

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: P634543

Luminaire Tested: GWS-SA3B-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3B-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

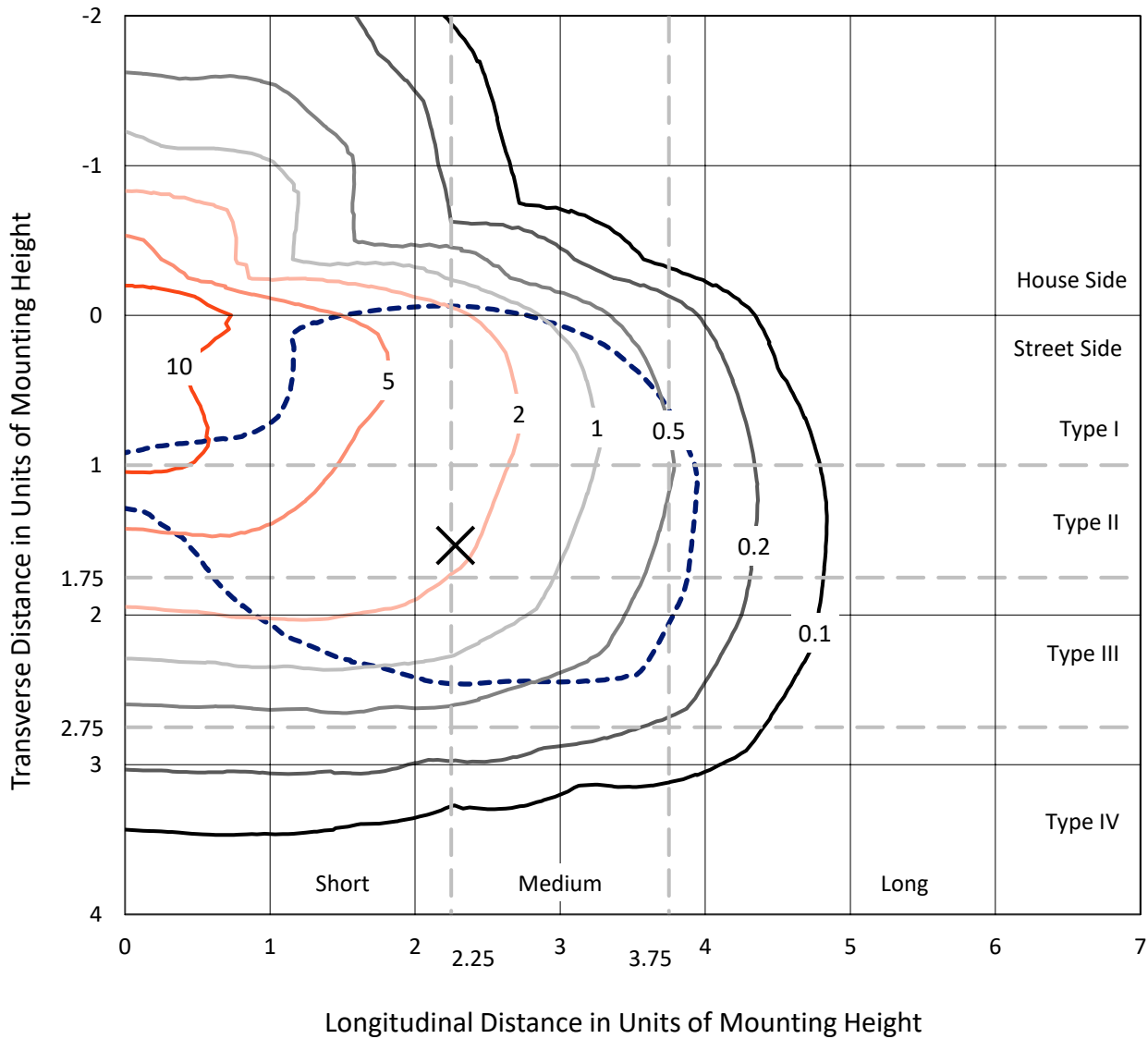
Lumens per Lamp: N/A  
Luminaire Lumens: 8399.9 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

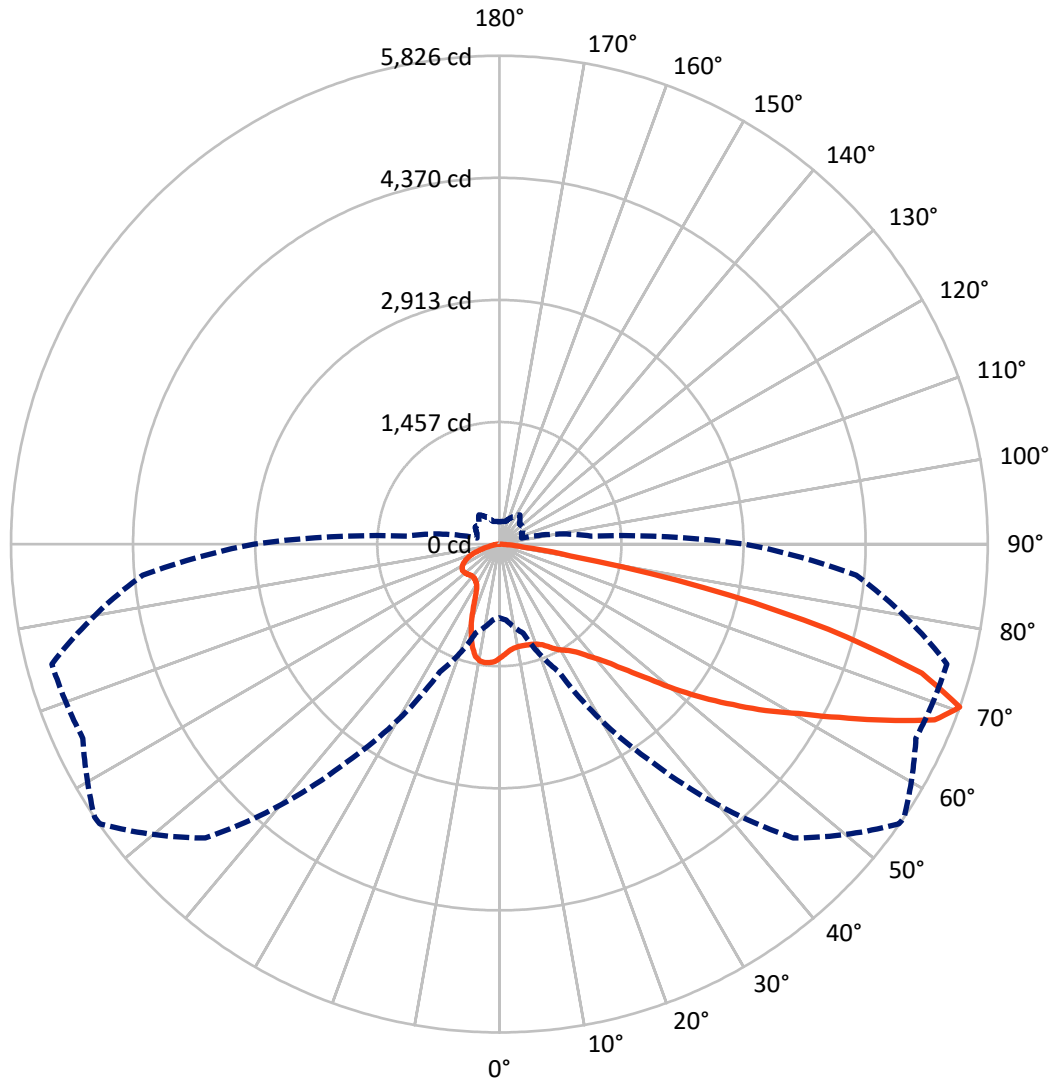
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1614.9	0.0	1614.9
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	6785.0	0.0	6785.0
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	8399.9	0.0	8399.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.5	1.5
10°-20°	340.0	4.0
20°-30°	562.1	6.7
30°-40°	840.4	10.0
40°-50°	1250.6	14.9
50°-60°	1777.9	21.2
60°-70°	2202.0	26.2
70°-80°	1215.9	14.5
80°-90°	85.6	1.0
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°	8399.9	100.0
0°-180°	8399.9	100.0

**Coefficient of Utilization**



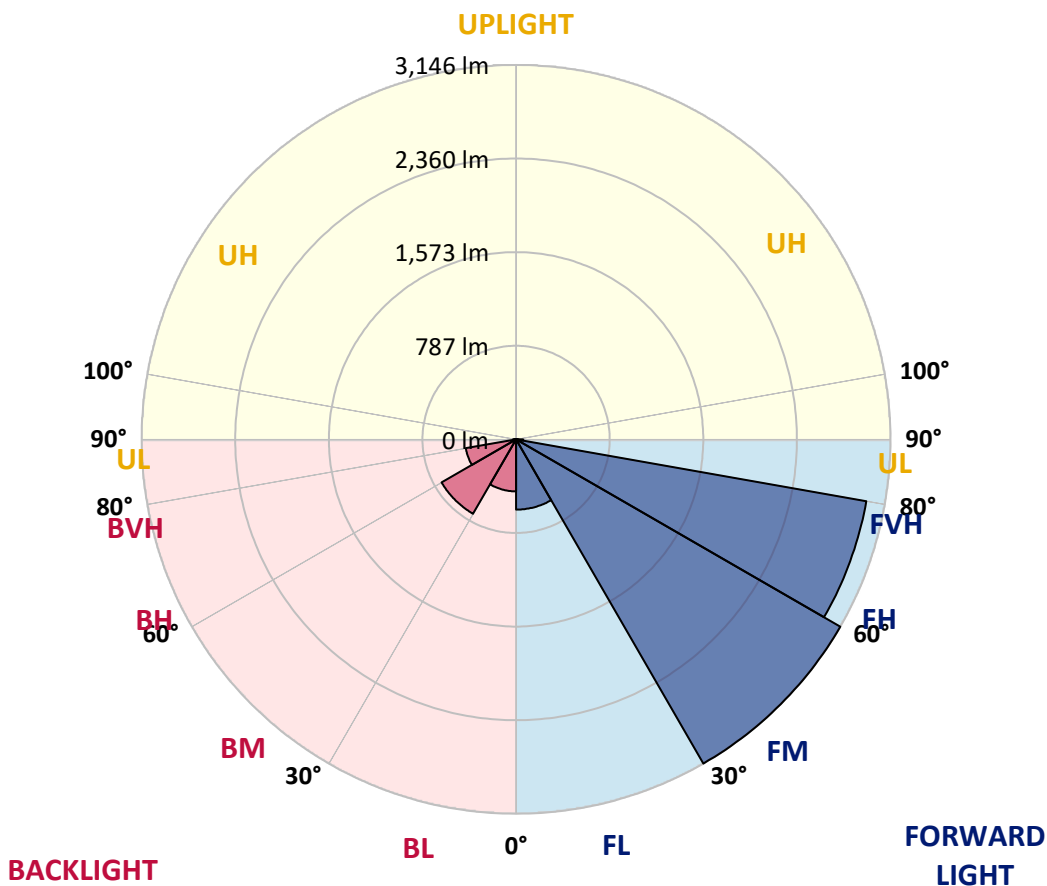
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	590.3	7.0			
FM (30°-60°)	3146.5	37.5			
FH (60°-80°)	2988.7	35.6			G2/5000
FVH (80°-90°)	59.5	0.7			G1/100
BL (0°-30°)	437.2	5.2	B1/500		
BM (30°-60°)	722.4	8.6	B1/1000		
BH (60°-80°)	429.2	5.1	B1/500		G1/500
BVH (80°-90°)	26.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9
2.5°	1268.8	1261.7	1270.0	1274.1	1284.8	1300.2	1313.8	1314.4	1321.5	1338.7	1355.3
5°	1211.3	1207.8	1210.2	1222.6	1233.9	1253.4	1274.1	1275.9	1296.0	1329.8	1363.0
7.5°	1166.9	1162.2	1171.1	1187.1	1201.3	1223.2	1250.4	1252.8	1281.2	1332.2	1383.1
10°	1102.9	1099.4	1116.0	1137.3	1168.1	1204.2	1240.4	1243.3	1280.6	1347.6	1418.7
12.5°	1075.1	1075.1	1082.2	1102.4	1136.1	1184.1	1238.6	1243.3	1290.1	1371.3	1464.3
15°	1118.3	1121.3	1115.4	1114.2	1127.8	1173.4	1241.0	1248.1	1307.9	1395.6	1509.3
17.5°	1205.4	1208.4	1193.0	1168.7	1155.1	1183.5	1249.8	1257.5	1326.8	1422.2	1557.9
20°	1327.4	1331.0	1297.2	1259.9	1213.1	1212.5	1267.0	1274.1	1351.1	1451.2	1609.4
22.5°	1470.2	1472.6	1429.9	1370.7	1299.0	1266.4	1296.6	1303.7	1382.5	1491.5	1665.1
25°	1635.5	1642.6	1591.0	1505.1	1408.0	1340.5	1345.8	1354.1	1438.8	1545.4	1730.8
27.5°	1812.0	1820.9	1761.6	1666.9	1533.0	1422.2	1409.2	1416.3	1498.6	1578.6	1765.8
30°	1992.6	1999.2	1939.9	1831.5	1667.4	1514.6	1462.5	1466.6	1524.7	1594.6	1801.3
32.5°	2193.4	2188.1	2131.3	2006.3	1822.6	1625.4	1512.3	1511.1	1553.7	1626.6	1852.3
35°	2381.8	2389.5	2329.1	2191.1	1993.2	1762.2	1586.9	1582.1	1615.3	1678.7	1923.9
37.5°	2609.9	2607.5	2535.2	2386.0	2164.4	1893.1	1691.7	1683.4	1695.3	1759.9	2024.0
40°	2772.8	2789.3	2742.5	2603.3	2364.6	2054.2	1814.3	1796.0	1798.9	1860.0	2157.9
42.5°	2906.0	2921.4	2926.2	2837.3	2593.9	2253.3	1967.2	1948.8	1950.6	2037.1	2322.6
45°	3008.5	3029.2	3096.2	3070.1	2852.1	2483.1	2173.9	2154.9	2156.1	2252.1	2521.6
47.5°	3050.6	3073.1	3208.7	3270.9	3126.4	2757.9	2431.0	2403.1	2407.3	2513.3	2749.1
50°	3036.9	3067.2	3250.8	3425.5	3356.2	3037.5	2738.4	2718.9	2702.9	2856.9	2996.1
52.5°	2919.7	2952.8	3246.6	3523.8	3544.0	3301.7	3055.9	3044.6	3041.1	3221.8	3272.1
55°	2574.3	2630.0	3103.9	3549.9	3690.9	3550.5	3400.0	3381.1	3399.5	3612.7	3551.1
57.5°	2383.0	2424.5	2824.3	3520.9	3811.1	3787.4	3743.6	3745.4	3766.1	4037.4	3889.3
60°	2274.0	2322.6	2669.1	3441.5	3926.6	4075.3	4103.2	4103.2	4140.5	4495.3	4232.9
62.5°	2129.5	2178.6	2524.0	3288.7	4033.3	4414.1	4555.1	4553.3	4568.1	4986.3	4568.7
65°	1836.3	1881.9	2232.5	3047.6	4085.4	4787.3	5068.7	5063.3	5033.7	5423.5	4790.9
67.5°	1333.4	1376.6	1710.1	2589.1	3897.6	5088.2	5597.6	5600.0	5422.9	5698.9	4802.7
70°	879.0	908.7	1099.4	1681.7	3169.6	4958.5	5819.2	5826.3	5482.7	5527.2	4274.3
72.5°	548.5	569.2	686.5	1002.8	1873.0	3924.9	5250.5	5270.1	4932.4	4857.2	3512.0
75°	364.3	378.5	456.7	584.6	866.6	2124.1	3991.2	4054.0	3953.3	3807.6	2447.0
77.5°	219.2	231.0	290.8	371.4	383.8	829.9	2329.7	2492.0	2506.2	1987.9	1024.8
80°	100.1	113.7	160.5	212.1	204.4	289.1	821.6	859.5	1014.1	631.4	323.4
82.5°	59.2	65.2	106.6	105.4	87.1	140.4	295.6	303.3	257.7	231.0	138.0
85°	23.7	27.8	45.0	39.7	32.0	45.6	111.4	116.7	112.0	100.7	50.9
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	10.1	10.7	15.4	27.8	15.4
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°	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9	1355.9
2.5°	1365.9	1362.4	1380.2	1393.8	1399.7	1405.6	1400.3	1398.5	1398.5	1386.7	1380.8
5°	1380.8	1382.5	1406.8	1418.1	1418.1	1413.3	1399.1	1389.0	1385.5	1370.1	1365.9
7.5°	1408.6	1416.3	1438.8	1438.2	1421.6	1395.6	1360.0	1332.8	1307.9	1297.2	1290.7
10°	1454.2	1464.3	1479.7	1454.8	1408.6	1339.9	1264.7	1205.4	1169.9	1141.4	1141.4
12.5°	1506.3	1515.8	1512.8	1455.4	1360.0	1231.5	1123.1	1055.0	1005.2	979.1	979.1
15°	1558.5	1566.2	1534.2	1428.1	1258.7	1087.5	969.1	887.3	844.1	819.8	819.8
17.5°	1611.2	1610.6	1543.1	1365.4	1126.6	928.2	812.1	748.7	733.9	729.8	729.2
20°	1662.1	1648.5	1531.8	1260.5	973.2	767.7	694.2	698.4	720.3	729.8	731.0
22.5°	1719.6	1685.8	1498.6	1126.6	799.1	656.3	661.1	695.4	727.4	741.6	743.4
25°	1778.2	1717.8	1442.9	969.7	653.4	615.4	652.2	690.7	726.8	745.2	746.9
27.5°	1801.9	1717.8	1348.2	787.8	575.8	598.3	638.5	675.9	713.8	735.1	739.2
30°	1821.5	1703.0	1215.5	623.7	543.8	581.7	616.6	651.0	688.3	714.4	719.1
32.5°	1848.7	1690.0	1055.0	524.2	529.0	565.7	590.0	619.0	652.8	669.9	668.2
35°	1880.7	1669.8	861.3	476.8	516.5	552.1	569.2	586.4	571.0	570.4	572.2
37.5°	1926.3	1652.0	692.4	455.5	508.2	542.6	556.8	520.1	498.8	489.9	486.3
40°	1992.0	1644.9	546.1	443.1	507.0	542.0	531.9	475.1	446.0	415.2	414.6
42.5°	2075.0	1639.6	451.4	437.1	511.2	555.6	497.6	445.4	385.6	372.0	370.8
45°	2181.6	1631.3	404.0	436.0	521.3	566.3	494.0	404.6	363.7	357.8	357.8
47.5°	2310.1	1618.3	382.7	436.0	532.5	561.5	483.4	395.7	353.6	360.1	364.3
50°	2457.6	1601.7	371.4	434.8	543.8	561.5	460.8	393.9	351.3	385.0	398.6
52.5°	2615.2	1582.7	363.7	430.0	551.5	562.1	462.0	399.8	353.6	390.9	402.2
55°	2789.3	1579.8	353.0	420.0	553.8	546.7	465.0	412.9	357.2	354.2	354.8
57.5°	3009.1	1615.3	345.3	405.2	544.4	515.3	470.9	422.3	353.0	353.6	357.8
60°	3238.9	1682.3	351.9	390.9	524.8	485.7	475.1	417.6	332.9	323.4	324.6
62.5°	3434.4	1733.2	357.2	384.4	496.4	459.7	470.9	406.9	321.6	319.3	324.6
65°	3516.1	1691.1	344.2	370.8	454.9	427.7	462.0	393.3	312.2	303.3	303.9
67.5°	3425.5	1493.9	318.7	340.6	408.1	386.8	447.8	375.5	299.1	288.5	286.1
70°	2926.2	1097.6	274.8	292.6	351.3	338.8	425.9	352.4	278.4	270.7	265.4
72.5°	2358.1	777.2	228.1	232.8	275.4	285.5	388.0	323.4	254.7	232.8	225.1
75°	1641.4	488.1	190.1	185.4	199.0	218.0	302.7	268.3	219.8	196.7	189.5
77.5°	706.1	250.6	148.7	146.3	132.7	151.0	232.2	223.9	184.2	157.6	153.4
80°	236.3	145.1	107.2	103.1	88.3	106.0	163.5	178.9	144.5	116.7	109.6
82.5°	118.5	84.1	68.1	61.6	59.2	66.9	96.6	111.4	100.1	80.6	68.1
85°	58.0	48.0	37.3	36.7	30.8	29.0	40.3	47.4	45.0	33.2	31.4
87.5°	21.3	19.0	11.8	9.5	5.9	4.1	2.4	2.4	1.8	1.8	1.8
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)