

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: P639018

Luminaire Tested: GWS-SA5B-722-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-722-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

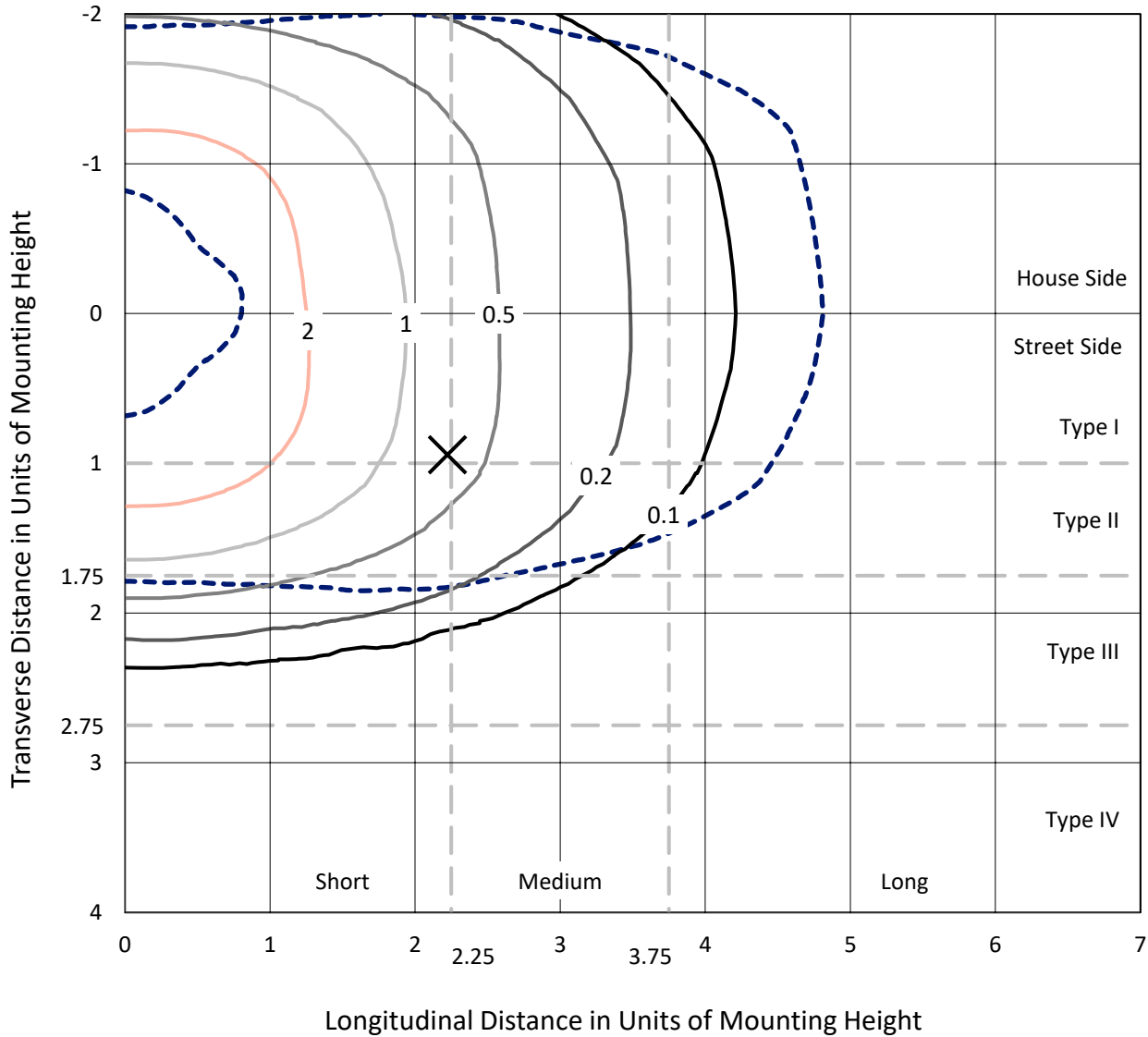
Lumens per Lamp: N/A  
Luminaire Lumens: 13463.7 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

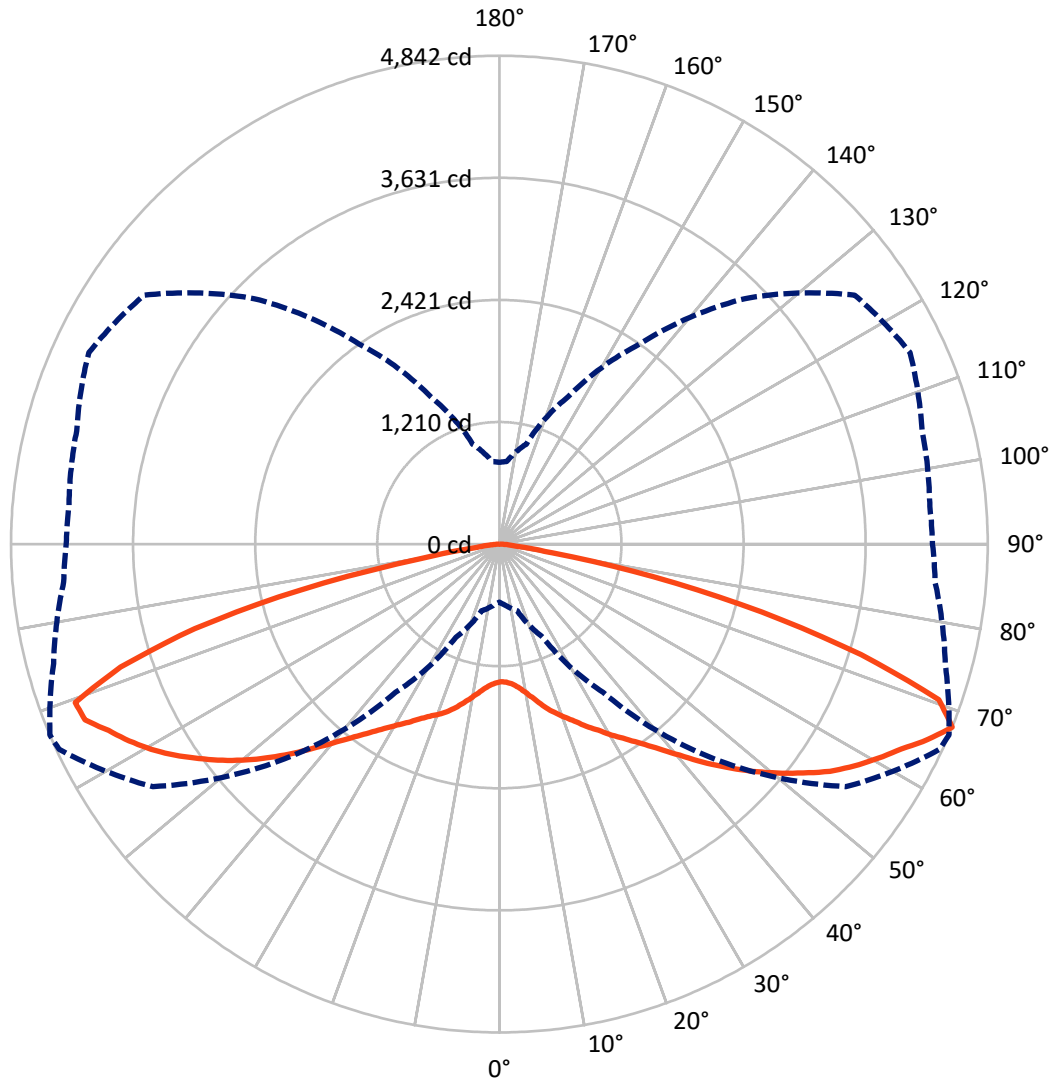
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6657.6	0.0	6657.6
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	6806.1	0.0	6806.1
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	13463.7	0.0	13463.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	1.0
10°-20°	451.9	3.4
20°-30°	886.6	6.6
30°-40°	1510.4	11.2
40°-50°	2425.4	18.0
50°-60°	3295.7	24.5
60°-70°	3152.5	23.4
70°-80°	1498.8	11.1
80°-90°	108.6	0.8
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°	13463.7	100.0
0°-180°	13463.7	100.0

**Coefficient of Utilization**



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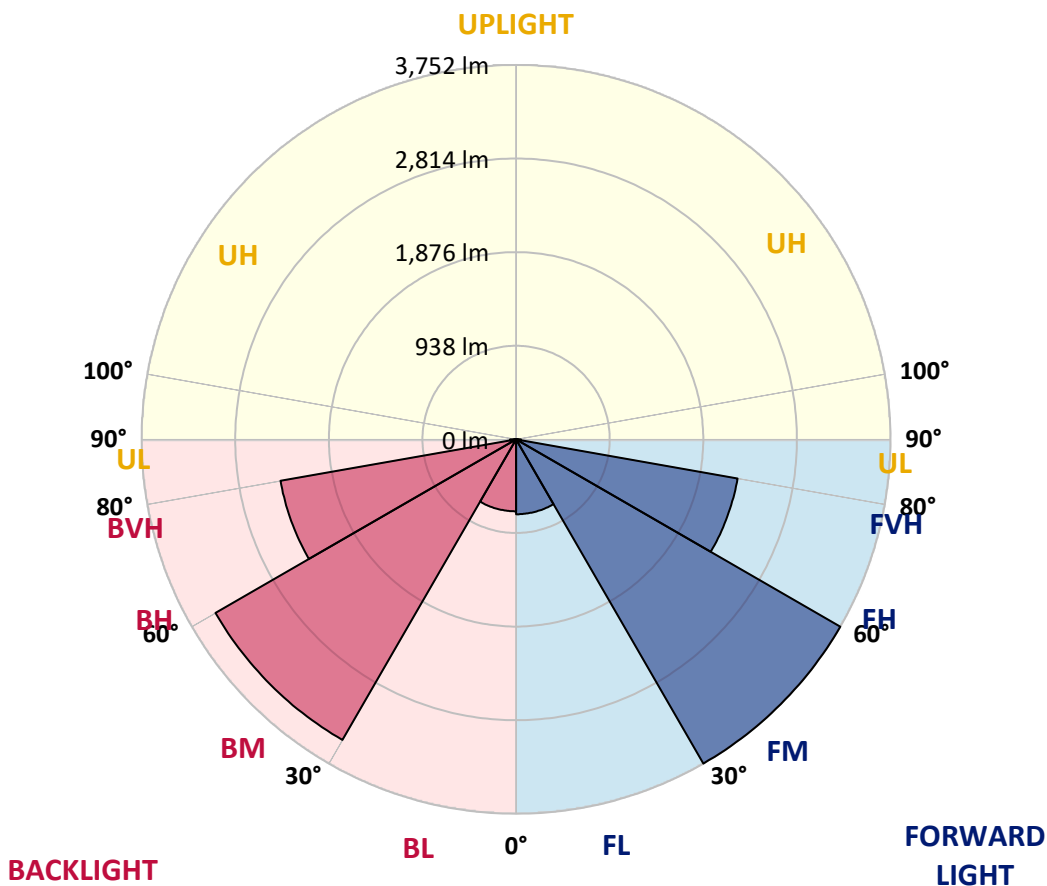
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	750.7	5.6			
FM (30°-60°)	3752.4	27.9			
FH (60°-80°)	2254.2	16.7			G2/5000
FVH (80°-90°)	48.8	0.4			G1/100
BL (0°-30°)	721.5	5.4	B2/1000		
BM (30°-60°)	3479.1	25.8	B3/5000		
BH (60°-80°)	2397.2	17.8	B3/2500		G3/2500
BVH (80°-90°)	59.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1335.1	1337.0	1339.8	1345.5	1351.1	1359.5	1368.0	1367.0	1370.8	1373.6	1376.4
5°	1327.6	1329.5	1334.2	1341.7	1350.1	1364.2	1382.0	1389.5	1395.2	1405.5	1414.8
7.5°	1343.6	1347.3	1353.9	1364.2	1377.3	1395.2	1419.5	1432.7	1441.1	1459.8	1475.8
10°	1365.1	1369.8	1383.0	1402.7	1422.3	1449.5	1480.5	1500.2	1505.8	1530.2	1560.2
12.5°	1385.8	1391.4	1413.0	1448.6	1484.2	1520.8	1557.4	1581.7	1583.6	1616.4	1650.2
15°	1418.6	1423.3	1452.3	1498.3	1552.7	1603.3	1648.3	1665.2	1672.7	1696.1	1738.3
17.5°	1490.8	1496.4	1533.9	1583.6	1640.8	1694.2	1739.3	1753.3	1753.3	1773.0	1807.7
20°	1568.6	1574.2	1623.9	1687.7	1757.1	1811.4	1846.1	1833.0	1828.3	1834.0	1858.3
22.5°	1655.8	1666.1	1713.9	1788.0	1873.3	1939.9	1957.7	1918.3	1905.2	1892.1	1897.7
25°	1767.4	1779.6	1826.5	1905.2	1988.7	2059.0	2069.3	2008.3	2000.8	1954.9	1938.0
27.5°	1895.8	1905.2	1963.3	2041.2	2119.0	2178.1	2189.3	2114.3	2089.0	2025.2	1985.8
30°	2061.8	2070.2	2120.9	2197.7	2265.2	2306.5	2320.6	2217.4	2197.7	2100.2	2039.3
32.5°	2242.7	2246.5	2298.1	2372.1	2432.1	2471.5	2451.8	2331.8	2302.8	2193.1	2109.6
35°	2450.0	2450.0	2516.5	2576.5	2624.4	2635.6	2598.1	2461.2	2427.5	2308.4	2204.3
37.5°	2653.4	2659.0	2720.9	2792.2	2834.4	2832.5	2764.1	2614.0	2575.6	2446.2	2330.9
40°	2873.8	2885.9	2947.8	3027.5	3067.8	3062.2	2957.2	2790.3	2750.9	2598.1	2485.6
42.5°	3076.3	3096.0	3168.2	3249.7	3293.8	3290.0	3180.3	2992.8	2954.4	2781.9	2669.4
45°	3237.5	3258.2	3348.2	3461.6	3532.0	3525.4	3414.7	3202.9	3156.0	2975.0	2851.3
47.5°	3379.1	3400.7	3501.0	3621.0	3732.6	3743.8	3642.6	3414.7	3365.1	3182.2	3042.5
50°	3487.9	3498.2	3610.7	3742.0	3871.4	3934.2	3846.0	3627.6	3567.6	3386.6	3229.1
52.5°	3479.4	3493.5	3632.3	3810.4	3983.9	4087.0	4026.1	3828.2	3770.1	3573.2	3419.4
55°	3307.9	3321.9	3486.9	3746.7	4046.7	4198.6	4192.0	4019.5	3977.3	3763.5	3617.3
57.5°	3057.5	3088.5	3252.5	3532.9	3964.2	4287.7	4313.9	4193.9	4149.8	3950.1	3813.2
60°	2609.3	2650.6	2840.0	3203.8	3699.8	4257.7	4444.2	4341.1	4313.9	4123.6	3990.4
62.5°	1895.8	1925.8	2178.1	2655.3	3307.9	4043.9	4553.9	4493.0	4472.4	4279.2	4150.8
65°	1135.4	1203.9	1406.4	1878.0	2668.4	3640.7	4493.9	4691.8	4670.2	4439.5	4287.7
67.5°	574.8	605.7	685.4	1018.2	1794.6	3012.5	4193.0	4815.5	4841.8	4576.4	4336.4
70°	356.3	364.7	387.2	502.6	896.3	1979.3	3428.8	4493.0	4621.4	4554.9	4209.8
72.5°	286.0	287.8	291.6	313.2	430.4	925.4	2167.7	3518.8	3750.4	4253.9	4028.9
75°	237.2	238.2	239.1	245.7	268.2	377.9	1054.8	2418.1	2689.0	3615.4	3735.4
77.5°	190.3	185.6	189.4	192.2	197.8	211.0	363.8	1290.1	1564.9	2373.1	2888.8
80°	123.8	121.9	129.4	132.2	137.8	146.3	194.1	437.9	531.6	863.5	918.9
82.5°	66.6	62.8	78.8	75.9	78.8	85.3	114.4	160.3	180.0	260.7	220.3
85°	20.6	20.6	21.6	25.3	30.9	30.0	49.7	78.8	87.2	111.6	82.5
87.5°	3.8	3.8	3.8	3.8	3.8	4.7	10.3	15.9	21.6	38.4	29.1
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°	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3	1363.3
2.5°	1382.0	1373.6	1378.3	1381.1	1380.2	1378.3	1368.9	1367.0	1362.3	1354.8	1353.0
5°	1423.3	1413.9	1414.8	1412.0	1402.7	1390.5	1369.8	1359.5	1351.1	1341.7	1340.8
7.5°	1488.0	1477.7	1474.8	1461.7	1435.5	1407.3	1374.5	1355.8	1341.7	1329.5	1327.6
10°	1570.5	1560.2	1550.8	1519.9	1476.7	1439.2	1396.1	1368.9	1348.3	1333.3	1330.5
12.5°	1662.4	1653.9	1630.5	1585.5	1533.9	1489.9	1445.8	1412.0	1382.0	1359.5	1356.7
15°	1764.6	1745.8	1710.2	1652.1	1603.3	1567.7	1514.2	1468.3	1420.5	1390.5	1383.9
17.5°	1835.8	1819.9	1777.7	1721.4	1683.0	1652.1	1589.2	1523.6	1458.9	1414.8	1405.5
20°	1886.5	1869.6	1821.8	1780.5	1768.3	1742.1	1668.9	1593.0	1518.0	1463.6	1451.4
22.5°	1923.0	1905.2	1856.5	1835.8	1852.7	1848.0	1776.8	1690.5	1601.4	1536.7	1521.7
25°	1957.7	1940.8	1897.7	1905.2	1950.2	1964.3	1887.4	1787.1	1685.8	1609.9	1592.0
27.5°	1990.5	1969.0	1949.3	1990.5	2054.3	2080.5	1999.0	1885.5	1775.8	1698.0	1683.9
30°	2041.2	2015.8	2013.0	2073.0	2174.3	2196.8	2106.8	1993.3	1884.6	1805.8	1788.0
32.5°	2104.9	2081.5	2083.4	2173.4	2290.6	2309.3	2232.4	2126.5	2017.7	1939.0	1914.6
35°	2191.2	2162.1	2178.1	2288.7	2406.8	2441.5	2379.6	2291.5	2185.6	2104.9	2077.7
37.5°	2310.3	2268.1	2300.9	2417.1	2536.2	2587.8	2540.0	2474.3	2369.3	2287.8	2262.4
40°	2462.1	2427.5	2440.6	2569.0	2691.9	2753.7	2723.7	2659.0	2555.0	2469.6	2440.6
42.5°	2642.2	2607.5	2602.8	2739.7	2862.5	2956.3	2927.2	2868.1	2760.3	2662.8	2634.7
45°	2818.4	2786.6	2793.1	2932.8	3070.6	3172.8	3143.8	3074.4	2957.2	2844.7	2822.2
47.5°	3002.2	2976.0	2981.6	3129.7	3281.6	3383.8	3347.2	3262.9	3126.0	3006.0	2978.8
50°	3190.7	3160.7	3169.1	3324.7	3488.8	3585.4	3529.1	3404.4	3253.5	3136.3	3112.8
52.5°	3378.2	3342.6	3364.1	3511.3	3681.0	3757.9	3653.8	3502.9	3356.6	3240.4	3214.1
55°	3593.8	3556.3	3532.9	3690.4	3858.2	3890.1	3747.6	3571.3	3397.9	3265.7	3249.7
57.5°	3790.7	3758.9	3714.8	3872.3	3996.1	3972.6	3819.8	3552.6	3297.5	3127.8	3105.3
60°	3967.0	3939.8	3901.4	4035.4	4091.7	4039.2	3761.7	3330.4	3050.0	2872.8	2862.5
62.5°	4129.2	4100.1	4064.5	4178.9	4171.4	4049.5	3497.3	2989.1	2614.0	2423.7	2406.8
65°	4257.7	4231.4	4221.1	4311.1	4298.9	3847.9	3085.7	2430.3	1909.9	1695.2	1688.6
67.5°	4294.2	4283.9	4339.2	4492.1	4301.7	3442.9	2420.0	1611.7	1025.7	822.3	810.1
70°	4157.3	4156.4	4314.8	4533.3	3911.7	2630.0	1428.0	726.6	515.7	457.6	450.0
72.5°	3979.2	3976.4	4102.0	3910.7	2900.9	1439.2	601.0	389.1	322.5	306.6	306.6
75°	3686.7	3679.2	3773.9	2975.0	1631.4	541.9	318.8	267.2	253.2	250.3	250.3
77.5°	3005.0	2942.2	2793.1	1838.6	569.1	266.3	211.0	210.0	201.6	200.6	200.6
80°	988.2	988.2	1148.6	701.3	251.3	164.1	149.1	156.6	148.1	142.5	141.6
82.5°	161.3	222.2	316.0	200.6	136.0	102.2	91.9	97.5	102.2	81.6	81.6
85°	63.8	83.4	121.9	93.8	62.8	41.3	44.1	48.8	43.1	37.5	36.6
87.5°	24.4	30.0	43.1	22.5	13.1	7.5	4.7	4.7	3.8	3.8	3.8
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)