

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531829

Luminaire Tested: **GALN-SA7A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15486 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

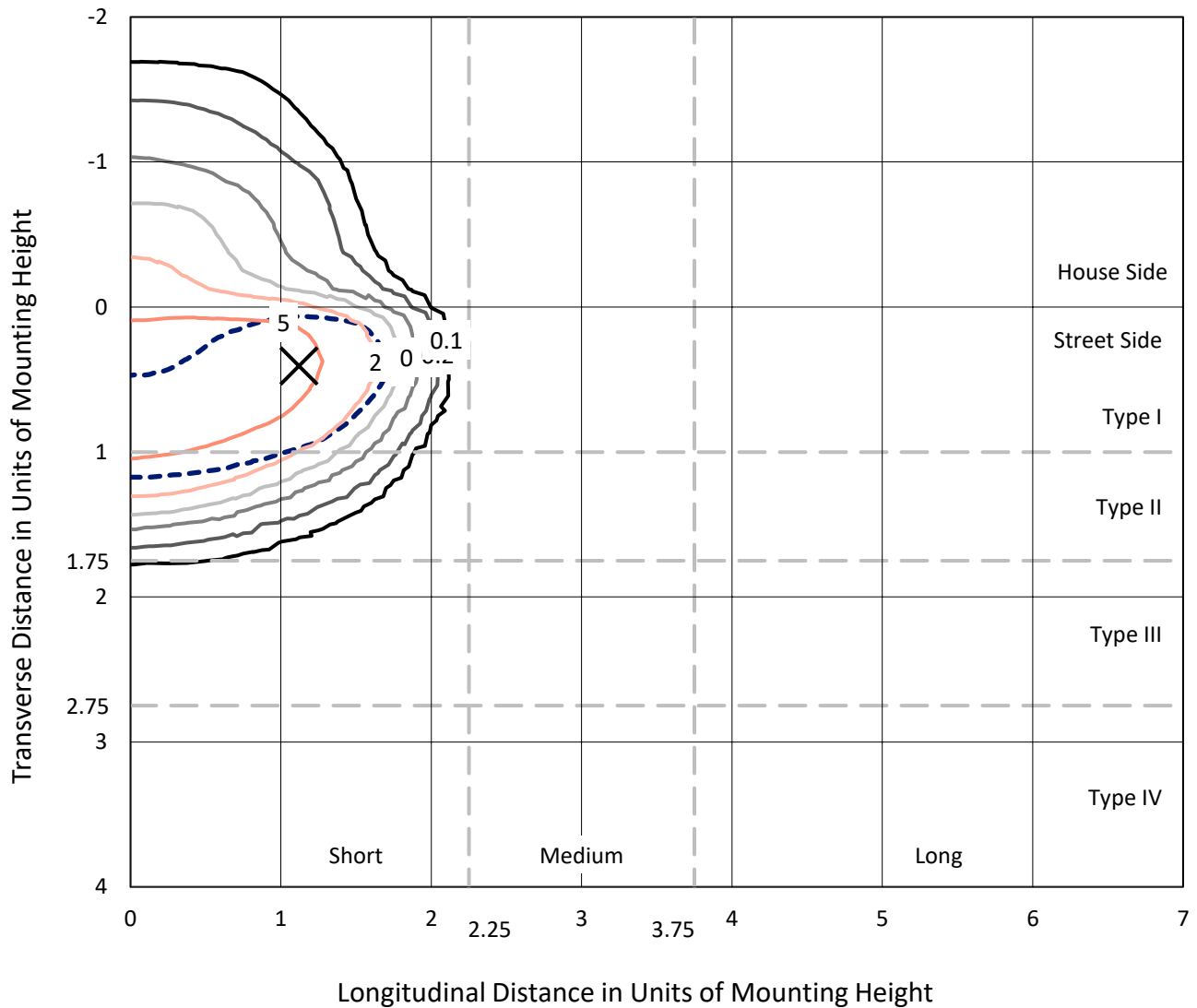
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

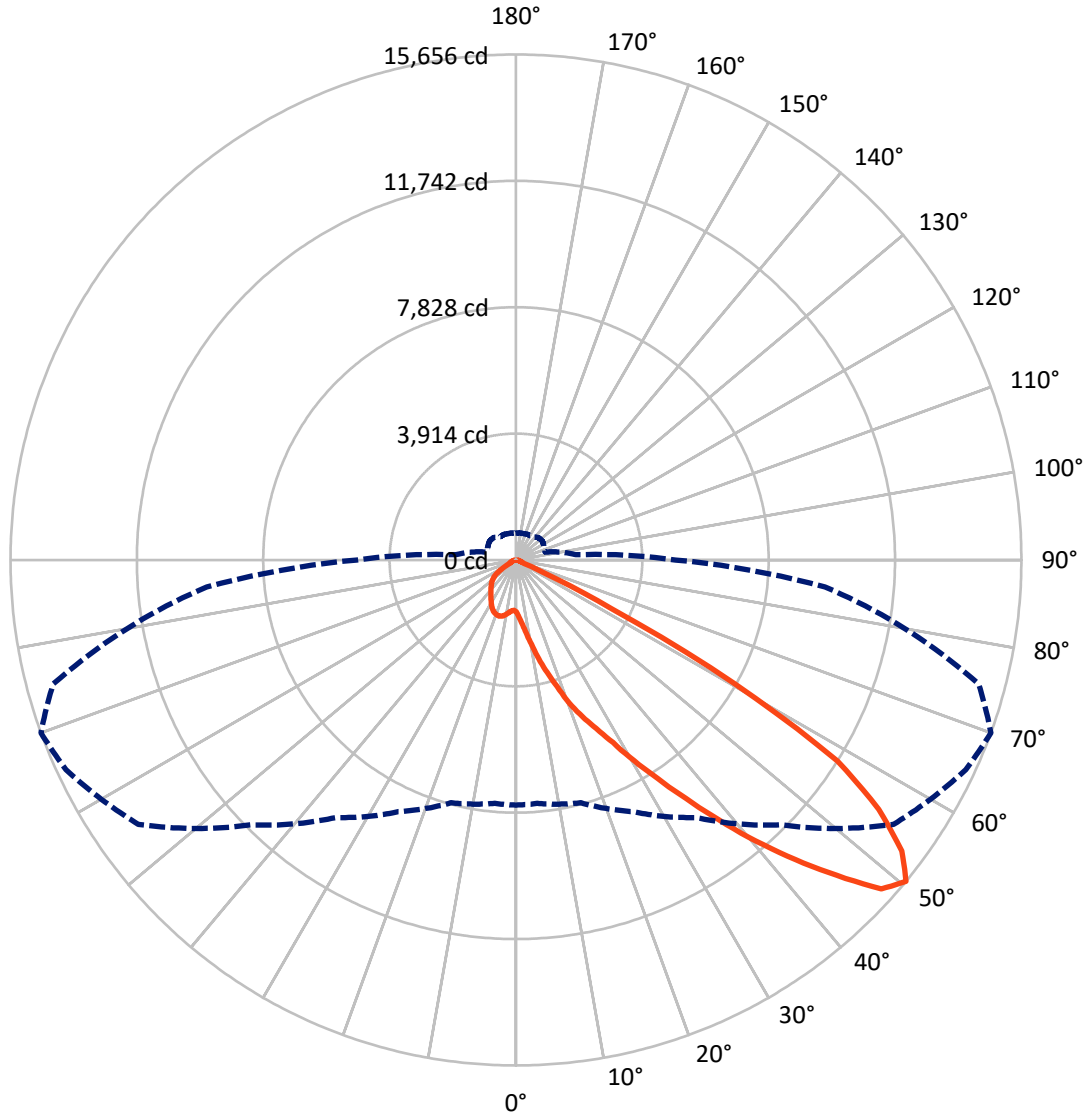
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2162.7	0.0	2162.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	13323.3	0.0	13323.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	15486.0	0.0	15486.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.6	1.3
10°-20°	902.3	5.8
20°-30°	1892.8	12.2
30°-40°	3262.5	21.1
40°-50°	4768.2	30.8
50°-60°	3713.6	24.0
60°-70°	629.2	4.1
70°-80°	86.4	0.6
80°-90°	22.4	0.1
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°	15486.0	100.0
0°-180°	15486.0	100.0

Coefficient of Utilization



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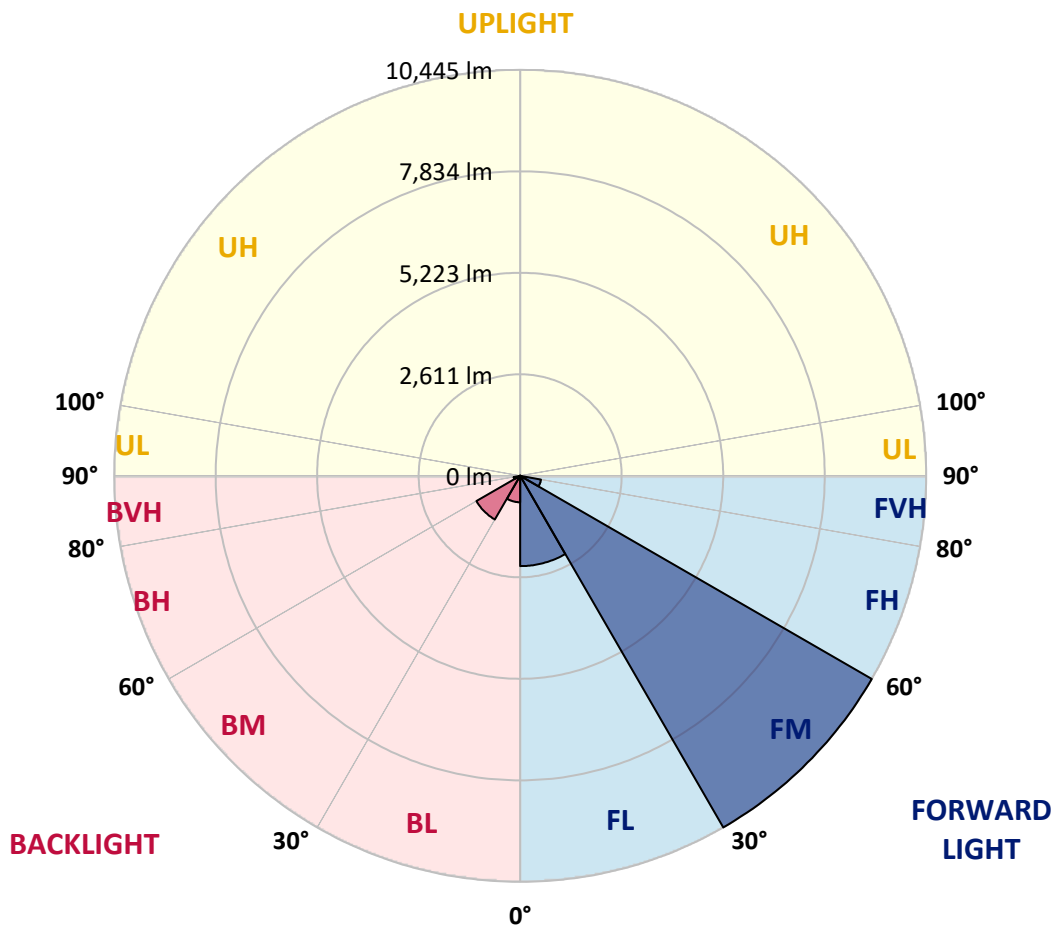
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.1	15.0			
FM (30°-60°)	10445.0	67.4			
FH (60°-80°)	544.8	3.5			G0/660
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	680.6	4.4	B2/1000		
BM (30°-60°)	1299.3	8.4	B2/2500		
BH (60°-80°)	170.8	1.1	B1/500		G1/500
BVH (80°-90°)	12.0	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0
2.5°	2100.5	2085.3	2052.2	1991.1	1965.6	1904.5	1868.8	1800.1	1756.8	1708.4	1655.0
5°	2958.6	2879.6	2831.3	2762.5	2561.4	2436.6	2230.4	2054.7	1973.2	1884.1	1761.9
7.5°	3844.6	3793.7	3727.5	3579.8	3442.3	3182.6	2828.7	2441.7	2276.2	2123.4	1881.6
10°	4577.9	4435.3	4427.7	4318.2	4168.0	3857.3	3432.1	2950.9	2655.6	2431.5	2052.2
12.5°	5089.7	4959.8	5018.4	5005.6	4865.6	4580.4	4089.0	3452.5	3144.4	2795.6	2227.8
15°	5555.6	5502.1	5484.3	5469.0	5413.0	5201.7	4761.2	4063.6	3618.0	3197.9	2426.4
17.5°	6011.3	5873.9	5940.1	5952.8	5947.7	5756.7	5344.3	4644.1	4119.6	3623.1	2635.2
20°	6416.2	6428.9	6339.8	6322.0	6306.7	6299.1	5896.8	5219.5	4735.8	4068.7	2907.6
22.5°	6935.6	6846.5	6925.4	6874.5	6775.2	6714.1	6406.0	5728.7	5270.4	4605.9	3185.2
25°	7549.2	7620.5	7434.6	7414.3	7304.8	7093.4	6815.9	6299.1	5784.7	5104.9	3485.6
27.5°	8305.4	8180.6	8132.3	8020.2	7821.6	7732.5	7406.6	6887.2	6406.0	5629.4	3775.9
30°	8954.6	8921.5	8679.7	8547.3	8374.1	8371.6	7915.8	7684.1	7215.7	6451.8	4175.6
32.5°	9484.2	9339.1	9250.0	9158.3	9018.3	9056.5	8672.0	8549.8	8078.8	7215.7	4646.6
35°	9838.1	9733.8	9680.3	9540.2	9499.5	9670.1	9509.7	9458.8	9071.8	8290.1	5199.1
37.5°	9950.2	9983.3	9973.1	9797.4	9884.0	10344.8	10551.0	10418.7	10215.0	9423.1	5797.5
40°	10049.5	10072.4	10021.5	10227.7	10474.7	10999.2	11745.2	11526.2	11449.8	10571.4	6630.1
42.5°	10105.5	10087.7	10087.7	10444.1	10818.4	11872.5	12898.6	12753.4	12694.9	11793.5	7592.5
45°	9863.6	9690.5	9876.3	10360.1	11113.7	12302.8	13820.2	14021.4	13937.4	13247.4	8717.9
47.5°	8959.7	9066.7	9171.1	9817.8	10754.7	12170.4	14385.5	15070.4	15225.7	14469.5	9456.2
50°	7592.5	7569.6	7786.0	8600.7	9738.8	11600.0	14276.0	15373.4	15656.0	14836.1	9611.5
52.5°	5522.5	5690.5	5924.8	6734.4	8083.9	10123.3	12862.9	14591.7	14968.5	14385.5	9509.7
55°	3215.7	3029.9	3556.9	4241.8	5514.9	7635.8	10874.4	12934.2	13631.8	13565.6	8995.4
57.5°	1288.3	1247.6	1428.4	1924.9	2877.1	4733.2	7908.2	10627.4	11745.2	12425.0	7905.6
60°	565.2	552.5	649.3	784.2	1176.3	2182.0	4325.8	6609.7	7775.8	8682.2	5441.0
62.5°	407.4	402.3	450.7	499.0	621.2	949.7	1817.9	2663.2	3320.1	4010.1	2436.6
65°	328.4	341.2	374.3	399.7	458.3	527.0	641.6	740.9	909.0	942.1	537.2
67.5°	267.3	277.5	308.1	336.1	346.3	285.2	295.3	259.7	259.7	231.7	185.9
70°	196.0	198.6	234.2	267.3	213.9	114.6	201.1	201.1	180.8	173.1	157.9
72.5°	145.1	147.7	175.7	165.5	84.0	71.3	147.7	163.0	147.7	140.0	127.3
75°	106.9	109.5	91.7	38.2	35.6	45.8	86.6	112.0	106.9	104.4	96.8
77.5°	20.4	15.3	12.7	17.8	25.5	38.2	56.0	68.7	71.3	76.4	71.3
80°	2.5	2.5	7.6	15.3	28.0	40.7	58.6	66.2	68.7	71.3	66.2
82.5°	0.0	2.5	7.6	15.3	28.0	38.2	50.9	58.6	63.7	66.2	63.7
85°	0.0	2.5	5.1	12.7	22.9	28.0	25.5	17.8	15.3	17.8	12.7
87.5°	0.0	0.0	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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°	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0	1604.0
2.5°	1624.4	1614.2	1578.6	1540.4	1507.3	1522.6	1507.3	1494.6	1499.7	1494.6	1489.5
5°	1713.5	1667.7	1591.3	1558.2	1530.2	1527.7	1520.0	1517.5	1520.0	1520.0	1497.1
7.5°	1797.5	1723.7	1642.2	1606.6	1573.5	1576.0	1558.2	1558.2	1555.7	1542.9	1537.8
10°	1924.9	1825.6	1721.2	1657.5	1616.8	1609.1	1591.3	1573.5	1573.5	1573.5	1548.0
12.5°	2064.9	1940.1	1797.5	1723.7	1675.3	1637.1	1609.1	1604.0	1576.0	1570.9	1558.2
15°	2187.1	2029.2	1848.5	1746.6	1685.5	1634.6	1591.3	1563.3	1550.6	1542.9	1532.8
17.5°	2306.8	2105.6	1876.5	1746.6	1680.4	1621.9	1576.0	1550.6	1520.0	1525.1	1504.7
20°	2467.2	2187.1	1884.1	1713.5	1632.1	1576.0	1514.9	1502.2	1484.4	1469.1	1474.2
22.5°	2622.5	2245.7	1861.2	1672.8	1555.7	1489.5	1458.9	1443.6	1436.0	1423.3	1405.4
25°	2762.5	2309.3	1825.6	1599.0	1474.2	1425.8	1397.8	1395.3	1377.4	1377.4	1344.3
27.5°	2905.1	2332.2	1764.4	1512.4	1402.9	1374.9	1362.2	1357.1	1349.4	1331.6	1308.7
30°	3068.1	2339.9	1675.3	1423.3	1339.2	1308.7	1326.5	1339.2	1306.2	1273.1	1283.2
32.5°	3203.0	2322.0	1568.4	1339.2	1293.4	1278.1	1313.8	1326.5	1288.3	1252.7	1234.9
35°	3365.9	2278.8	1464.0	1273.1	1247.6	1278.1	1308.7	1308.7	1232.3	1189.0	1178.8
37.5°	3612.9	2230.4	1367.3	1217.0	1199.2	1262.9	1303.6	1275.6	1155.9	1102.5	1089.7
40°	3877.7	2199.8	1273.1	1161.0	1173.8	1237.4	1260.3	1173.8	1051.5	1018.4	1008.3
42.5°	4262.2	2138.7	1189.0	1112.6	1150.8	1201.8	1201.8	1046.4	1000.6	982.8	980.2
45°	4740.8	2095.4	1115.2	1071.9	1117.7	1130.5	1089.7	980.2	947.2	942.1	944.6
47.5°	4975.1	2011.4	1038.8	1023.5	1056.6	1059.2	952.2	926.8	898.8	891.1	886.0
50°	4939.4	1861.2	939.5	959.9	1005.7	980.2	868.2	873.3	847.9	845.3	832.6
52.5°	4689.9	1624.4	840.2	888.6	939.5	865.7	799.5	794.4	794.4	761.3	748.6
55°	4157.8	1308.7	720.5	781.7	842.8	728.2	710.4	705.3	692.5	662.0	654.3
57.5°	3292.1	959.9	542.3	608.5	715.5	618.7	616.2	593.2	560.1	537.2	537.2
60°	1958.0	552.5	341.2	371.7	473.6	501.6	557.6	547.4	491.4	455.8	445.6
62.5°	893.7	285.2	216.4	221.5	254.6	325.9	437.9	506.7	427.7	366.6	361.5
65°	300.4	211.3	178.2	170.6	175.7	196.0	262.2	359.0	341.2	282.6	272.4
67.5°	183.3	188.4	168.0	155.3	155.3	152.8	150.2	163.0	201.1	196.0	198.6
70°	157.9	173.1	155.3	140.0	134.9	127.3	106.9	89.1	76.4	89.1	94.2
72.5°	127.3	137.5	132.4	119.7	106.9	96.8	76.4	58.6	43.3	38.2	38.2
75°	94.2	101.8	106.9	91.7	81.5	68.7	56.0	38.2	22.9	15.3	15.3
77.5°	68.7	76.4	78.9	71.3	61.1	48.4	35.6	25.5	12.7	5.1	5.1
80°	58.6	68.7	76.4	71.3	63.7	45.8	33.1	17.8	10.2	2.5	2.5
82.5°	56.0	68.7	76.4	68.7	61.1	43.3	33.1	20.4	7.6	2.5	2.5
85°	12.7	17.8	22.9	28.0	33.1	33.1	25.5	15.3	7.6	2.5	2.5
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	2.5	2.5	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)