

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: P632288

Luminaire Tested: GWS-SA2C-735-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632288  
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-SA2C-735-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9279.9 lumens  
Efficiency: N/A  
Efficacy: 146.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 63.2  
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

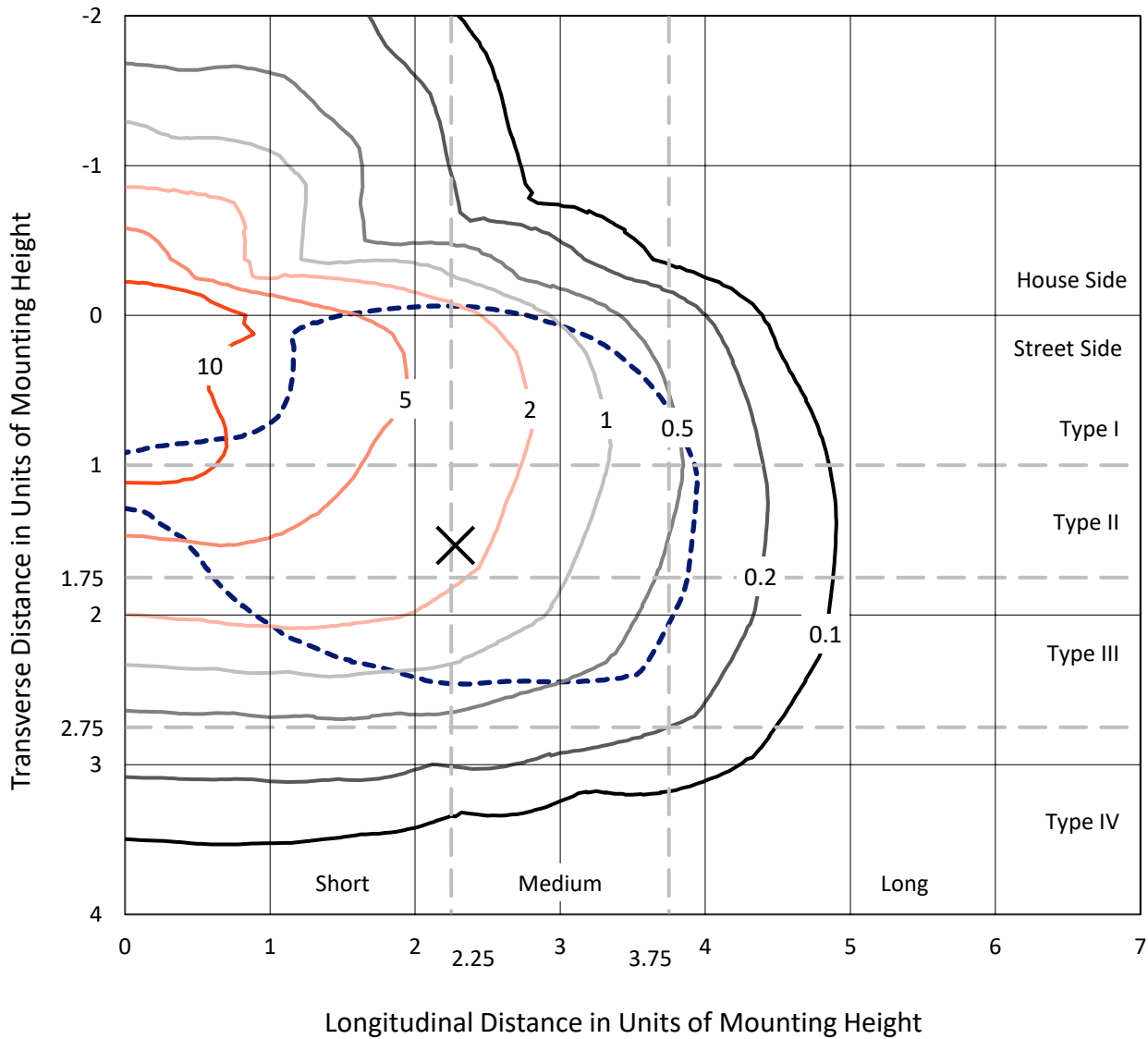


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### Iso-Footcandle Lines of Horizontal Illumination

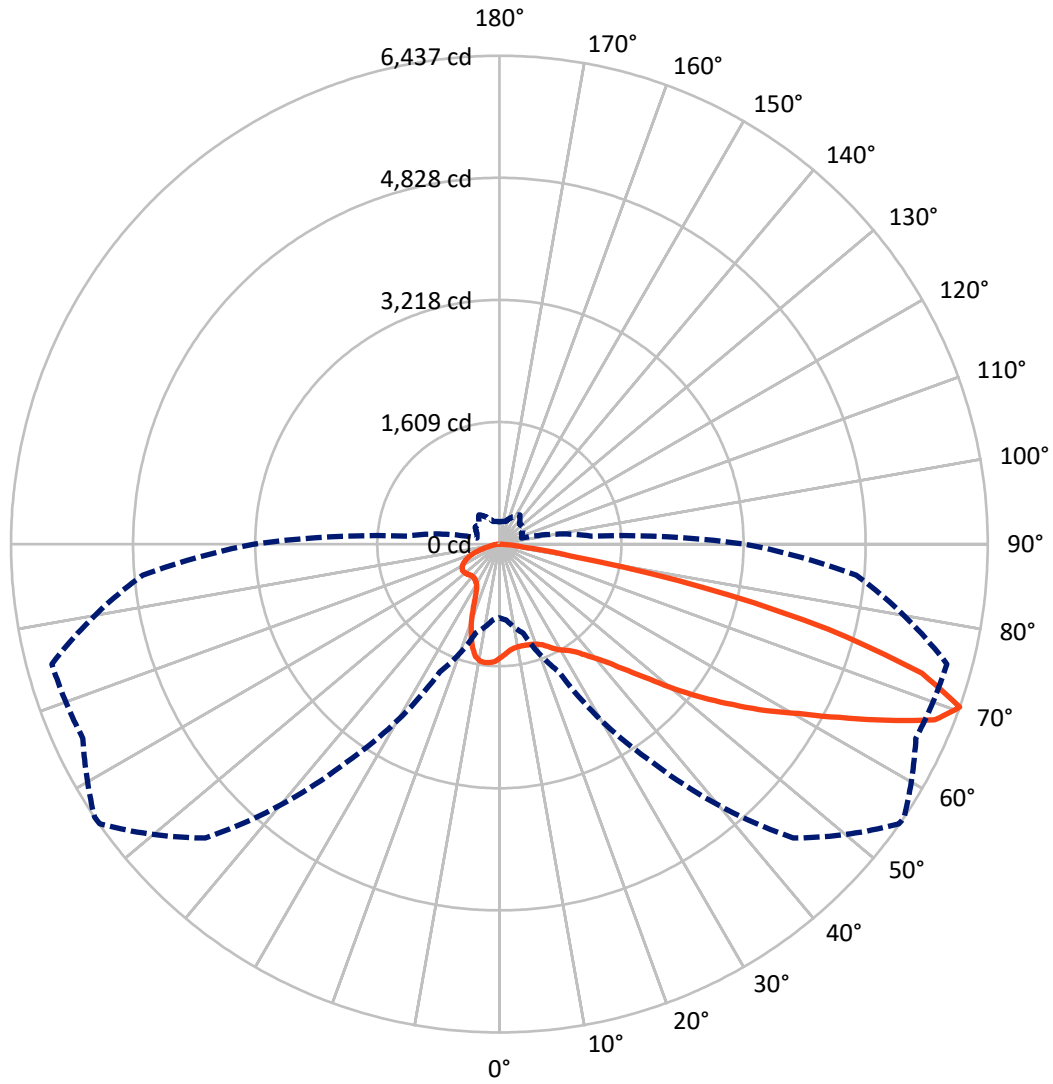
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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	1784.1	0.0	1784.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	7495.8	0.0	7495.8
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	9279.9	0.0	9279.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.6	1.5
10°-20°	375.6	4.0
20°-30°	620.9	6.7
30°-40°	928.4	10.0
40°-50°	1381.6	14.9
50°-60°	1964.2	21.2
60°-70°	2432.7	26.2
70°-80°	1343.3	14.5
80°-90°	94.6	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°	9279.9	100.0
0°-180°	9279.9	100.0

**Coefficient of Utilization**



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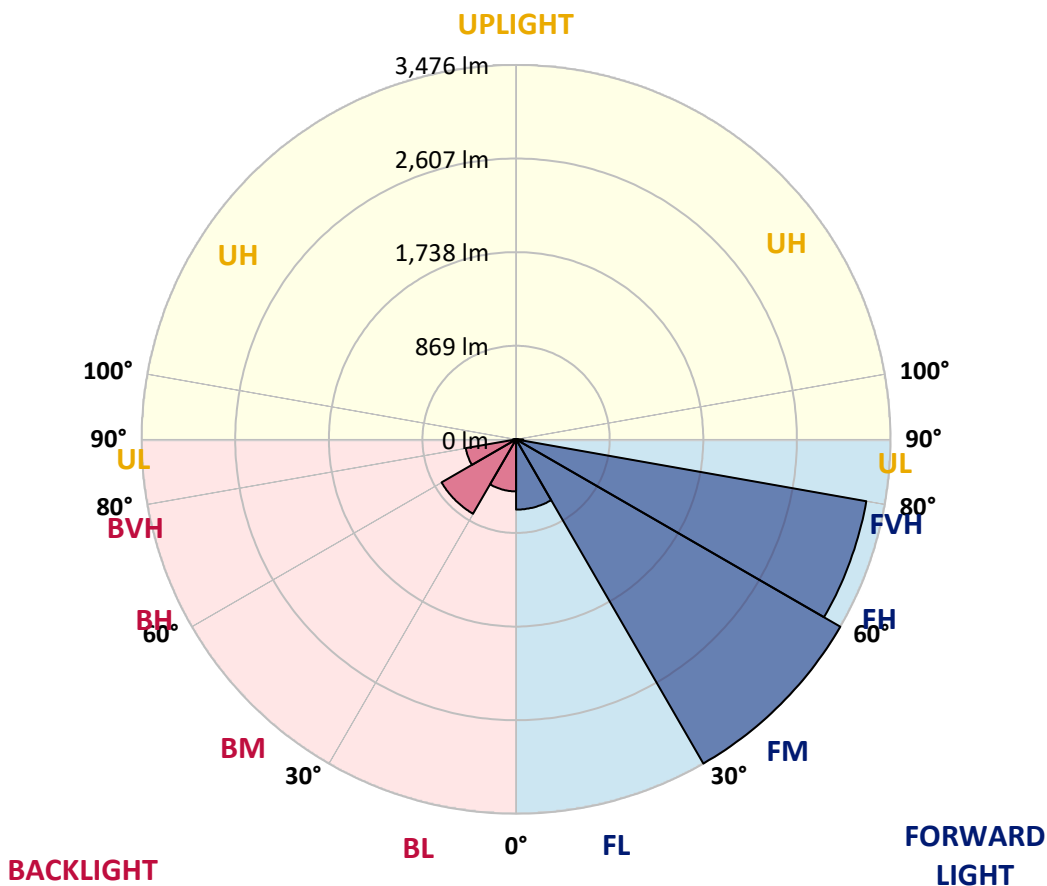
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.2	7.0			
FM (30°-60°)	3476.1	37.5			
FH (60°-80°)	3301.8	35.6			G2/5000
FVH (80°-90°)	65.7	0.7			G1/100
BL (0°-30°)	483.0	5.2	B1/500		
BM (30°-60°)	798.1	8.6	B1/1000		
BH (60°-80°)	474.2	5.1	B1/500		G1/500
BVH (80°-90°)	28.9	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°	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1401.7	1393.9	1403.0	1407.6	1419.4	1436.4	1451.5	1452.1	1460.0	1478.9	1497.3
5°	1338.2	1334.3	1336.9	1350.7	1363.1	1384.7	1407.6	1409.6	1431.8	1469.1	1505.8
7.5°	1289.2	1283.9	1293.7	1311.4	1327.1	1351.3	1381.4	1384.1	1415.5	1471.7	1528.0
10°	1218.5	1214.6	1232.9	1256.4	1290.5	1330.4	1370.3	1373.6	1414.8	1488.8	1567.3
12.5°	1187.7	1187.7	1195.6	1217.8	1255.1	1308.1	1368.3	1373.6	1425.3	1514.9	1617.7
15°	1235.5	1238.8	1232.2	1230.9	1246.0	1296.4	1371.0	1378.8	1444.9	1541.8	1667.4
17.5°	1331.7	1335.0	1318.0	1291.1	1276.1	1307.5	1380.8	1389.3	1465.9	1571.2	1721.1
20°	1466.5	1470.4	1433.1	1391.9	1340.2	1339.6	1399.8	1407.6	1492.7	1603.3	1778.0
22.5°	1624.2	1626.8	1579.7	1514.3	1435.1	1399.1	1432.5	1440.3	1527.4	1647.8	1839.5
25°	1806.8	1814.6	1757.7	1662.8	1555.5	1480.9	1486.8	1496.0	1589.5	1707.3	1912.2
27.5°	2001.8	2011.6	1946.2	1841.5	1693.6	1571.2	1556.8	1564.7	1655.6	1744.0	1950.8
30°	2201.4	2208.6	2143.2	2023.4	1842.1	1673.3	1615.7	1620.3	1684.4	1761.6	1990.0
32.5°	2423.2	2417.3	2354.5	2216.4	2013.6	1795.7	1670.7	1669.4	1716.5	1797.0	2046.3
35°	2631.3	2639.8	2573.1	2420.6	2202.1	1946.8	1753.1	1747.9	1784.5	1854.6	2125.5
37.5°	2883.3	2880.7	2800.8	2635.9	2391.2	2091.5	1869.0	1859.8	1872.9	1944.2	2236.1
40°	3063.2	3081.6	3029.9	2876.1	2612.4	2269.5	2004.4	1984.1	1987.4	2054.8	2384.0
42.5°	3210.5	3227.5	3232.7	3134.6	2865.6	2489.3	2173.3	2153.0	2154.9	2250.5	2565.9
45°	3323.7	3346.6	3420.5	3391.7	3150.9	2743.2	2401.6	2380.7	2382.0	2488.0	2785.8
47.5°	3370.2	3395.0	3544.9	3613.6	3453.9	3046.9	2685.7	2654.9	2659.5	2776.6	3037.1
50°	3355.1	3388.5	3591.3	3784.4	3707.8	3355.8	3025.3	3003.7	2986.0	3156.2	3309.9
52.5°	3225.5	3262.2	3586.8	3893.0	3915.3	3647.6	3376.0	3363.6	3359.7	3559.3	3614.9
55°	2844.0	2905.5	3429.0	3921.8	4077.6	3922.5	3756.2	3735.3	3755.6	3991.2	3923.1
57.5°	2632.6	2678.5	3120.2	3889.7	4210.4	4184.2	4135.8	4137.8	4160.7	4460.4	4296.8
60°	2512.2	2565.9	2948.7	3802.1	4338.0	4502.3	4533.0	4533.0	4574.2	4966.2	4676.3
62.5°	2352.6	2406.9	2788.4	3633.2	4455.8	4876.6	5032.3	5030.4	5046.7	5508.7	5047.4
65°	2028.6	2079.0	2466.4	3366.9	4513.4	5288.9	5599.7	5593.8	5561.1	5991.7	5292.8
67.5°	1473.1	1520.8	1889.2	2860.4	4305.9	5621.3	6184.1	6186.7	5991.0	6296.0	5305.9
70°	971.1	1003.8	1214.6	1857.8	3501.7	5478.0	6428.8	6436.7	6057.1	6106.2	4722.1
72.5°	606.0	628.9	758.4	1107.9	2069.2	4336.0	5800.6	5822.2	5449.2	5366.1	3879.9
75°	402.5	418.2	504.5	645.9	957.4	2346.7	4409.3	4478.7	4367.5	4206.5	2703.3
77.5°	242.1	255.2	321.3	410.3	424.1	916.8	2573.8	2753.1	2768.8	2196.2	1132.1
80°	110.6	125.6	177.3	234.3	225.8	319.3	907.7	949.5	1120.3	697.6	357.3
82.5°	65.4	72.0	117.8	116.5	96.2	155.1	326.5	335.1	284.7	255.2	152.5
85°	26.2	30.8	49.7	43.8	35.3	50.4	123.0	128.9	123.7	111.2	56.3
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	11.1	11.8	17.0	30.8	17.0
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°	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1509.0	1505.1	1524.7	1539.8	1546.3	1552.9	1547.0	1545.0	1545.0	1531.9	1525.4
5°	1525.4	1527.4	1554.2	1566.6	1566.6	1561.4	1545.7	1534.6	1530.6	1513.6	1509.0
7.5°	1556.2	1564.7	1589.5	1588.9	1570.6	1541.8	1502.5	1472.4	1444.9	1433.1	1425.9
10°	1606.5	1617.7	1634.7	1607.2	1556.2	1480.2	1397.1	1331.7	1292.4	1261.0	1261.0
12.5°	1664.1	1674.6	1671.3	1607.9	1502.5	1360.5	1240.7	1165.5	1110.5	1081.7	1081.7
15°	1721.7	1730.2	1694.9	1577.8	1390.6	1201.5	1070.6	980.3	932.5	905.7	905.7
17.5°	1780.0	1779.3	1704.7	1508.4	1244.7	1025.4	897.2	827.2	810.8	806.2	805.6
20°	1836.2	1821.2	1692.3	1392.6	1075.2	848.1	767.0	771.5	795.7	806.2	807.5
22.5°	1899.7	1862.4	1655.6	1244.7	882.8	725.1	730.3	768.3	803.6	819.3	821.3
25°	1964.5	1897.8	1594.1	1071.3	721.8	679.9	720.5	763.0	802.9	823.2	825.2
27.5°	1990.7	1897.8	1489.4	870.4	636.1	660.9	705.4	746.7	788.6	812.1	816.7
30°	2012.3	1881.4	1342.8	689.1	600.7	642.6	681.2	719.2	760.4	789.2	794.4
32.5°	2042.4	1867.0	1165.5	579.1	584.4	625.0	651.8	683.8	721.1	740.1	738.2
35°	2077.7	1844.7	951.5	526.8	570.6	609.9	628.9	647.9	630.8	630.2	632.1
37.5°	2128.1	1825.1	765.0	503.2	561.5	599.4	615.1	574.6	551.0	541.2	537.3
40°	2200.7	1817.3	603.4	489.5	560.2	598.8	587.7	524.8	492.8	458.7	458.1
42.5°	2292.4	1811.4	498.7	482.9	564.7	613.8	549.7	492.1	426.0	411.0	409.7
45°	2410.2	1802.2	446.3	481.6	575.9	625.6	545.8	447.0	401.8	395.3	395.3
47.5°	2552.2	1787.8	422.7	481.6	588.3	620.4	534.0	437.1	390.7	397.9	402.5
50°	2715.1	1769.5	410.3	480.3	600.7	620.4	509.1	435.2	388.1	425.4	440.4
52.5°	2889.2	1748.6	401.8	475.1	609.2	621.0	510.4	441.7	390.7	431.9	444.3
55°	3081.6	1745.3	390.0	464.0	611.9	604.0	513.7	456.1	394.6	391.3	392.0
57.5°	3324.3	1784.5	381.5	447.6	601.4	569.3	520.2	466.6	390.0	390.7	395.3
60°	3578.3	1858.5	388.7	431.9	579.8	536.6	524.8	461.4	367.8	357.3	358.6
62.5°	3794.2	1914.8	394.6	424.7	548.4	507.8	520.2	449.6	355.3	352.7	358.6
65°	3884.5	1868.3	380.2	409.7	502.6	472.5	510.4	434.5	344.9	335.1	335.7
67.5°	3784.4	1650.4	352.1	376.3	450.9	427.3	494.7	414.9	330.5	318.7	316.1
70°	3232.7	1212.6	303.6	323.3	388.1	374.3	470.5	389.4	307.6	299.1	293.2
72.5°	2605.2	858.6	251.9	257.2	304.3	315.4	428.6	357.3	281.4	257.2	248.7
75°	1813.3	539.2	210.1	204.8	219.9	240.8	334.4	296.4	242.8	217.3	209.4
77.5°	780.0	276.8	164.3	161.6	146.6	166.9	256.5	247.4	203.5	174.1	169.5
80°	261.1	160.3	118.4	113.9	97.5	117.1	180.6	197.6	159.7	128.9	121.1
82.5°	130.9	92.9	75.3	68.1	65.4	73.9	106.7	123.0	110.6	89.0	75.3
85°	64.1	53.0	41.2	40.6	34.0	32.1	44.5	52.4	49.7	36.6	34.7
87.5°	23.6	20.9	13.1	10.5	6.5	4.6	2.6	2.6	2.0	2.0	2.0
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)