

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: P637014

Luminaire Tested: GWS-SA4B-830-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11506 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

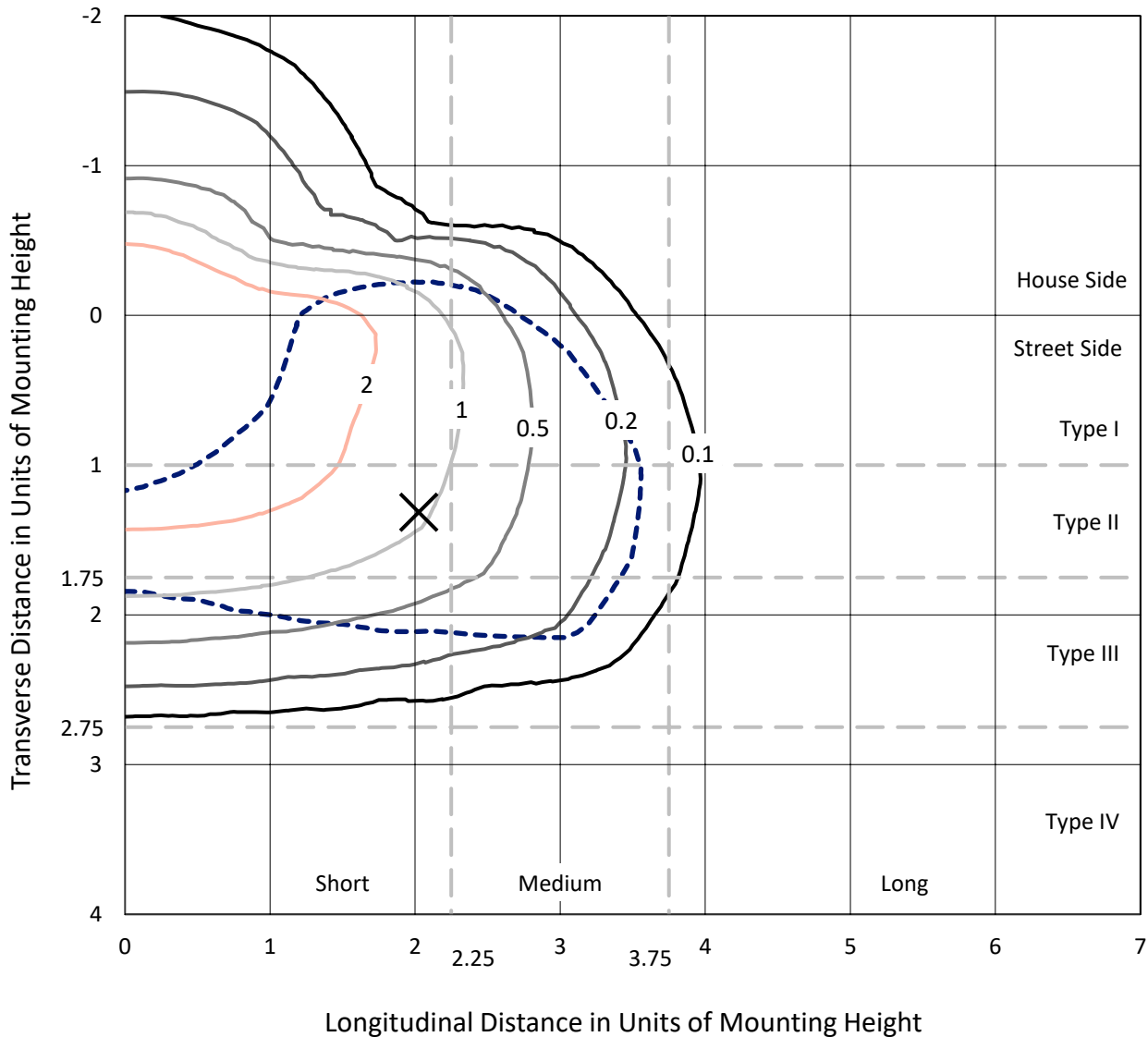
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

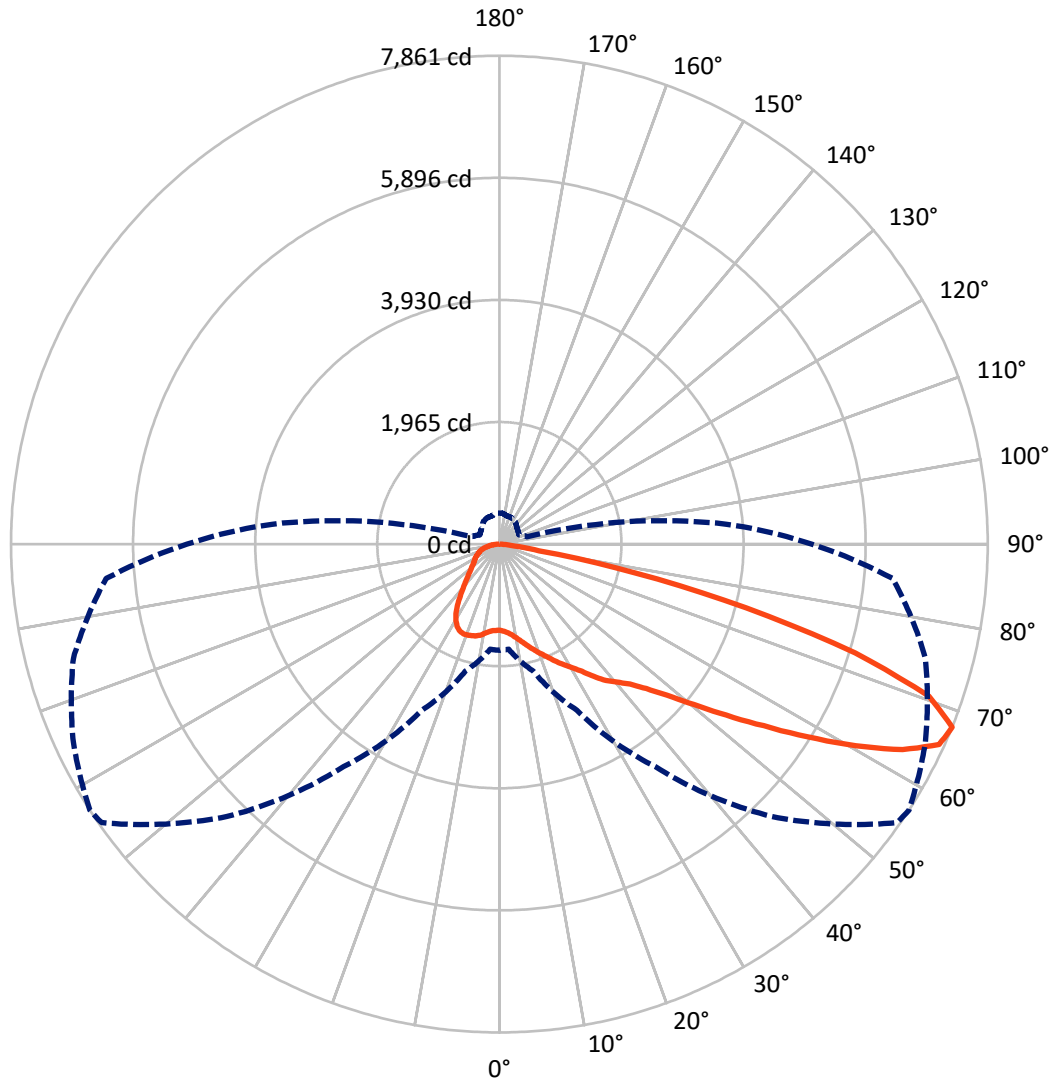
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2529.7	0.0	2529.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	8976.3	0.0	8976.3
	% Fixture	78.0	0.0	78.0
Total	Lumens	11506.0	0.0	11506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.2
10°-20°	455.2	4.0
20°-30°	811.5	7.1
30°-40°	1179.9	10.3
40°-50°	1707.7	14.8
50°-60°	2672.4	23.2
60°-70°	3117.6	27.1
70°-80°	1301.4	11.3
80°-90°	122.8	1.1
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°	11506.0	100.0
0°-180°	11506.0	100.0

Coefficient of Utilization



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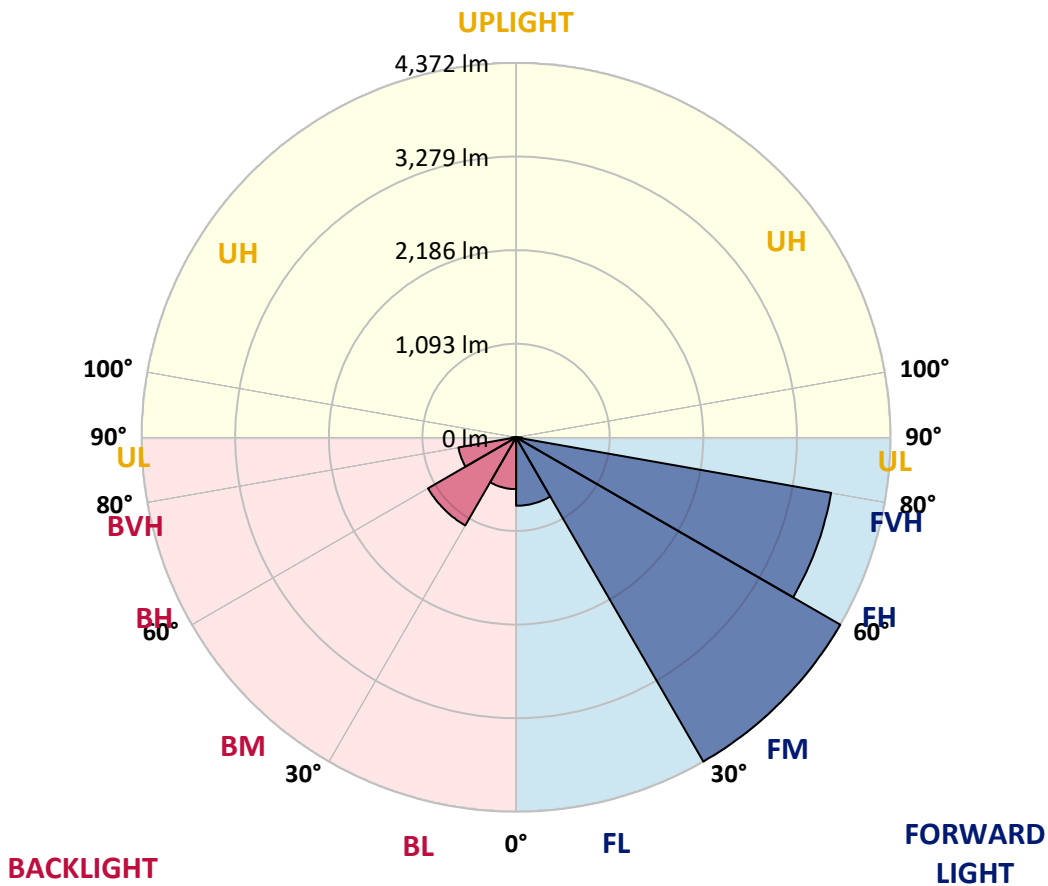
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.2	6.9			
FM (30°-60°)	4372.4	38.0			
FH (60°-80°)	3736.2	32.5			G2/5000
FVH (80°-90°)	68.4	0.6			G1/100
BL (0°-30°)	605.0	5.3	B2/1000		
BM (30°-60°)	1187.5	10.3	B2/2500		
BH (60°-80°)	682.8	5.9	B2/1000		G2/1000
BVH (80°-90°)	54.4	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1406.2	1404.5	1403.7	1408.6	1407.0	1406.2	1406.2	1405.4	1403.7	1397.1	1388.0
5°	1444.9	1441.6	1438.3	1442.4	1439.1	1435.8	1435.0	1433.4	1427.6	1417.7	1403.7
7.5°	1485.3	1482.0	1482.8	1485.3	1482.8	1481.2	1478.7	1477.1	1468.0	1452.3	1433.4
10°	1542.2	1542.2	1543.8	1546.3	1547.1	1544.7	1539.7	1537.2	1526.5	1506.7	1480.4
12.5°	1624.6	1623.0	1623.0	1621.3	1623.8	1621.3	1616.4	1612.2	1599.1	1573.5	1535.6
15°	1733.4	1726.8	1721.0	1710.3	1707.0	1698.0	1699.6	1697.1	1684.8	1650.2	1602.3
17.5°	1849.6	1848.8	1839.7	1818.3	1796.9	1782.0	1785.3	1784.5	1777.9	1730.9	1669.9
20°	1951.8	1956.0	1947.7	1931.2	1902.4	1874.4	1872.7	1876.8	1868.6	1821.6	1736.7
22.5°	2066.4	2063.1	2054.9	2033.4	2012.0	1982.3	1972.4	1969.1	1965.8	1912.3	1805.1
25°	2175.2	2185.1	2174.4	2154.6	2121.6	2089.5	2081.2	2084.5	2075.5	2004.6	1878.5
27.5°	2312.9	2317.0	2310.4	2283.2	2255.2	2209.8	2194.2	2194.2	2190.9	2091.1	1936.2
30°	2459.6	2471.1	2459.6	2437.3	2408.5	2343.4	2309.6	2306.3	2296.4	2180.2	2003.8
32.5°	2607.1	2615.4	2607.1	2585.7	2552.7	2495.8	2447.2	2439.8	2426.6	2277.4	2073.0
35°	2738.2	2745.6	2743.9	2748.9	2721.7	2650.0	2620.3	2617.0	2582.4	2404.3	2167.0
37.5°	2881.6	2890.7	2878.3	2888.2	2877.5	2809.9	2800.8	2784.3	2734.9	2523.9	2265.9
40°	3044.8	3053.0	3033.3	3037.4	3025.0	2987.1	2940.9	2918.7	2845.3	2653.3	2421.7
42.5°	3219.5	3238.5	3247.6	3240.1	3211.3	3189.9	3109.1	3081.1	3020.1	2886.5	2678.0
45°	3472.6	3500.6	3513.8	3494.8	3482.5	3452.0	3353.1	3319.3	3287.1	3215.4	3035.7
47.5°	3745.4	3771.0	3813.0	3821.2	3831.1	3808.1	3668.8	3635.8	3641.6	3633.3	3475.9
50°	3963.0	3984.4	4079.2	4180.6	4264.7	4271.3	4093.2	4057.8	4089.1	4115.5	4005.9
52.5°	4121.3	4140.2	4265.5	4474.9	4665.3	4806.2	4614.2	4573.8	4599.3	4658.7	4608.4
55°	4249.9	4276.2	4407.3	4728.7	5113.7	5336.2	5213.4	5162.3	5151.6	5224.9	5253.8
57.5°	4317.4	4325.7	4509.5	4927.4	5442.5	5856.3	5909.9	5852.2	5750.0	5790.4	5940.4
60°	4163.3	4177.3	4428.7	4978.5	5702.2	6372.3	6641.0	6593.2	6375.6	6397.9	6563.5
62.5°	3737.2	3756.9	4059.4	4735.3	5723.6	6716.8	7316.1	7285.6	6993.8	6873.5	6922.9
65°	2997.8	3004.4	3317.6	4133.6	5297.5	6759.7	7786.7	7779.3	7425.7	7143.8	6932.0
67.5°	1709.5	1698.0	2116.7	2948.4	4371.8	6202.5	7817.2	7860.9	7565.8	7099.3	6355.0
70°	741.0	742.7	935.5	1454.8	2829.7	5013.1	7260.9	7335.9	7160.3	6358.3	5056.0
72.5°	342.9	347.8	431.1	629.7	1208.4	3109.9	5920.6	5988.2	5837.4	5088.9	3678.6
75°	242.3	246.5	287.7	361.0	555.5	1211.7	3960.5	4102.3	4175.7	3806.4	2424.1
77.5°	183.8	189.6	210.2	250.6	342.9	429.4	1895.0	2232.9	2659.9	2368.1	1248.7
80°	117.0	117.0	139.3	167.3	209.4	223.4	547.3	648.7	1301.5	975.9	490.4
82.5°	79.1	81.6	94.8	106.3	120.3	126.9	234.9	250.6	375.9	332.2	201.9
85°	42.0	43.7	49.5	48.6	57.7	50.3	98.9	98.1	137.7	150.8	76.7
87.5°	0.0	0.0	0.8	0.8	1.6	2.5	10.7	11.5	28.8	46.2	25.6
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°	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1393.0	1383.1	1388.0	1386.4	1391.3	1391.3	1382.3	1379.8	1380.6	1370.7	1367.4
5°	1405.4	1393.8	1396.3	1393.0	1397.9	1402.1	1397.9	1397.9	1402.9	1395.5	1391.3
7.5°	1433.4	1420.2	1420.2	1416.1	1421.8	1425.1	1421.8	1426.8	1435.8	1428.4	1424.3
10°	1477.9	1462.2	1463.1	1458.1	1460.6	1458.9	1445.7	1441.6	1444.1	1437.5	1434.2
12.5°	1535.6	1514.2	1514.2	1504.3	1498.5	1481.2	1454.0	1444.1	1445.7	1440.0	1437.5
15°	1590.8	1571.0	1566.9	1547.1	1520.7	1488.6	1463.9	1457.3	1458.9	1453.2	1449.0
17.5°	1655.9	1630.4	1615.5	1579.3	1530.6	1497.7	1472.9	1457.3	1444.1	1430.9	1427.6
20°	1716.1	1684.0	1656.7	1600.7	1541.4	1496.0	1449.9	1411.1	1379.0	1361.7	1357.5
22.5°	1777.9	1736.7	1688.9	1615.5	1540.5	1466.3	1381.4	1322.9	1275.1	1249.6	1254.5
25°	1836.4	1784.5	1719.4	1629.5	1514.2	1400.4	1285.0	1197.6	1143.2	1123.5	1117.7
27.5°	1885.1	1820.8	1747.4	1623.0	1459.8	1305.6	1153.1	1055.9	1003.1	980.9	975.1
30°	1939.5	1866.9	1787.8	1592.5	1374.0	1172.9	1003.9	924.8	886.9	865.5	866.3
32.5°	2002.1	1926.3	1844.7	1533.9	1264.4	1029.5	881.1	826.7	796.2	774.8	771.5
35°	2086.2	2011.2	1882.6	1445.7	1125.1	897.6	797.1	752.5	714.6	686.6	680.8
37.5°	2190.0	2138.9	1886.7	1327.9	975.9	806.9	736.9	689.1	642.9	605.8	601.7
40°	2368.1	2309.6	1852.9	1180.3	849.0	748.4	686.6	631.4	577.8	536.6	530.8
42.5°	2622.0	2501.6	1780.4	1013.8	753.4	702.3	638.8	568.7	514.3	485.5	481.4
45°	2945.1	2715.9	1671.6	857.2	682.5	656.9	588.5	515.2	486.3	465.7	461.6
47.5°	3340.7	2965.7	1546.3	735.2	627.3	615.7	537.4	497.0	471.5	454.2	450.0
50°	3813.8	3283.8	1443.3	639.6	577.8	567.9	520.9	486.3	465.7	451.7	448.4
52.5°	4353.7	3637.4	1393.0	571.2	534.9	525.0	515.2	483.8	466.5	455.8	451.7
55°	4914.2	4010.0	1346.0	518.5	498.7	504.4	516.0	492.1	478.9	464.9	460.8
57.5°	5455.7	4359.5	1230.6	477.2	472.3	494.6	520.1	500.3	484.7	470.6	465.7
60°	5829.1	4550.7	1035.3	444.3	452.5	482.2	509.4	488.0	468.2	462.4	459.9
62.5°	5929.7	4527.6	803.6	410.5	428.6	455.0	481.4	467.4	446.7	455.8	456.6
65°	5694.8	4280.3	603.4	377.5	397.3	419.5	452.5	446.7	439.3	464.1	464.9
67.5°	5029.6	3672.9	459.9	348.7	365.1	392.3	443.4	467.4	469.0	500.3	497.0
70°	3805.6	2743.9	360.2	321.5	340.4	392.3	472.3	483.0	463.2	492.1	485.5
72.5°	2631.0	1810.9	306.6	297.6	309.9	374.2	471.5	471.5	450.0	450.0	437.7
75°	1634.5	1064.9	267.1	267.1	267.1	327.2	458.3	434.4	396.5	379.2	369.3
77.5°	806.9	517.6	224.2	232.4	223.4	273.7	374.2	355.3	332.2	314.0	307.4
80°	344.5	258.8	181.3	190.4	179.7	206.1	296.7	292.6	270.4	246.5	239.0
82.5°	158.3	133.5	145.1	149.2	131.1	155.0	216.8	216.8	204.4	171.4	159.1
85°	67.6	70.9	100.6	100.6	82.4	87.4	116.2	110.4	98.9	80.8	74.2
87.5°	23.1	34.6	51.1	44.5	17.3	7.4	4.1	1.6	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)