

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: P639373

Luminaire Tested: GWS-SA5B-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639373  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

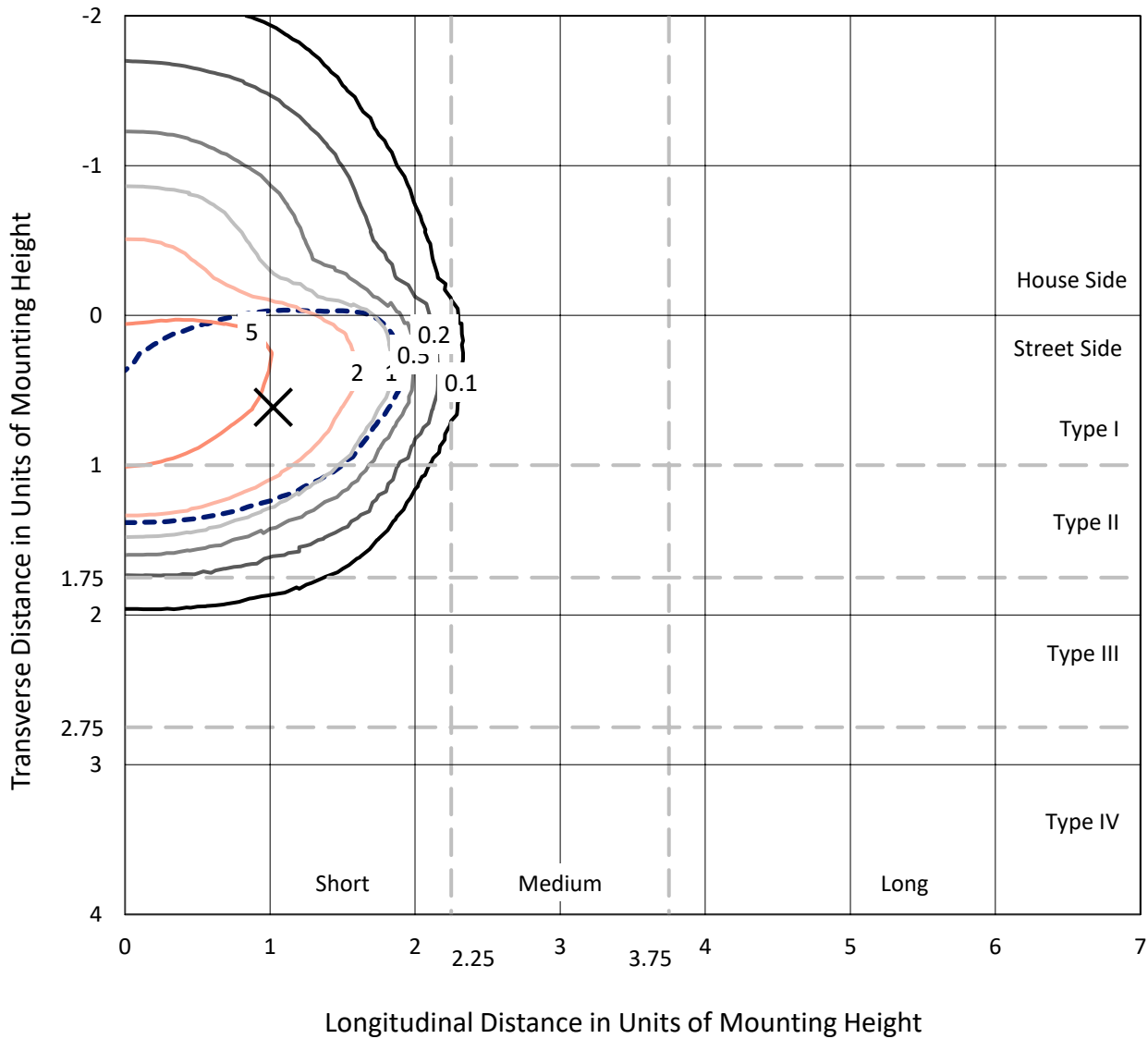
Lumens per Lamp: N/A  
Luminaire Lumens: 15766 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

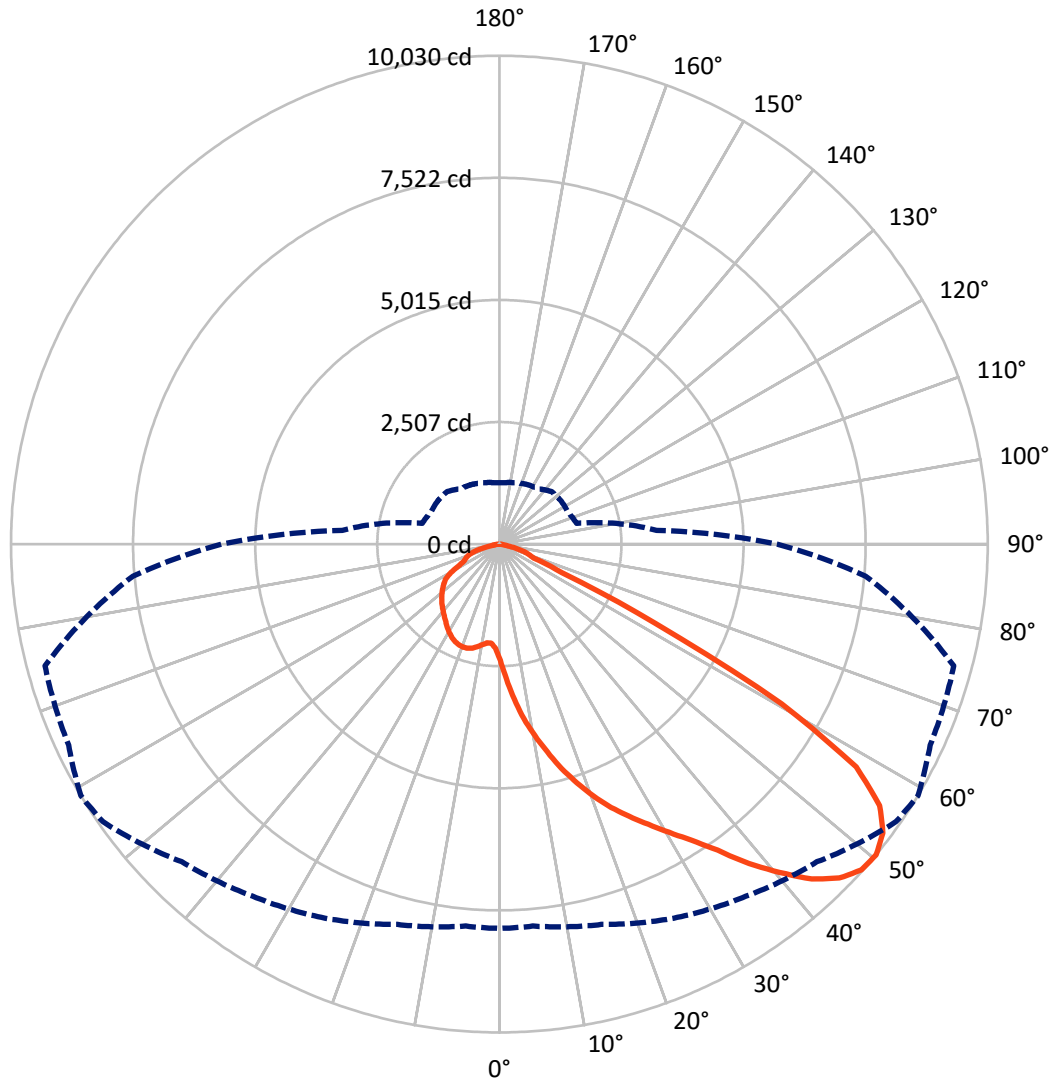
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3626.5	0.0	3626.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	12139.5	0.0	12139.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15766.0	0.0	15766.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.0	1.7
10°-20°	972.8	6.2
20°-30°	1842.0	11.7
30°-40°	3054.7	19.4
40°-50°	4172.8	26.5
50°-60°	3787.8	24.0
60°-70°	1261.4	8.0
70°-80°	367.9	2.3
80°-90°	38.6	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°	15766.0	100.0
0°-180°	15766.0	100.0

**Coefficient of Utilization**



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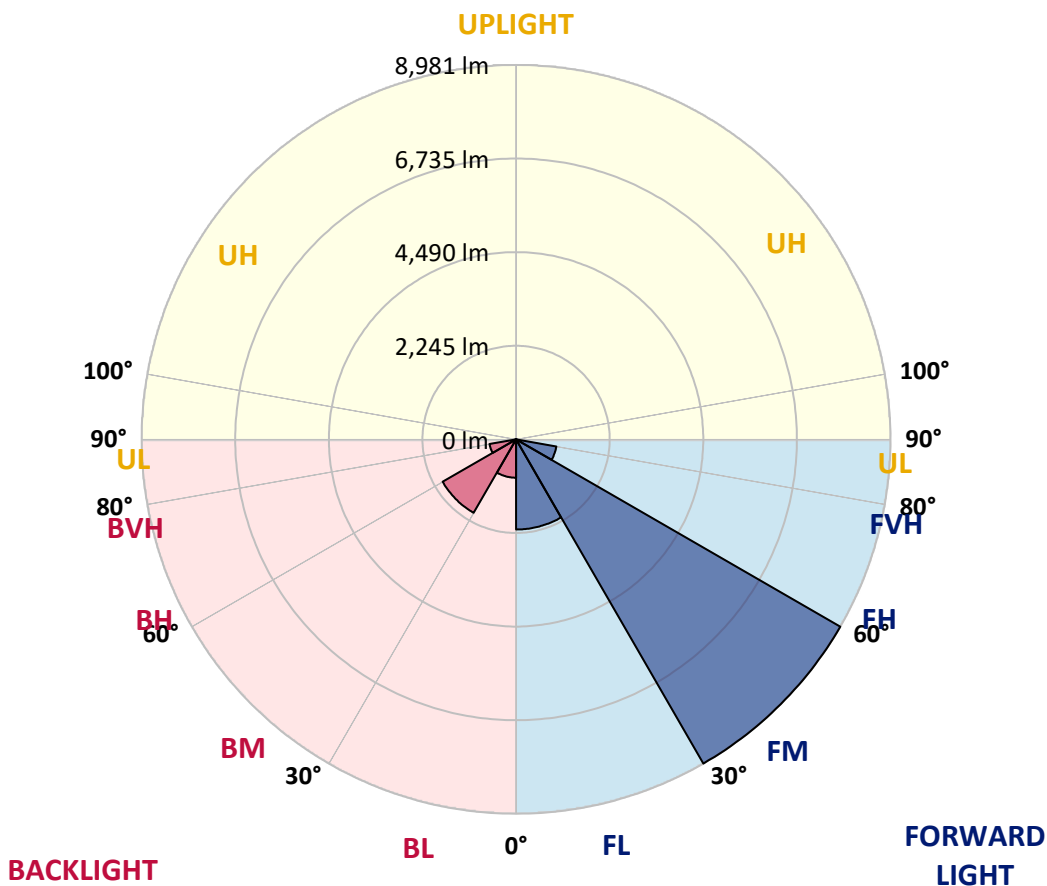
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.9	13.7			
FM (30°-60°)	8980.5	57.0			
FH (60°-80°)	982.0	6.2			G1/1800
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	920.8	5.8	B2/1000		
BM (30°-60°)	2034.8	12.9	B2/2500		
BH (60°-80°)	647.3	4.1	B2/1000		G2/1000
BVH (80°-90°)	23.5	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°	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7
2.5°	3095.0	3118.1	3082.1	3084.7	2994.8	2953.7	2838.1	2770.1	2725.1	2599.3	2485.0
5°	3719.1	3692.1	3663.9	3647.2	3568.9	3458.4	3314.6	3200.3	3095.0	2848.4	2610.8
7.5°	4101.8	4087.7	4068.4	4058.2	3981.1	3865.5	3721.7	3624.1	3471.3	3137.4	2763.7
10°	4426.7	4410.0	4398.5	4406.2	4343.3	4268.8	4112.1	4000.4	3828.3	3443.0	2948.6
12.5°	4678.4	4687.4	4691.3	4732.4	4705.4	4660.5	4498.6	4380.5	4189.1	3765.4	3165.6
15°	4877.5	4874.9	4919.9	4998.2	5041.9	5013.6	4883.9	4785.0	4551.3	4082.6	3399.3
17.5°	4923.7	4926.3	4996.9	5134.3	5276.9	5346.2	5273.0	5154.9	4923.7	4395.9	3642.1
20°	4961.0	4966.1	5039.3	5196.0	5404.0	5597.9	5609.5	5524.7	5325.7	4734.9	3888.6
22.5°	5196.0	5207.5	5226.8	5325.7	5513.2	5758.5	5893.3	5875.3	5708.4	5090.7	4154.5
25°	5813.7	5779.0	5685.3	5657.0	5728.9	5928.0	6157.9	6192.5	6110.3	5482.4	4440.9
27.5°	6576.5	6539.3	6400.6	6254.2	6098.8	6168.1	6413.4	6517.4	6518.7	5913.9	4728.5
30°	7268.7	7239.2	7126.2	6916.8	6648.4	6548.3	6729.3	6869.3	6952.8	6412.1	5056.0
32.5°	7860.7	7833.8	7681.0	7510.2	7248.2	7046.5	7112.0	7246.9	7442.1	7056.8	5463.1
35°	8359.0	8332.1	8185.7	8013.6	7770.9	7650.1	7627.0	7719.5	7972.5	7729.8	5930.6
37.5°	8763.6	8736.6	8583.8	8422.0	8237.0	8244.7	8279.4	8324.4	8469.5	8450.2	6430.1
40°	9025.5	8997.3	8888.1	8772.5	8655.7	8748.1	8920.2	8866.3	8943.4	9032.0	6889.9
42.5°	9142.4	9106.4	9043.5	9017.8	8981.9	9125.7	9457.0	9403.1	9310.6	9419.8	7231.5
45°	9025.5	8994.7	8993.4	9071.8	9155.2	9340.2	9828.2	9784.5	9550.8	9607.3	7435.7
47.5°	8667.2	8640.3	8713.5	8919.0	9124.4	9394.1	9993.8	10001.6	9721.6	9685.6	7567.9
50°	7892.9	7874.9	8086.8	8475.9	8830.3	9225.9	9941.2	10029.8	9762.7	9661.2	7551.2
52.5°	6318.4	6401.9	6862.9	7512.7	8201.1	8930.5	9746.0	9861.6	9564.9	9500.7	7461.4
55°	4325.3	4363.8	4824.8	5773.9	6865.5	8291.0	9297.8	9476.3	9331.2	9473.7	7555.1
57.5°	2239.7	2270.5	2633.9	3476.4	4656.6	6552.1	8053.4	8639.0	8859.9	9609.9	7846.6
60°	919.5	945.2	1095.4	1502.5	2348.8	3815.4	5795.7	6663.8	7182.7	8776.4	6968.2
62.5°	667.8	680.6	752.6	896.4	1230.3	1869.8	3279.9	3599.7	3964.4	5500.3	4424.2
65°	562.5	576.6	634.4	721.7	897.7	1146.8	1401.1	1408.8	1552.6	2241.0	1640.0
67.5°	471.3	484.2	535.5	610.0	725.6	814.2	752.6	753.8	751.3	812.9	785.9
70°	367.3	377.6	428.9	508.6	568.9	522.7	588.2	651.1	624.1	648.5	685.8
72.5°	268.4	280.0	324.9	385.3	369.9	372.4	476.4	540.7	525.2	552.2	586.9
75°	193.9	201.6	224.7	192.6	202.9	245.3	335.2	369.9	385.3	408.4	439.2
77.5°	62.9	62.9	70.6	88.6	110.4	136.1	170.8	184.9	208.0	233.7	255.6
80°	32.1	33.4	39.8	48.8	61.6	78.3	100.2	106.6	118.1	132.3	141.3
82.5°	15.4	16.7	19.3	24.4	32.1	41.1	55.2	61.6	69.3	78.3	84.8
85°	3.9	3.9	5.1	7.7	10.3	15.4	20.5	24.4	30.8	37.2	41.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.1	6.4	7.7	10.3
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°	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7	2388.7
2.5°	2433.6	2361.7	2269.2	2190.9	2119.0	2063.8	2016.2	1993.1	1971.3	1955.9	1961.0
5°	2500.4	2377.1	2205.0	2085.6	2012.4	1975.1	1949.5	1936.6	1934.0	1923.8	1919.9
7.5°	2598.0	2422.1	2192.2	2071.5	2022.7	2003.4	1989.3	1981.6	1985.4	1975.1	1971.3
10°	2718.7	2496.5	2224.3	2117.7	2075.3	2061.2	2045.8	2035.5	2030.4	2015.0	2012.4
12.5°	2869.0	2589.0	2282.1	2176.8	2134.4	2110.0	2089.4	2071.5	2059.9	2040.6	2035.5
15°	3030.8	2691.7	2350.1	2234.6	2184.5	2148.5	2115.1	2088.2	2067.6	2041.9	2038.1
17.5°	3206.7	2799.6	2406.6	2274.4	2210.2	2162.6	2113.8	2074.0	2045.8	2012.4	2008.5
20°	3390.4	2908.8	2449.0	2293.6	2211.4	2147.2	2081.7	2029.1	1993.1	1959.7	1957.2
22.5°	3580.4	3008.9	2474.7	2288.5	2190.9	2111.3	2032.9	1973.9	1931.5	1891.7	1889.1
25°	3771.8	3105.3	2481.1	2267.9	2149.8	2057.3	1979.0	1909.6	1862.1	1817.2	1812.0
27.5°	3965.7	3186.2	2465.7	2226.8	2094.6	1994.4	1916.1	1848.0	1799.2	1754.3	1746.5
30°	4172.5	3255.5	2432.3	2172.9	2030.4	1927.6	1850.6	1799.2	1753.0	1708.0	1700.3
32.5°	4393.3	3315.9	2384.8	2107.4	1955.9	1860.8	1804.3	1758.1	1711.9	1672.1	1664.4
35°	4656.6	3355.7	2314.2	2022.7	1886.5	1812.0	1773.5	1719.6	1663.1	1619.4	1615.6
37.5°	4928.9	3386.5	2229.4	1941.7	1826.2	1783.8	1751.7	1678.5	1607.9	1555.2	1548.8
40°	5192.1	3412.2	2124.1	1866.0	1770.9	1763.2	1719.6	1628.4	1506.4	1447.3	1442.2
42.5°	5437.4	3419.9	2013.7	1785.1	1720.9	1717.0	1668.2	1526.9	1433.2	1396.0	1390.8
45°	5605.6	3413.5	1899.4	1709.3	1670.8	1650.2	1598.9	1453.7	1396.0	1362.6	1356.1
47.5°	5730.2	3380.1	1770.9	1629.7	1614.3	1586.0	1475.6	1407.5	1353.6	1320.2	1313.8
50°	5708.4	3241.4	1641.2	1552.6	1546.2	1521.8	1385.7	1349.7	1302.2	1266.2	1261.1
52.5°	5595.4	2978.1	1509.0	1467.9	1480.7	1433.2	1321.5	1280.4	1239.3	1198.2	1189.2
55°	5623.6	2788.1	1408.8	1385.7	1408.8	1300.9	1249.6	1205.9	1167.4	1127.6	1119.8
57.5°	5746.9	2600.6	1302.2	1297.1	1321.5	1199.5	1157.1	1101.9	1046.6	1014.5	1014.5
60°	4826.1	1895.5	1114.7	1127.6	1182.8	1117.3	1080.0	1023.5	963.2	934.9	934.9
62.5°	2853.6	1189.2	924.6	910.5	945.2	986.3	1006.8	960.6	888.7	851.4	852.7
65°	1257.3	865.6	815.5	803.9	793.7	821.9	878.4	882.3	806.5	762.8	764.1
67.5°	774.4	783.4	762.8	753.8	744.9	739.7	734.6	737.1	716.6	676.8	675.5
70°	698.6	723.0	708.9	701.2	689.6	680.6	649.8	599.7	565.1	554.8	566.3
72.5°	601.0	634.4	626.7	622.8	608.7	586.9	545.8	497.0	455.9	430.2	435.4
75°	453.3	480.3	484.2	485.4	470.0	449.5	407.1	366.0	330.0	303.1	309.5
77.5°	260.7	276.1	280.0	283.8	272.3	264.6	236.3	206.8	187.5	159.2	166.9
80°	145.1	151.5	151.5	152.8	146.4	137.4	118.1	101.5	92.5	79.6	80.9
82.5°	87.3	89.9	91.2	92.5	88.6	79.6	65.5	53.9	48.8	42.4	41.1
85°	42.4	44.9	44.9	46.2	39.8	34.7	27.0	20.5	18.0	12.8	14.1
87.5°	10.3	11.6	11.6	10.3	9.0	6.4	3.9	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)