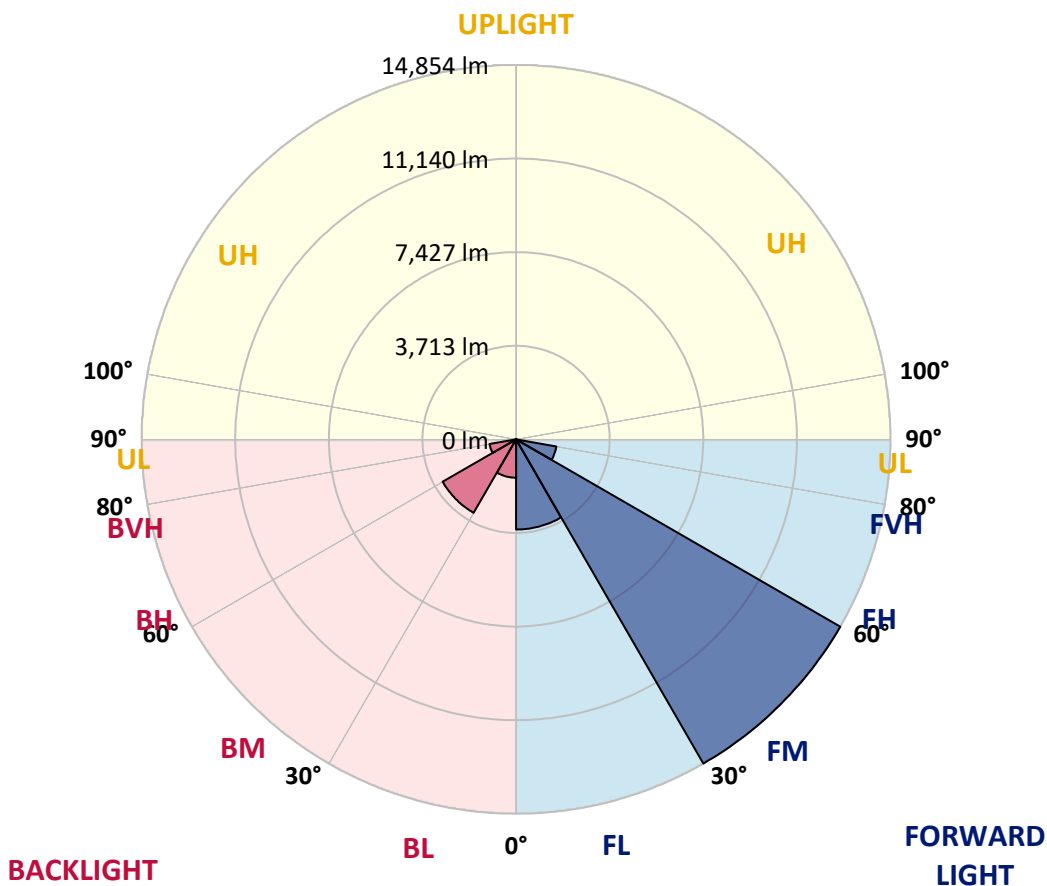
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3575.8	13.7			
FM (30°-60°)	14853.6	57.0			
FH (60°-80°)	1624.2	6.2			G1/1800
FVH (80°-90°)	25.0	0.1			G1/100
BL (0°-30°)	1523.1	5.8	B3/2500		
BM (30°-60°)	3365.5	12.9	B3/5000		
BH (60°-80°)	1070.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	38.9	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°	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8
2.5°	5119.1	5157.3	5097.8	5102.1	4953.4	4885.4	4694.2	4581.7	4507.3	4299.2	4110.1
5°	6151.4	6106.8	6060.0	6032.4	5902.8	5720.2	5482.3	5293.2	5119.1	4711.2	4318.3
7.5°	6784.3	6761.0	6729.1	6712.1	6584.7	6393.5	6155.6	5994.2	5741.4	5189.1	4571.0
10°	7321.7	7294.1	7275.0	7287.7	7183.7	7060.5	6801.3	6616.5	6331.9	5694.7	4876.9
12.5°	7738.1	7752.9	7759.3	7827.3	7782.7	7708.3	7440.7	7245.3	6928.8	6227.8	5235.9
15°	8067.3	8063.0	8137.4	8267.0	8339.2	8292.4	8077.9	7914.4	7527.8	6752.5	5622.5
17.5°	8143.8	8148.0	8264.8	8492.1	8727.9	8842.6	8721.5	8526.1	8143.8	7270.8	6023.9
20°	8205.4	8213.8	8334.9	8594.1	8938.2	9258.9	9278.0	9137.8	8808.6	7831.5	6431.7
22.5°	8594.1	8613.2	8645.0	8808.6	9118.7	9524.4	9747.4	9717.7	9441.6	8419.9	6871.4
25°	9615.7	9558.4	9403.3	9356.6	9475.6	9804.8	10185.0	10242.4	10106.4	9067.7	7345.1
27.5°	10877.5	10815.9	10586.5	10344.3	10087.3	10202.0	10607.7	10779.7	10781.9	9781.4	7820.9
30°	12022.3	11973.5	11786.6	11440.3	10996.4	10830.7	11130.2	11361.7	11499.8	10605.6	8362.5
32.5°	13001.5	12956.9	12704.2	12421.7	11988.4	11654.9	11763.2	11986.2	12309.1	11671.9	9035.9
35°	13825.7	13781.1	13538.9	13254.3	12852.9	12653.2	12615.0	12767.9	13186.3	12784.9	9809.0
37.5°	14494.8	14450.2	14197.4	13929.8	13623.9	13636.6	13694.0	13768.3	14008.4	13976.5	10635.3
40°	14928.1	14881.4	14700.8	14509.6	14316.4	14469.3	14753.9	14664.7	14792.2	14938.7	11395.7
42.5°	15121.4	15061.9	14957.8	14915.3	14855.9	15093.8	15641.8	15552.6	15399.6	15580.2	11960.7
45°	14928.1	14877.1	14875.0	15004.6	15142.6	15448.5	16255.6	16183.4	15796.8	15890.3	12298.5
47.5°	14335.5	14290.9	14411.9	14751.8	15091.6	15537.7	16529.7	16542.4	16079.3	16019.9	12517.3
50°	13054.6	13024.9	13375.4	14019.0	14605.2	15259.5	16442.6	16589.1	16147.3	15979.5	12489.6
52.5°	10450.5	10588.6	11351.1	12425.9	13564.4	14770.9	16119.7	16310.9	15820.2	15714.0	12341.0
55°	7153.9	7217.7	7980.2	9549.9	11355.4	13713.1	15378.4	15673.6	15433.6	15669.4	12496.0
57.5°	3704.4	3755.4	4356.5	5749.9	7701.9	10837.1	13320.2	14288.7	14654.1	15894.6	12978.2
60°	1520.8	1563.3	1811.8	2485.2	3885.0	6310.7	9586.0	11021.9	11880.0	14516.0	11525.3
62.5°	1104.5	1125.8	1244.7	1482.6	2034.9	3092.7	5424.9	5953.8	6557.1	9097.5	7317.5
65°	930.4	953.7	1049.3	1193.7	1484.7	1896.8	2317.4	2330.1	2568.0	3706.5	2712.5
67.5°	779.5	800.8	885.7	1008.9	1200.1	1346.7	1244.7	1246.8	1242.6	1344.5	1299.9
70°	607.5	624.5	709.4	841.1	941.0	864.5	972.8	1076.9	1032.3	1072.7	1134.3
72.5°	443.9	463.1	537.4	637.2	611.7	616.0	788.0	894.2	868.8	913.4	970.7
75°	320.7	333.5	371.7	318.6	335.6	405.7	554.4	611.7	637.2	675.5	726.4
77.5°	104.1	104.1	116.8	146.6	182.7	225.2	282.5	305.9	344.1	386.6	422.7
80°	53.1	55.2	65.8	80.7	102.0	129.6	165.7	176.3	195.4	218.8	233.6
82.5°	25.5	27.6	31.9	40.4	53.1	68.0	91.3	102.0	114.7	129.6	140.2
85°	6.4	6.4	8.5	12.7	17.0	25.5	34.0	40.4	51.0	61.6	68.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	6.4	8.5	10.6	12.7	17.0
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°	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8	3950.8
2.5°	4025.1	3906.2	3753.3	3623.7	3504.7	3413.4	3334.8	3296.6	3260.5	3235.0	3243.5
5°	4135.6	3931.7	3647.1	3449.5	3328.4	3266.8	3224.4	3203.1	3198.9	3181.9	3175.5
7.5°	4297.0	4006.0	3625.8	3426.2	3345.4	3313.6	3290.2	3277.5	3283.8	3266.8	3260.5
10°	4496.7	4129.2	3678.9	3502.6	3432.5	3409.2	3383.7	3366.7	3358.2	3332.7	3328.4
12.5°	4745.2	4282.2	3774.5	3600.3	3530.2	3489.9	3455.9	3426.2	3407.0	3375.2	3366.7
15°	5012.8	4452.1	3887.1	3695.9	3613.1	3553.6	3498.4	3453.8	3419.8	3377.3	3370.9
17.5°	5303.8	4630.5	3980.5	3761.8	3655.6	3577.0	3496.2	3430.4	3383.7	3328.4	3322.1
20°	5607.6	4811.1	4050.6	3793.6	3657.7	3551.5	3443.1	3356.1	3296.6	3241.4	3237.1
22.5°	5922.0	4976.7	4093.1	3785.1	3623.7	3492.0	3362.4	3264.7	3194.6	3128.8	3124.5
25°	6238.4	5136.0	4103.7	3751.1	3555.7	3402.8	3273.2	3158.5	3079.9	3005.6	2997.1
27.5°	6559.2	5269.9	4078.2	3683.2	3464.4	3298.7	3169.1	3056.6	2975.8	2901.5	2888.8
30°	6901.2	5384.6	4023.0	3594.0	3358.2	3188.3	3060.8	2975.8	2899.4	2825.0	2812.3
32.5°	7266.5	5484.4	3944.4	3485.6	3235.0	3077.8	2984.3	2907.9	2831.4	2765.6	2752.8
35°	7701.9	5550.2	3827.6	3345.4	3120.3	2997.1	2933.4	2844.2	2750.7	2678.5	2672.1
37.5°	8152.3	5601.2	3687.4	3211.6	3020.5	2950.4	2897.3	2776.2	2659.4	2572.3	2561.7
40°	8587.7	5643.7	3513.2	3086.3	2929.1	2916.4	2844.2	2693.3	2491.6	2393.8	2385.4
42.5°	8993.4	5656.4	3330.6	2952.5	2846.3	2839.9	2759.2	2525.5	2370.5	2308.9	2300.4
45°	9271.6	5645.8	3141.5	2827.2	2763.4	2729.5	2644.5	2404.5	2308.9	2253.7	2243.0
47.5°	9477.7	5590.6	2929.1	2695.5	2670.0	2623.2	2440.6	2328.0	2238.8	2183.6	2172.9
50°	9441.6	5361.2	2714.6	2568.0	2557.4	2517.0	2291.9	2232.4	2153.8	2094.4	2085.9
52.5°	9254.7	4925.8	2495.8	2427.8	2449.1	2370.5	2185.7	2117.7	2049.7	1981.8	1966.9
55°	9301.4	4611.4	2330.1	2291.9	2330.1	2151.7	2066.7	1994.5	1930.8	1864.9	1852.2
57.5°	9505.3	4301.3	2153.8	2145.3	2185.7	1983.9	1913.8	1822.5	1731.1	1678.0	1678.0
60°	7982.3	3135.2	1843.7	1864.9	1956.3	1848.0	1786.4	1692.9	1593.1	1546.3	1546.3
62.5°	4719.7	1966.9	1529.3	1506.0	1563.3	1631.3	1665.3	1588.8	1469.9	1408.3	1410.4
65°	2079.5	1431.6	1348.8	1329.7	1312.7	1359.4	1452.9	1459.2	1333.9	1261.7	1263.8
67.5°	1280.8	1295.7	1261.7	1246.8	1232.0	1223.5	1215.0	1219.2	1185.2	1119.4	1117.3
70°	1155.5	1195.9	1172.5	1159.8	1140.6	1125.8	1074.8	991.9	934.6	917.6	936.7
72.5°	994.1	1049.3	1036.6	1030.2	1006.8	970.7	902.7	822.0	754.1	711.6	720.1
75°	749.8	794.4	800.8	802.9	777.4	743.4	673.3	605.4	545.9	501.3	511.9
77.5°	431.2	456.7	463.1	469.4	450.3	437.6	390.8	342.0	310.1	263.4	276.1
80°	240.0	250.6	250.6	252.8	242.1	227.3	195.4	167.8	152.9	131.7	133.8
82.5°	144.4	148.7	150.8	152.9	146.6	131.7	108.3	89.2	80.7	70.1	68.0
85°	70.1	74.3	74.3	76.5	65.8	57.4	44.6	34.0	29.7	21.2	23.4
87.5°	17.0	19.1	19.1	17.0	14.9	10.6	6.4	2.1	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)