

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: P639538

Luminaire Tested: GWS-SA5C-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639538  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

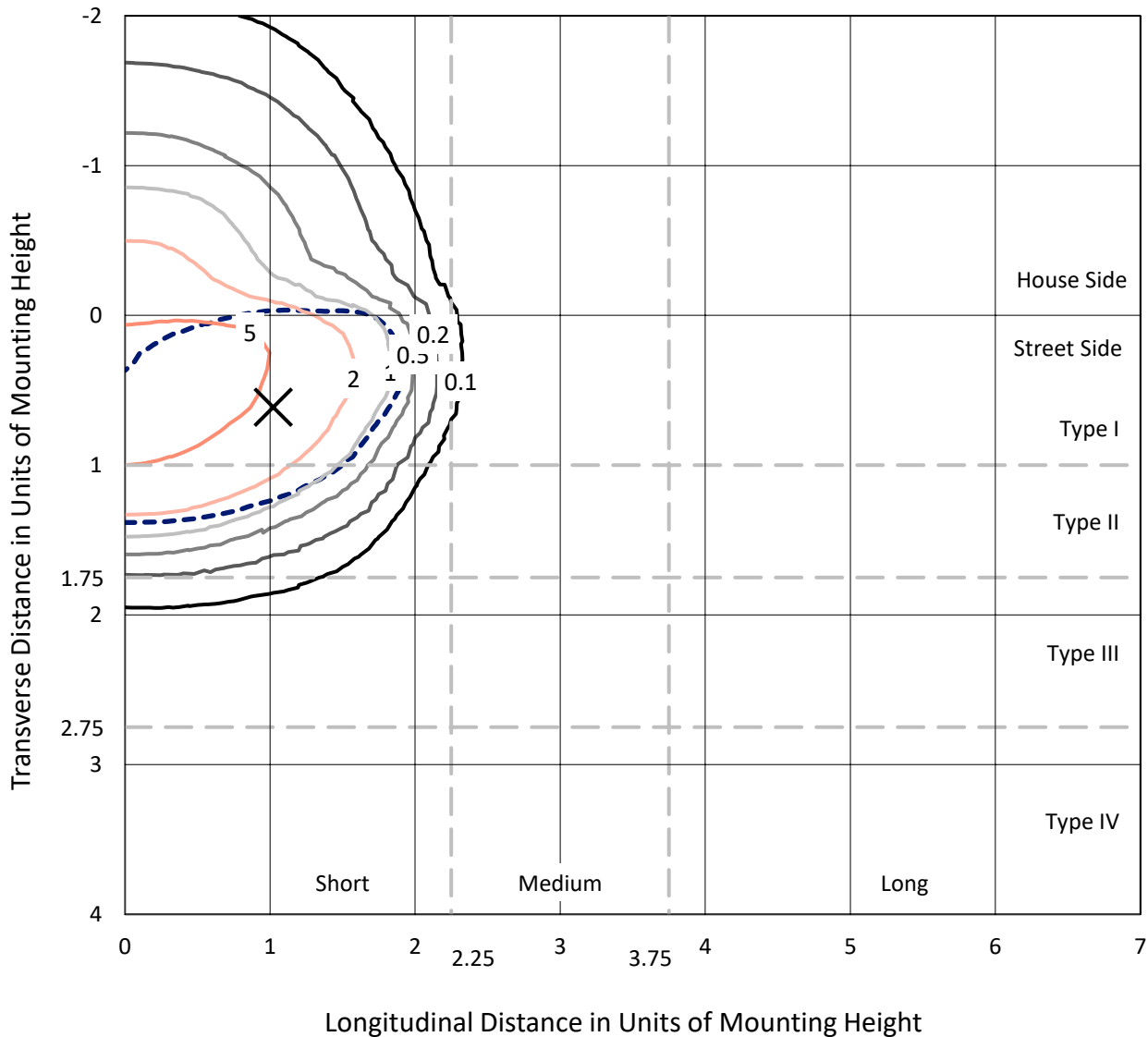
Lumens per Lamp: N/A  
Luminaire Lumens: 15437.2 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P639538  
 CATALOG NUMBER: GWS-SA5C-722-U-T2R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

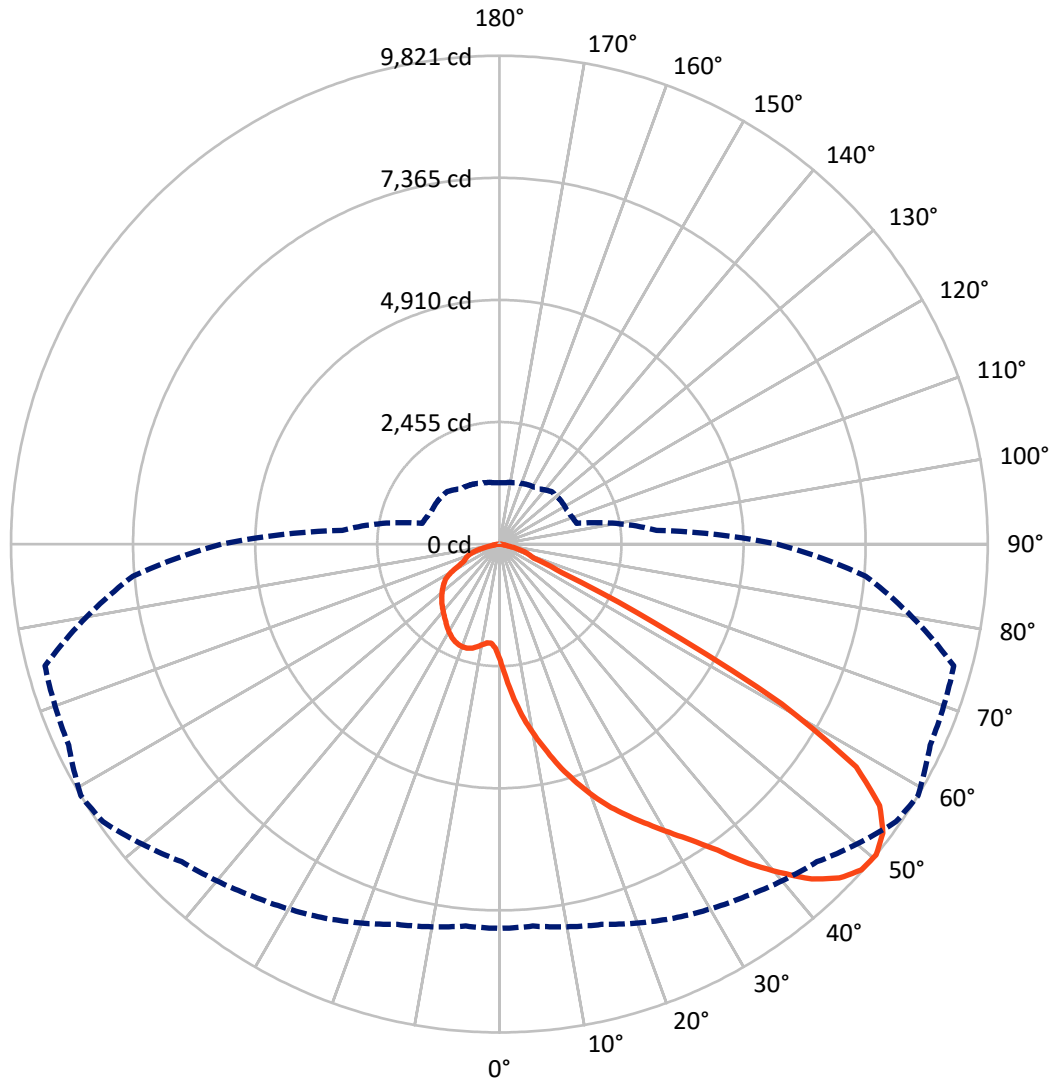
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P639538  
CATALOG NUMBER: GWS-SA5C-722-U-T2R-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P639538

CATALOG NUMBER: GWS-SA5C-722-U-T2R-W-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3550.9	0.0	3550.9
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	11886.4	0.0	11886.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	15437.2	0.0	15437.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.4	1.7
10°-20°	952.5	6.2
20°-30°	1803.6	11.7
30°-40°	2991.0	19.4
40°-50°	4085.8	26.5
50°-60°	3708.8	24.0
60°-70°	1235.1	8.0
70°-80°	360.2	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°	15437.2	100.0
0°-180°	15437.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639538

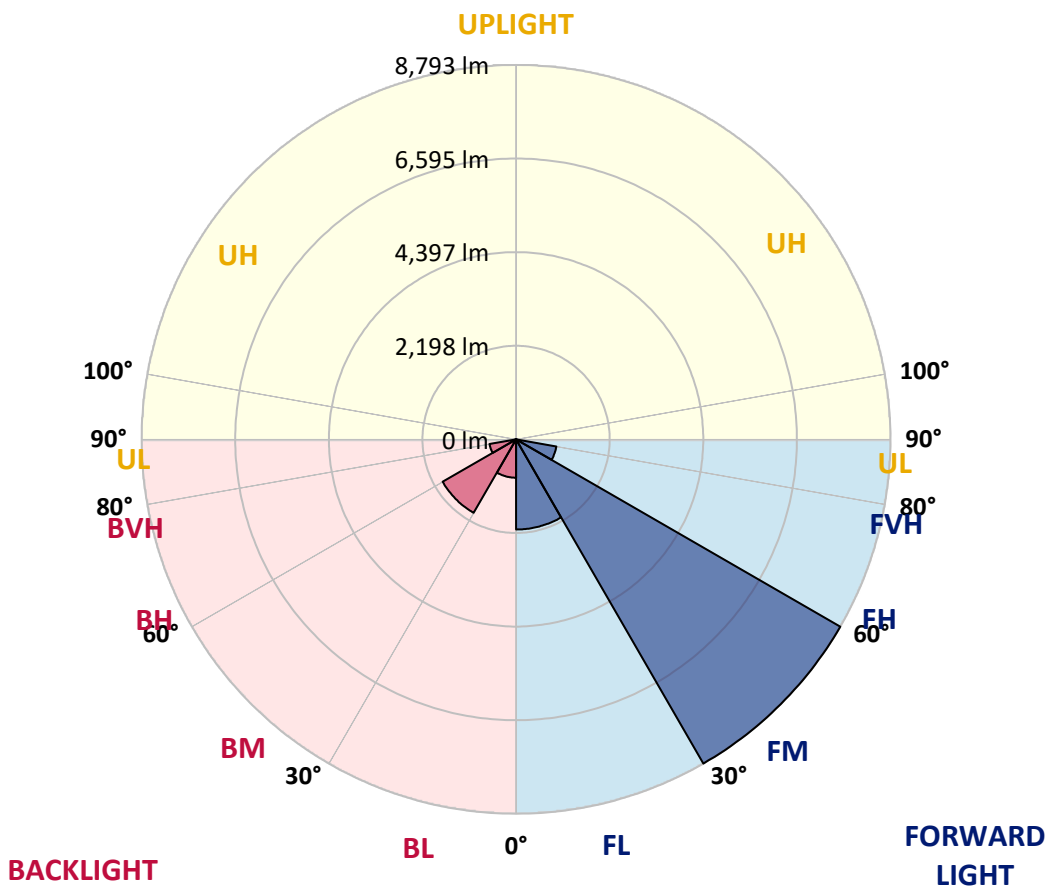
CATALOG NUMBER: GWS-SA5C-722-U-T2R-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.8	13.7			
FM (30°-60°)	8793.2	57.0			
FH (60°-80°)	961.5	6.2			G1/1800
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	901.6	5.8	B2/1000		
BM (30°-60°)	1992.4	12.9	B2/2500		
BH (60°-80°)	633.8	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





REPORT NUMBER: P639538

CATALOG NUMBER: GWS-SA5C-722-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8
2.5°	3030.4	3053.1	3017.9	3020.4	2932.4	2892.1	2779.0	2712.3	2668.3	2545.1	2433.2
5°	3641.6	3615.2	3587.5	3571.1	3494.4	3386.3	3245.5	3133.5	3030.4	2789.0	2556.4
7.5°	4016.3	4002.4	3983.6	3973.5	3898.1	3784.9	3644.1	3548.5	3398.9	3071.9	2706.0
10°	4334.4	4318.1	4306.7	4314.3	4252.7	4179.7	4026.3	3916.9	3748.4	3371.2	2887.1
12.5°	4580.9	4589.7	4593.4	4633.7	4607.3	4563.3	4404.8	4289.1	4101.8	3686.8	3099.6
15°	4775.8	4773.3	4817.3	4894.0	4936.7	4909.1	4782.1	4685.2	4456.4	3997.4	3328.5
17.5°	4821.0	4823.6	4892.7	5027.3	5166.8	5234.7	5163.1	5047.4	4821.0	4304.2	3566.1
20°	4857.5	4862.5	4934.2	5087.6	5291.3	5481.2	5492.5	5409.5	5214.6	4636.2	3807.5
22.5°	5087.6	5098.9	5117.8	5214.6	5398.2	5638.4	5770.4	5752.8	5589.3	4984.5	4067.8
25°	5692.4	5658.5	5566.7	5539.0	5609.5	5804.4	6029.4	6063.4	5982.9	5368.0	4348.2
27.5°	6439.4	6402.9	6267.1	6123.7	5971.6	6039.5	6279.7	6381.5	6382.8	5790.5	4629.9
30°	7117.1	7088.2	6977.6	6772.6	6509.8	6411.7	6589.0	6726.1	6807.8	6278.4	4950.6
32.5°	7696.8	7670.4	7520.8	7353.5	7097.0	6899.6	6963.7	7095.8	7286.9	6909.7	5349.2
35°	8184.7	8158.3	8014.9	7846.4	7608.8	7490.6	7468.0	7558.5	7806.2	7568.6	5806.9
37.5°	8580.8	8554.4	8404.8	8246.3	8065.2	8072.8	8106.7	8150.7	8292.8	8274.0	6296.0
40°	8837.3	8809.6	8702.8	8589.6	8475.2	8565.7	8734.2	8681.4	8756.8	8843.6	6746.2
42.5°	8951.7	8916.5	8854.9	8829.8	8794.6	8935.4	9259.8	9207.0	9116.5	9223.3	7080.7
45°	8837.3	8807.1	8805.9	8882.6	8964.3	9145.4	9623.2	9580.5	9351.6	9406.9	7280.6
47.5°	8486.5	8460.1	8531.8	8732.9	8934.1	9198.2	9785.4	9793.0	9518.8	9483.6	7410.1
50°	7728.2	7710.6	7918.1	8299.1	8646.2	9033.5	9733.9	9820.6	9559.1	9459.7	7393.8
52.5°	6186.6	6268.4	6719.8	7356.0	8030.0	8744.3	9542.7	9655.9	9365.4	9302.6	7305.7
55°	4235.1	4272.8	4724.2	5653.5	6722.3	8118.1	9103.9	9278.7	9136.6	9276.2	7397.5
57.5°	2193.0	2223.2	2579.0	3403.9	4559.5	6415.5	7885.4	8458.8	8675.1	9409.4	7683.0
60°	900.3	925.5	1072.6	1471.2	2299.9	3735.9	5674.8	6524.9	7032.9	8593.4	6822.9
62.5°	653.9	666.4	736.9	877.7	1204.6	1830.8	3211.5	3524.6	3881.7	5385.6	4331.9
65°	550.8	564.6	621.2	706.7	879.0	1122.9	1371.9	1379.4	1520.2	2194.2	1605.8
67.5°	461.5	474.1	524.4	597.3	710.5	797.2	736.9	738.1	735.6	796.0	769.6
70°	359.6	369.7	420.0	497.9	557.0	511.8	575.9	637.5	611.1	635.0	671.5
72.5°	262.8	274.1	318.1	377.2	362.1	364.7	466.5	529.4	514.3	540.7	574.7
75°	189.9	197.4	220.1	188.6	198.7	240.2	328.2	362.1	377.2	399.9	430.0
77.5°	61.6	61.6	69.2	86.8	108.1	133.3	167.2	181.1	203.7	228.9	250.2
80°	31.4	32.7	39.0	47.8	60.4	76.7	98.1	104.4	115.7	129.5	138.3
82.5°	15.1	16.3	18.9	23.9	31.4	40.2	54.1	60.4	67.9	76.7	83.0
85°	3.8	3.8	5.0	7.5	10.1	15.1	20.1	23.9	30.2	36.5	40.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.0	6.3	7.5	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639538

CATALOG NUMBER: GWS-SA5C-722-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8	2338.8
2.5°	2382.9	2312.4	2221.9	2145.2	2074.8	2020.7	1974.2	1951.6	1930.2	1915.1	1920.1
5°	2448.2	2327.5	2159.0	2042.1	1970.4	1933.9	1908.8	1896.2	1893.7	1883.7	1879.9
7.5°	2543.8	2371.5	2146.5	2028.3	1980.5	1961.6	1947.8	1940.2	1944.0	1933.9	1930.2
10°	2662.0	2444.5	2177.9	2073.5	2032.0	2018.2	2003.1	1993.0	1988.0	1972.9	1970.4
12.5°	2809.1	2535.0	2234.5	2131.4	2089.9	2066.0	2045.9	2028.3	2016.9	1998.1	1993.0
15°	2967.6	2635.6	2301.1	2188.0	2138.9	2103.7	2071.0	2044.6	2024.5	1999.3	1995.6
17.5°	3139.8	2741.2	2356.4	2226.9	2164.1	2117.5	2069.8	2030.8	2003.1	1970.4	1966.6
20°	3319.7	2848.1	2397.9	2245.8	2165.3	2102.4	2038.3	1986.8	1951.6	1918.9	1916.3
22.5°	3505.8	2946.2	2423.1	2240.8	2145.2	2067.2	1990.5	1932.7	1891.2	1852.2	1849.7
25°	3693.1	3040.5	2429.4	2220.6	2105.0	2014.4	1937.7	1869.8	1823.3	1779.3	1774.3
27.5°	3883.0	3119.7	2414.3	2180.4	2050.9	1952.8	1876.1	1809.5	1761.7	1717.7	1710.1
30°	4085.4	3187.6	2381.6	2127.6	1988.0	1887.4	1812.0	1761.7	1716.4	1672.4	1664.9
32.5°	4301.7	3246.7	2335.1	2063.5	1915.1	1822.0	1766.7	1721.4	1676.2	1637.2	1629.6
35°	4559.5	3285.7	2265.9	1980.5	1847.2	1774.3	1736.5	1683.7	1628.4	1585.6	1581.9
37.5°	4826.1	3315.9	2182.9	1901.3	1788.1	1746.6	1715.2	1643.5	1574.3	1522.8	1516.5
40°	5083.8	3341.0	2079.8	1827.1	1734.0	1726.5	1683.7	1594.4	1475.0	1417.1	1412.1
42.5°	5324.0	3348.6	1971.7	1747.8	1685.0	1681.2	1633.4	1495.1	1403.3	1366.8	1361.8
45°	5488.7	3342.3	1859.8	1673.7	1635.9	1615.8	1565.5	1423.4	1366.8	1334.1	1327.9
47.5°	5610.7	3309.6	1734.0	1595.7	1580.6	1552.9	1444.8	1378.2	1325.3	1292.7	1286.4
50°	5589.3	3173.8	1607.0	1520.2	1514.0	1490.1	1356.8	1321.6	1275.0	1239.8	1234.8
52.5°	5478.7	2916.0	1477.5	1437.3	1449.8	1403.3	1293.9	1253.7	1213.4	1173.2	1164.4
55°	5506.3	2729.9	1379.4	1356.8	1379.4	1273.8	1223.5	1180.7	1143.0	1104.0	1096.5
57.5°	5627.1	2546.3	1275.0	1270.0	1293.9	1174.5	1133.0	1078.9	1024.8	993.4	993.4
60°	4725.5	1856.0	1091.5	1104.0	1158.1	1094.0	1057.5	1002.2	943.1	915.4	915.4
62.5°	2794.0	1164.4	905.4	891.5	925.5	965.7	985.8	940.6	870.2	833.7	834.9
65°	1231.0	847.5	798.5	787.2	777.1	804.8	860.1	863.9	789.7	746.9	748.2
67.5°	758.2	767.0	746.9	738.1	729.3	724.3	719.3	721.8	701.7	662.7	661.4
70°	684.0	707.9	694.1	686.6	675.2	666.4	636.3	587.2	553.3	543.2	554.5
72.5°	588.5	621.2	613.6	609.9	596.0	574.7	534.4	486.6	446.4	421.2	426.3
75°	443.9	470.3	474.1	475.3	460.2	440.1	398.6	358.4	323.2	296.8	303.0
77.5°	255.3	270.4	274.1	277.9	266.6	259.0	231.4	202.4	183.6	155.9	163.5
80°	142.1	148.4	148.4	149.6	143.3	134.5	115.7	99.3	90.5	78.0	79.2
82.5°	85.5	88.0	89.3	90.5	86.8	78.0	64.1	52.8	47.8	41.5	40.2
85°	41.5	44.0	44.0	45.3	39.0	34.0	26.4	20.1	17.6	12.6	13.8
87.5°	10.1	11.3	11.3	10.1	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)