

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: P639208

Luminaire Tested: GWS-SA5B-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639208  
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-SA5B-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: 15412.8 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
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

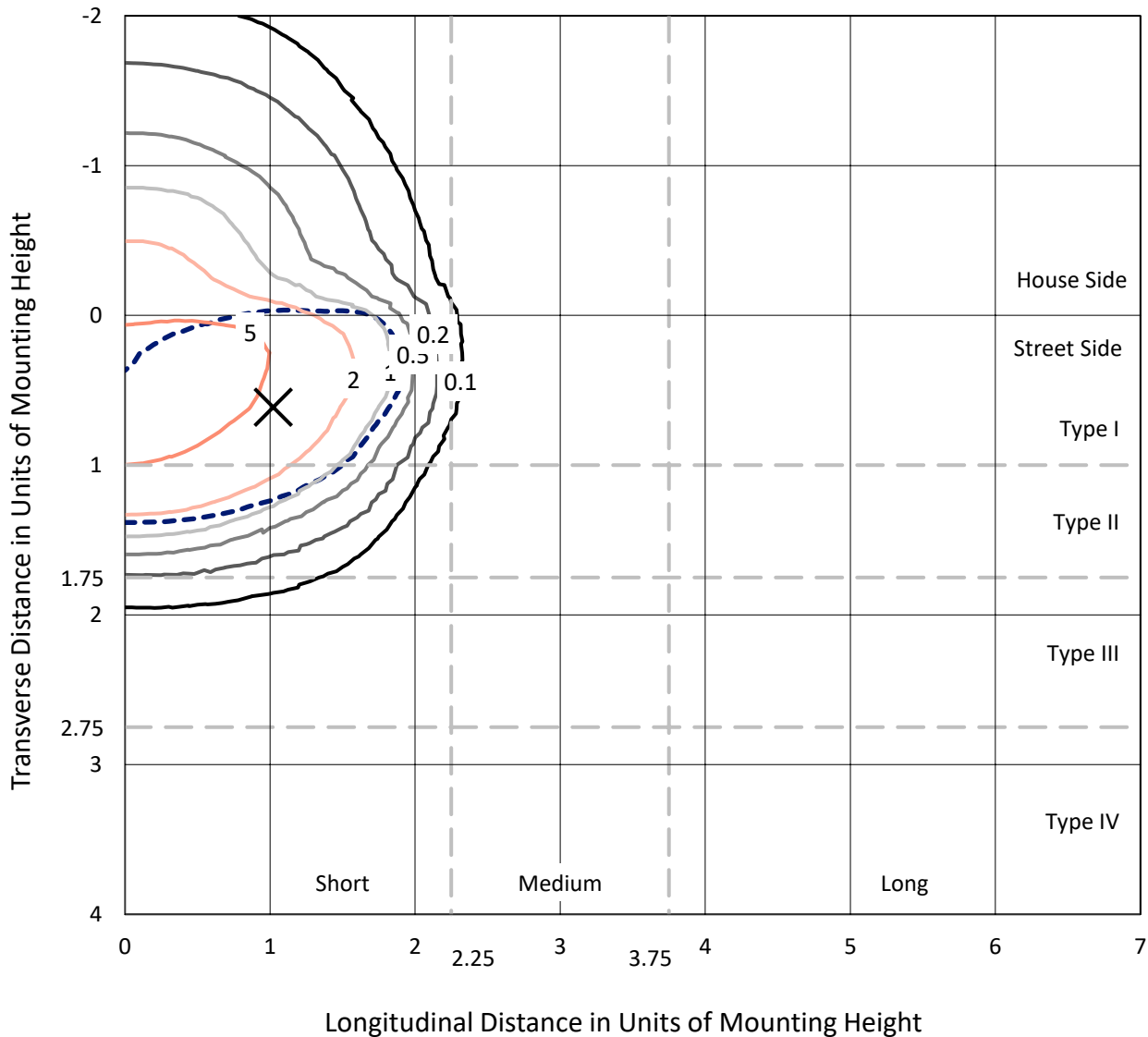


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### Iso-Footcandle Lines of Horizontal Illumination

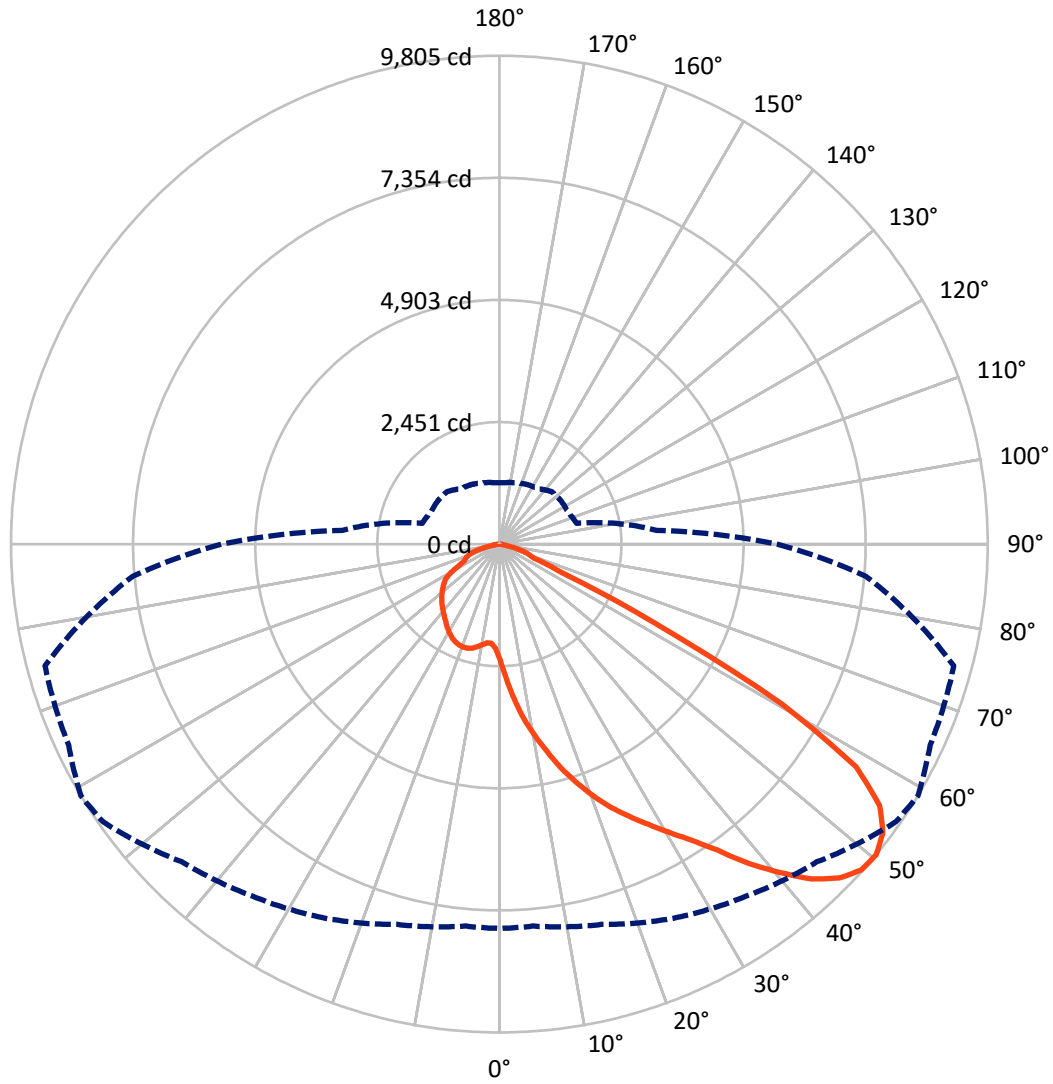
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	3545.2	0.0	3545.2
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	11867.6	0.0	11867.6
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15412.8	0.0	15412.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.0	1.7
10°-20°	951.0	6.2
20°-30°	1800.8	11.7
30°-40°	2986.2	19.4
40°-50°	4079.3	26.5
50°-60°	3703.0	24.0
60°-70°	1233.1	8.0
70°-80°	359.7	2.3
80°-90°	37.8	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°	15412.8	100.0
0°-180°	15412.8	100.0

**Coefficient of Utilization**



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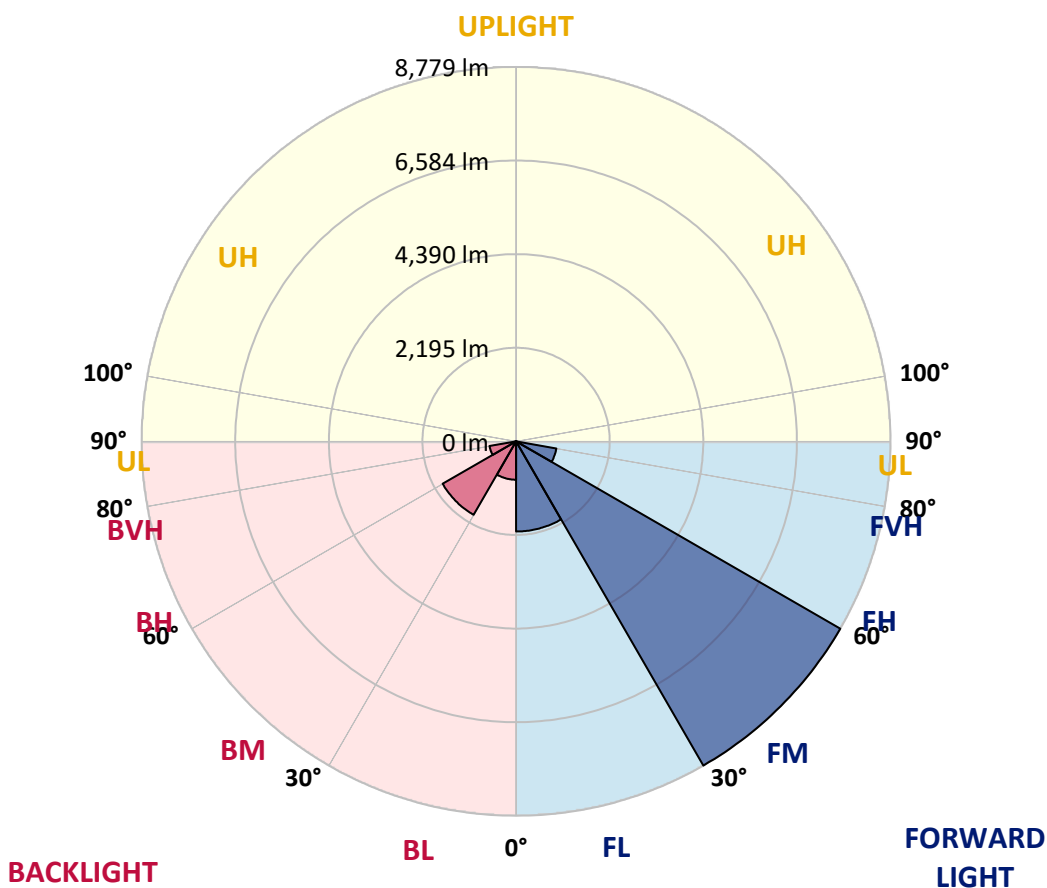
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2113.5	13.7			
FM (30°-60°)	8779.3	57.0			
FH (60°-80°)	960.0	6.2			G1/1800
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	900.2	5.8	B2/1000		
BM (30°-60°)	1989.2	12.9	B2/2500		
BH (60°-80°)	632.8	4.1	B2/1000		G2/1000
BVH (80°-90°)	23.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1
2.5°	3025.6	3048.2	3013.1	3015.6	2927.7	2887.5	2774.6	2708.0	2664.1	2541.0	2429.3
5°	3635.8	3609.4	3581.8	3565.5	3488.9	3380.9	3240.3	3128.6	3025.6	2784.6	2552.3
7.5°	4009.9	3996.1	3977.3	3967.2	3891.9	3778.9	3638.3	3542.9	3393.5	3067.1	2701.7
10°	4327.6	4311.2	4299.9	4307.5	4246.0	4173.1	4020.0	3910.7	3742.5	3365.9	2882.5
12.5°	4573.6	4582.4	4586.2	4626.4	4600.0	4556.0	4397.9	4282.4	4095.3	3681.0	3094.7
15°	4768.2	4765.7	4809.7	4886.2	4928.9	4901.3	4774.5	4677.8	4449.3	3991.1	3323.2
17.5°	4813.4	4815.9	4885.0	5019.3	5158.7	5226.5	5154.9	5039.4	4813.4	4297.4	3560.5
20°	4849.8	4854.8	4926.4	5079.6	5283.0	5472.5	5483.8	5401.0	5206.4	4628.9	3801.5
22.5°	5079.6	5090.9	5109.7	5206.4	5389.7	5629.5	5761.3	5743.7	5580.5	4976.6	4061.4
25°	5683.4	5649.6	5557.9	5530.3	5600.6	5795.2	6019.9	6053.8	5973.5	5359.5	4341.4
27.5°	6429.2	6392.8	6257.2	6114.1	5962.2	6030.0	6269.7	6371.4	6372.7	5781.4	4622.6
30°	7105.9	7077.0	6966.5	6761.9	6499.5	6401.6	6578.6	6715.4	6797.0	6268.5	4942.7
32.5°	7684.6	7658.3	7508.9	7341.9	7085.8	6888.7	6952.7	7084.5	7275.4	6898.7	5340.7
35°	8171.8	8145.4	8002.3	7834.0	7596.8	7478.8	7456.2	7546.5	7793.9	7556.6	5797.7
37.5°	8567.2	8540.9	8391.5	8233.3	8052.5	8060.0	8093.9	8137.9	8279.7	8260.9	6286.1
40°	8823.3	8795.7	8689.0	8576.0	8461.8	8552.2	8720.4	8667.7	8743.0	8829.6	6735.5
42.5°	8937.6	8902.4	8840.9	8815.8	8780.7	8921.3	9245.2	9192.4	9102.1	9208.8	7069.5
45°	8823.3	8793.2	8792.0	8868.5	8950.1	9130.9	9608.0	9565.3	9336.8	9392.1	7269.1
47.5°	8473.1	8446.7	8518.3	8719.1	8920.0	9183.7	9770.0	9777.5	9503.8	9468.6	7398.4
50°	7716.0	7698.5	7905.6	8286.0	8632.5	9019.2	9718.5	9805.1	9544.0	9444.8	7382.1
52.5°	6176.8	6258.4	6709.2	7344.4	8017.3	8730.4	9527.7	9640.6	9350.6	9287.9	7294.2
55°	4228.4	4266.0	4716.7	5644.5	6711.7	8105.2	9089.5	9264.0	9122.1	9261.5	7385.8
57.5°	2189.5	2219.6	2574.9	3398.5	4552.3	6405.3	7873.0	8445.5	8661.4	9394.6	7670.8
60°	898.9	924.0	1070.9	1468.9	2296.2	3730.0	5665.9	6514.6	7021.8	8579.8	6812.1
62.5°	652.8	665.4	735.7	876.3	1202.7	1827.9	3206.4	3519.0	3875.6	5377.1	4325.0
65°	549.9	563.7	620.2	705.6	877.6	1121.1	1369.7	1377.2	1517.8	2190.8	1603.2
67.5°	460.8	473.3	523.5	596.3	709.3	796.0	735.7	737.0	734.4	794.7	768.3
70°	359.1	369.1	419.3	497.2	556.2	511.0	575.0	636.5	610.2	634.0	670.4
72.5°	262.4	273.7	317.6	376.6	361.6	364.1	465.8	528.5	513.5	539.8	573.7
75°	189.6	197.1	219.7	188.3	198.4	239.8	327.7	361.6	376.6	399.2	429.4
77.5°	61.5	61.5	69.1	86.6	108.0	133.1	167.0	180.8	203.4	228.5	249.8
80°	31.4	32.6	38.9	47.7	60.3	76.6	97.9	104.2	115.5	129.3	138.1
82.5°	15.1	16.3	18.8	23.9	31.4	40.2	54.0	60.3	67.8	76.6	82.9
85°	3.8	3.8	5.0	7.5	10.0	15.1	20.1	23.9	30.1	36.4	40.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.0	6.3	7.5	10.0
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°	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1	2335.1
2.5°	2379.1	2308.8	2218.4	2141.8	2071.5	2017.5	1971.1	1948.5	1927.1	1912.1	1917.1
5°	2444.4	2323.8	2155.6	2038.9	1967.3	1930.9	1905.8	1893.2	1890.7	1880.7	1876.9
7.5°	2539.8	2367.8	2143.1	2025.1	1977.3	1958.5	1944.7	1937.2	1940.9	1930.9	1927.1
10°	2657.8	2440.6	2174.4	2070.2	2028.8	2015.0	1999.9	1989.9	1984.9	1969.8	1967.3
12.5°	2804.7	2531.0	2230.9	2128.0	2086.6	2062.7	2042.6	2025.1	2013.8	1994.9	1989.9
15°	2962.9	2631.4	2297.5	2184.5	2135.5	2100.4	2067.7	2041.4	2021.3	1996.2	1992.4
17.5°	3134.9	2736.9	2352.7	2223.4	2160.6	2114.2	2066.5	2027.6	1999.9	1967.3	1963.5
20°	3314.4	2843.6	2394.2	2242.2	2161.9	2099.1	2035.1	1983.6	1948.5	1915.8	1913.3
22.5°	3500.2	2941.5	2419.3	2237.2	2141.8	2064.0	1987.4	1929.6	1888.2	1849.3	1846.8
25°	3687.3	3035.7	2425.5	2217.1	2101.6	2011.2	1934.7	1866.9	1820.4	1776.5	1771.4
27.5°	3876.8	3114.8	2410.5	2177.0	2047.6	1949.7	1873.1	1806.6	1758.9	1715.0	1707.4
30°	4079.0	3182.6	2377.8	2124.2	1984.9	1884.4	1809.1	1758.9	1713.7	1669.8	1662.2
32.5°	4294.9	3241.6	2331.4	2060.2	1912.1	1819.2	1763.9	1718.7	1673.5	1634.6	1627.1
35°	4552.3	3280.5	2262.3	1977.3	1844.3	1771.4	1733.8	1681.1	1625.8	1583.1	1579.4
37.5°	4818.4	3310.6	2179.5	1898.2	1785.3	1743.8	1712.4	1640.9	1571.8	1520.4	1514.1
40°	5075.8	3335.7	2076.5	1824.2	1731.3	1723.7	1681.1	1591.9	1472.6	1414.9	1409.9
42.5°	5315.6	3343.3	1968.6	1745.1	1682.3	1678.5	1630.8	1492.7	1401.1	1364.7	1359.7
45°	5480.1	3337.0	1856.8	1671.0	1633.3	1613.3	1563.0	1421.2	1364.7	1332.0	1325.8
47.5°	5601.8	3304.4	1731.3	1593.2	1578.1	1550.5	1442.5	1376.0	1323.3	1290.6	1284.3
50°	5580.5	3168.8	1604.5	1517.8	1511.6	1487.7	1354.6	1319.5	1273.0	1237.9	1232.9
52.5°	5470.0	2911.4	1475.2	1435.0	1447.5	1401.1	1291.9	1251.7	1211.5	1171.3	1162.6
55°	5497.6	2725.6	1377.2	1354.6	1377.2	1271.8	1221.6	1178.9	1141.2	1102.3	1094.8
57.5°	5618.2	2542.3	1273.0	1268.0	1291.9	1172.6	1131.2	1077.2	1023.2	991.8	991.8
60°	4718.0	1853.1	1089.7	1102.3	1156.3	1092.2	1055.8	1000.6	941.6	914.0	914.0
62.5°	2789.6	1162.6	903.9	890.1	924.0	964.2	984.3	939.1	868.8	832.4	833.6
65°	1229.1	846.2	797.2	785.9	775.9	803.5	858.7	862.5	788.4	745.7	747.0
67.5°	757.0	765.8	745.7	737.0	728.2	723.1	718.1	720.6	700.5	661.6	660.4
70°	683.0	706.8	693.0	685.5	674.2	665.4	635.3	586.3	552.4	542.4	553.7
72.5°	587.6	620.2	612.7	608.9	595.1	573.7	533.6	485.9	445.7	420.6	425.6
75°	443.2	469.5	473.3	474.6	459.5	439.4	398.0	357.8	322.7	296.3	302.6
77.5°	254.9	269.9	273.7	277.5	266.2	258.6	231.0	202.1	183.3	155.7	163.2
80°	141.9	148.1	148.1	149.4	143.1	134.3	115.5	99.2	90.4	77.8	79.1
82.5°	85.4	87.9	89.1	90.4	86.6	77.8	64.0	52.7	47.7	41.4	40.2
85°	41.4	43.9	43.9	45.2	38.9	33.9	26.4	20.1	17.6	12.6	13.8
87.5°	10.0	11.3	11.3	10.0	8.8	6.3	3.8	1.3	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)