

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: P528009

Luminaire Tested: **GALN-SA3A-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8152 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

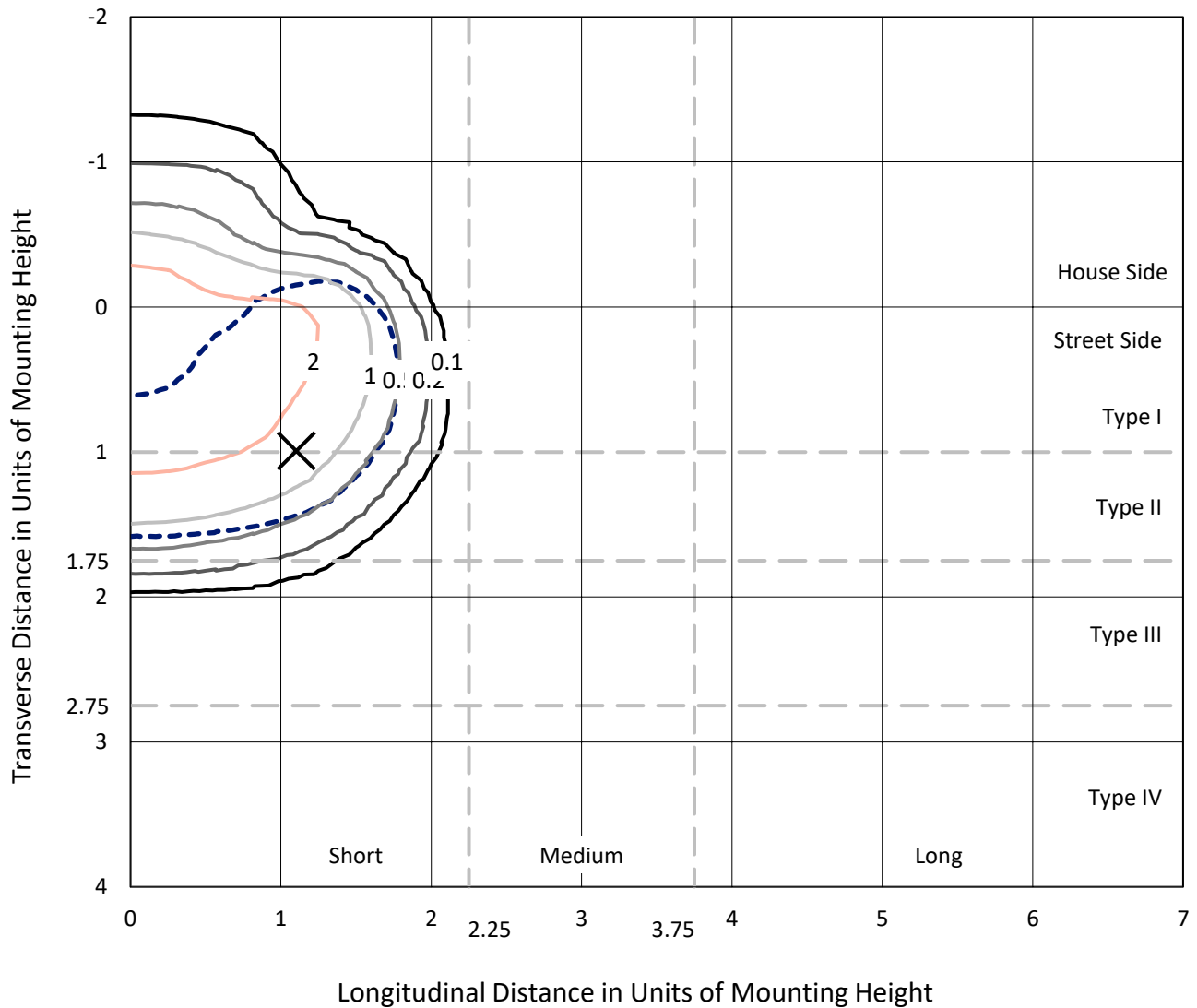
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

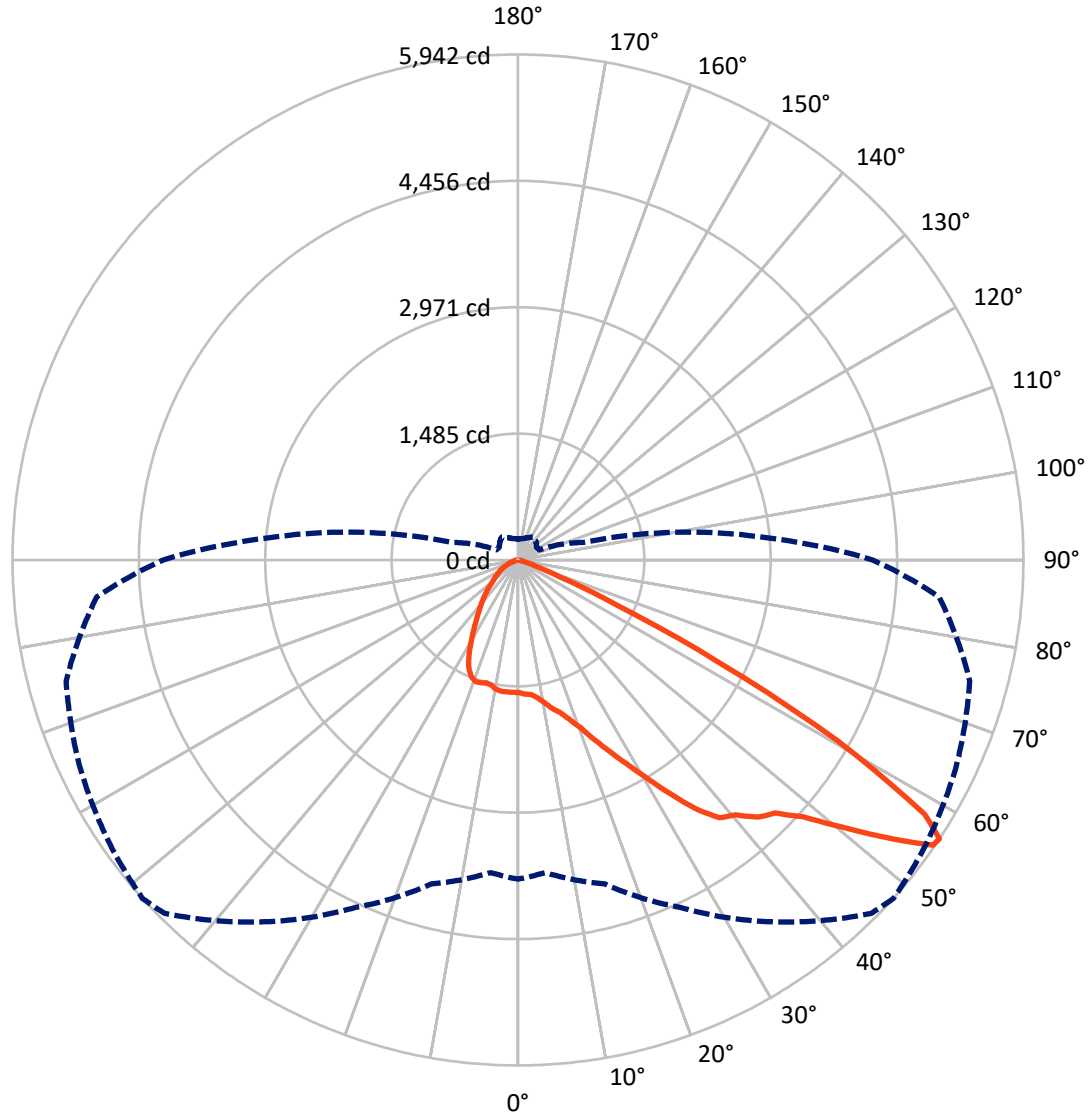
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1772.9	0.0	1772.9
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	6379.1	0.0	6379.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	8152.0	0.0	8152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.9
10°-20°	484.7	5.9
20°-30°	879.2	10.8
30°-40°	1381.0	16.9
40°-50°	2014.7	24.7
50°-60°	2427.3	29.8
60°-70°	710.7	8.7
70°-80°	90.2	1.1
80°-90°	12.6	0.2
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°	8152.0	100.0
0°-180°	8152.0	100.0

Coefficient of Utilization



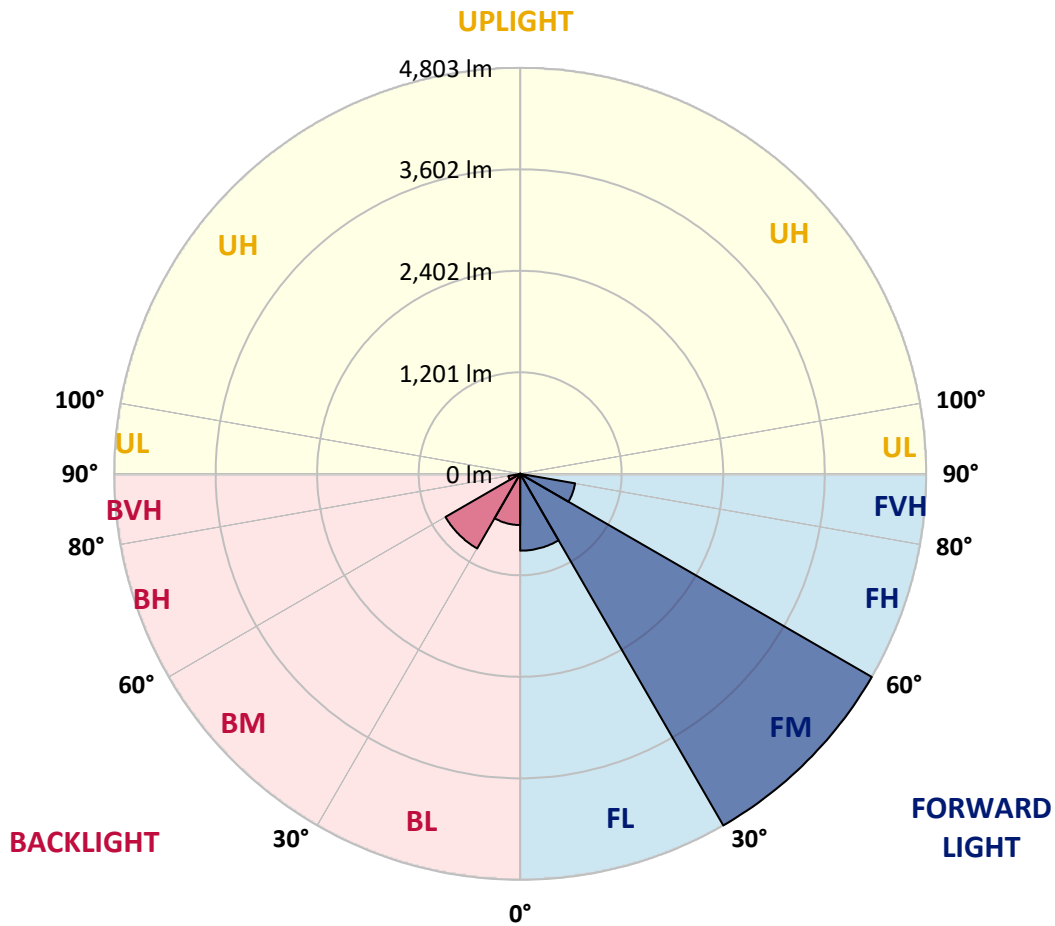
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.6	11.2			
FM (30°-60°)	4803.2	58.9			
FH (60°-80°)	660.0	8.1			G0/660
FVH (80°-90°)	6.4	0.1			G0/10
BL (0°-30°)	606.0	7.4	B2/1000		
BM (30°-60°)	1019.8	12.5	B2/2500		
BH (60°-80°)	140.9	1.7	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1585.2	1577.8	1577.8	1565.9	1579.3	1573.4	1577.8	1563.0	1577.8	1555.6	1573.4
5°	1592.7	1594.1	1588.2	1595.6	1595.6	1604.5	1589.7	1603.0	1610.5	1594.1	1586.7
7.5°	1631.3	1634.2	1632.7	1626.8	1638.7	1637.2	1635.7	1625.3	1628.3	1622.3	1613.4
10°	1707.0	1705.5	1712.9	1698.0	1689.1	1699.5	1702.5	1686.2	1674.3	1669.8	1641.6
12.5°	1816.8	1799.0	1788.6	1773.7	1778.2	1763.4	1790.1	1761.9	1755.9	1729.2	1701.0
15°	1905.8	1902.9	1904.4	1880.6	1853.9	1859.8	1859.8	1845.0	1836.1	1803.4	1763.4
17.5°	2088.4	2026.1	2039.4	2009.7	1987.5	1986.0	1972.6	1975.6	1951.9	1883.6	1822.7
20°	2230.9	2204.2	2183.4	2132.9	2098.8	2109.2	2103.3	2088.4	2081.0	1991.9	1905.8
22.5°	2358.6	2367.5	2333.3	2320.0	2272.5	2276.9	2288.8	2275.4	2219.0	2127.0	1999.4
25°	2538.2	2527.8	2481.8	2465.4	2420.9	2437.2	2483.2	2472.9	2437.2	2271.0	2072.1
27.5°	2750.4	2714.8	2723.7	2649.5	2606.4	2652.5	2707.4	2759.3	2658.4	2440.2	2158.2
30°	2900.3	2863.2	2860.3	2857.3	2846.9	2900.3	2964.2	3011.7	2930.0	2609.4	2300.7
32.5°	2974.5	2983.5	3008.7	2999.8	3090.3	3200.2	3267.0	3335.2	3232.8	2885.5	2489.2
35°	3172.0	3115.6	3172.0	3177.9	3271.4	3504.4	3589.0	3752.3	3727.1	3275.9	2719.2
37.5°	3287.7	3283.3	3290.7	3347.1	3437.6	3725.6	3845.8	3972.0	3924.5	3510.4	3005.7
40°	3479.2	3491.1	3489.6	3532.6	3632.1	3891.8	3940.8	4043.2	4047.7	3835.4	3427.3
42.5°	3786.5	3739.0	3707.8	3752.3	3891.8	4035.8	4133.8	4113.0	4260.0	4230.3	3969.0
45°	4062.5	4090.7	4044.7	4118.9	4169.4	4246.6	4243.6	4288.2	4475.2	4616.2	4377.2
47.5°	4320.8	4338.6	4360.9	4411.4	4521.2	4533.1	4507.8	4488.5	4746.8	4892.3	4693.4
50°	4475.2	4491.5	4595.4	4685.9	4890.8	4917.5	4932.3	4883.4	5058.5	5074.8	4991.7
52.5°	4433.6	4451.4	4596.9	4895.2	5221.8	5466.7	5422.2	5339.0	5328.7	5392.5	5267.8
55°	4065.5	4049.2	4249.6	4714.2	5325.7	5913.5	5919.4	5831.8	5664.1	5621.1	5226.2
56°	3752.3	3688.5	3943.8	4504.9	5192.1	5874.9	5941.7	5848.2	5690.8	5497.9	4969.5
57.5°	3074.0	3134.9	3388.7	3853.3	4730.5	5597.3	5635.9	5613.6	5494.9	5171.3	4372.8
60°	1695.1	1801.9	2026.1	2594.6	3367.9	4295.6	4326.7	4507.8	4530.1	3960.1	3008.7
62.5°	719.9	708.0	941.0	1359.6	1917.7	2593.1	2651.0	2836.5	2870.6	2282.9	1509.5
65°	292.4	308.7	426.0	684.3	1013.8	1181.5	1263.1	1324.0	1436.8	942.5	556.6
67.5°	193.0	191.5	250.8	390.4	546.2	526.9	526.9	556.6	515.1	384.4	240.5
70°	138.0	142.5	179.6	270.1	339.9	252.3	241.9	231.6	262.7	253.8	194.4
72.5°	90.5	96.5	120.2	161.8	176.6	138.0	138.0	166.2	216.7	204.8	158.8
75°	59.4	60.9	74.2	93.5	87.6	71.2	78.7	111.3	157.3	151.4	112.8
77.5°	40.1	41.6	50.5	60.9	49.0	40.1	43.0	56.4	77.2	77.2	59.4
80°	14.8	16.3	20.8	19.3	22.3	28.2	31.2	38.6	46.0	46.0	40.1
82.5°	0.0	1.5	4.5	10.4	16.3	22.3	25.2	29.7	34.1	38.6	37.1
85°	0.0	1.5	4.5	7.4	11.9	13.4	14.8	10.4	8.9	8.9	7.4
87.5°	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0	1.5	1.5
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°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1557.0	1555.6	1555.6	1551.1	1560.0	1555.6	1558.5	1557.0	1537.7	1552.6	1542.2
5°	1573.4	1583.8	1567.4	1564.5	1552.6	1557.0	1557.0	1542.2	1555.6	1554.1	1551.1
7.5°	1614.9	1597.1	1579.3	1561.5	1558.5	1554.1	1537.7	1531.8	1542.2	1530.3	1548.1
10°	1632.7	1635.7	1609.0	1585.2	1563.0	1531.8	1509.5	1496.2	1479.9	1497.7	1508.1
12.5°	1714.4	1684.7	1638.7	1601.6	1525.9	1494.7	1472.4	1466.5	1494.7	1500.6	1490.2
15°	1742.6	1738.1	1678.7	1595.6	1517.0	1479.9	1484.3	1472.4	1475.4	1460.6	1463.5
17.5°	1800.5	1750.0	1680.2	1576.3	1515.5	1506.6	1479.9	1432.4	1405.6	1393.8	1404.2
20°	1864.3	1815.3	1714.4	1583.8	1528.8	1505.1	1417.5	1359.6	1304.7	1275.0	1276.5
22.5°	1920.7	1859.8	1699.5	1586.7	1540.7	1442.7	1337.4	1223.1	1154.8	1108.8	1110.3
25°	1989.0	1902.9	1705.5	1592.7	1509.5	1343.3	1191.9	1080.6	998.9	967.8	978.2
27.5°	2027.6	1929.6	1738.1	1606.0	1427.9	1202.3	1039.0	935.1	887.6	872.8	871.3
30°	2143.3	1989.0	1778.2	1579.3	1291.3	1050.9	899.5	835.7	789.7	776.3	779.3
32.5°	2315.5	2097.3	1830.1	1509.5	1151.8	915.8	808.9	761.4	718.4	693.2	690.2
35°	2459.5	2282.9	1885.1	1401.2	990.0	811.9	745.1	685.7	620.4	592.2	584.8
37.5°	2734.1	2492.1	1873.2	1237.9	835.7	734.7	676.8	604.1	547.7	509.1	504.7
40°	3099.2	2737.1	1815.3	1039.0	721.4	666.5	604.1	534.3	464.6	431.9	429.0
42.5°	3543.0	3036.9	1709.9	837.1	607.1	598.2	541.8	461.6	399.3	375.5	377.0
45°	3903.7	3293.7	1603.0	672.4	522.5	531.4	482.4	406.7	363.7	344.4	344.4
47.5°	4224.3	3467.3	1487.3	555.1	443.8	464.6	421.5	377.0	339.9	325.1	322.1
50°	4533.1	3644.0	1371.5	449.7	378.5	399.3	394.8	359.2	329.5	311.7	313.2
52.5°	4726.0	3672.2	1224.6	368.1	331.0	354.7	369.6	336.9	304.3	293.9	290.9
55°	4490.0	3308.5	950.0	302.8	280.5	311.7	339.9	302.8	277.6	259.8	258.3
56°	4172.4	2958.2	794.1	279.0	265.7	299.8	329.5	289.4	261.2	250.8	243.4
57.5°	3532.6	2420.9	586.3	247.9	246.4	279.0	313.2	276.1	243.4	234.5	234.5
60°	2202.7	1362.6	354.7	207.8	213.7	247.9	282.0	246.4	216.7	216.7	221.2
62.5°	1003.4	567.0	215.2	176.6	184.1	213.7	250.8	222.6	206.3	222.6	225.6
65°	341.4	244.9	155.9	141.0	145.5	176.6	215.2	225.6	224.1	234.5	240.5
67.5°	191.5	157.3	130.6	117.3	114.3	130.6	176.6	225.6	216.7	212.3	215.2
70°	161.8	133.6	115.8	103.9	99.4	105.4	136.6	170.7	152.9	148.4	145.5
72.5°	130.6	111.3	100.9	93.5	80.2	68.3	62.3	65.3	72.7	77.2	84.6
75°	92.0	84.6	84.6	75.7	57.9	43.0	34.1	28.2	19.3	13.4	14.8
77.5°	52.0	52.0	53.4	46.0	37.1	28.2	20.8	14.8	7.4	3.0	1.5
80°	35.6	38.6	41.6	37.1	31.2	25.2	17.8	10.4	4.5	0.0	0.0
82.5°	35.6	40.1	43.0	37.1	31.2	23.7	17.8	10.4	4.5	1.5	0.0
85°	7.4	8.9	10.4	11.9	17.8	17.8	13.4	8.9	4.5	1.5	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	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)