

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: P299942

Luminaire Tested: **GLNA-AF-02-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-02-LED-E1-SL3-7030-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7734 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

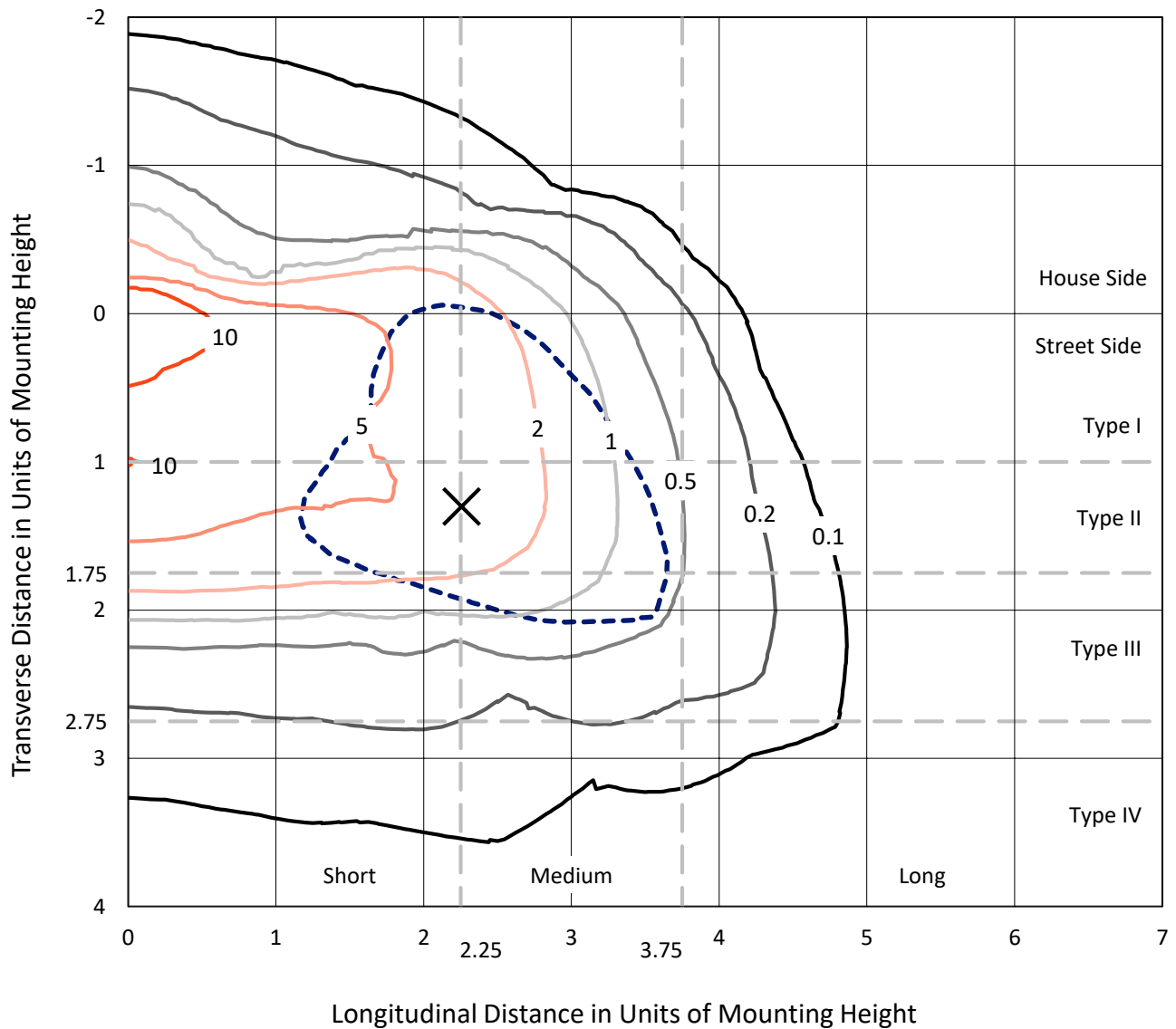
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299942
 CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7030-600

Iso-Footcandle Lines of Horizontal Illumination

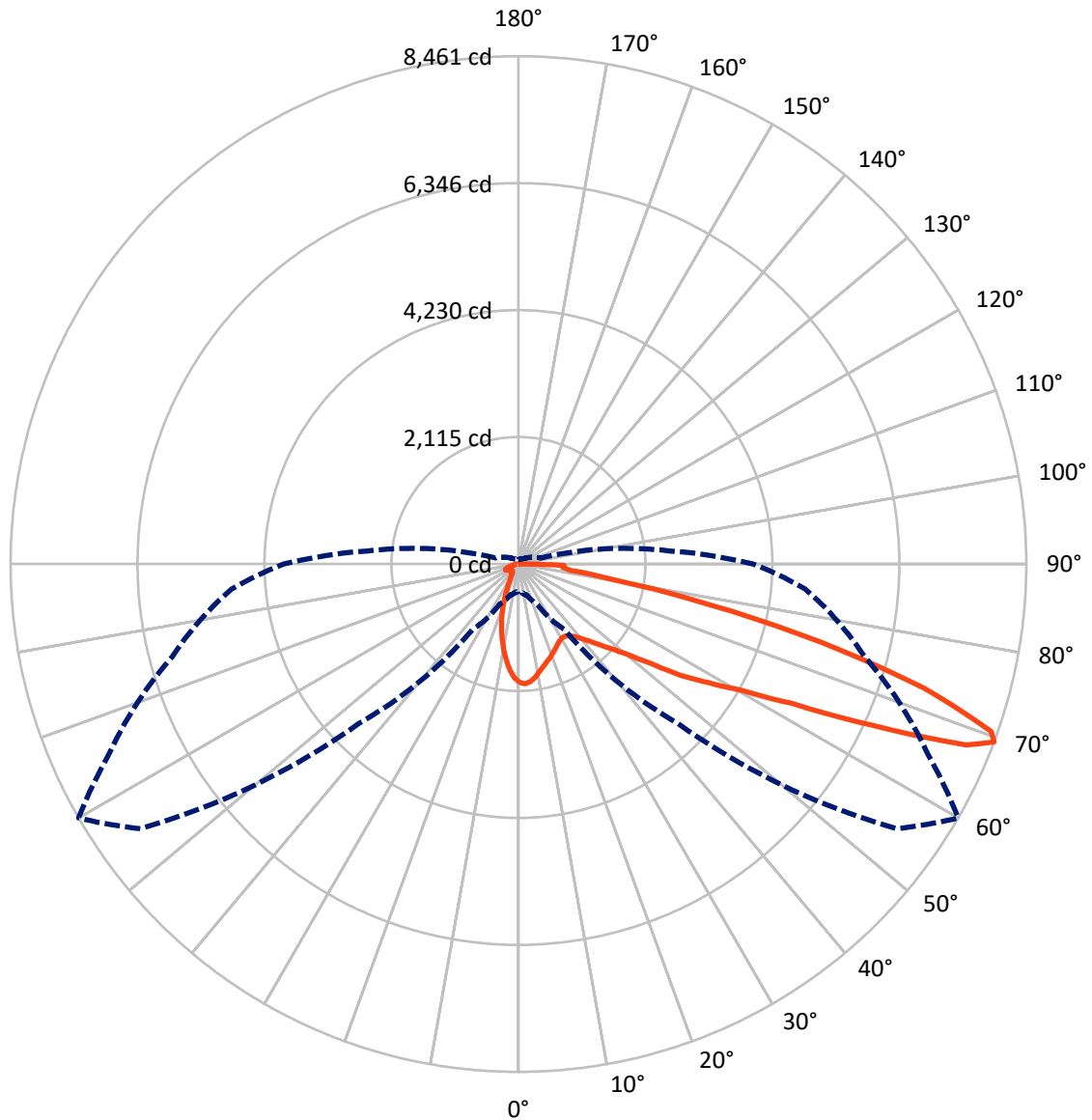
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299942
CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P299942

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.3	0.0	1100.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6633.7	0.0	6633.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	7734.0	0.0	7734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	2.2
10°-20°	355.0	4.6
20°-30°	452.4	5.8
30°-40°	621.9	8.0
40°-50°	1009.1	13.0
50°-60°	1618.3	20.9
60°-70°	2153.8	27.8
70°-80°	1162.9	15.0
80°-90°	194.0	2.5
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°	7734.0	100.0
0°-180°	7734.0	100.0

Coefficient of Utilization



REPORT NUMBER: P299942

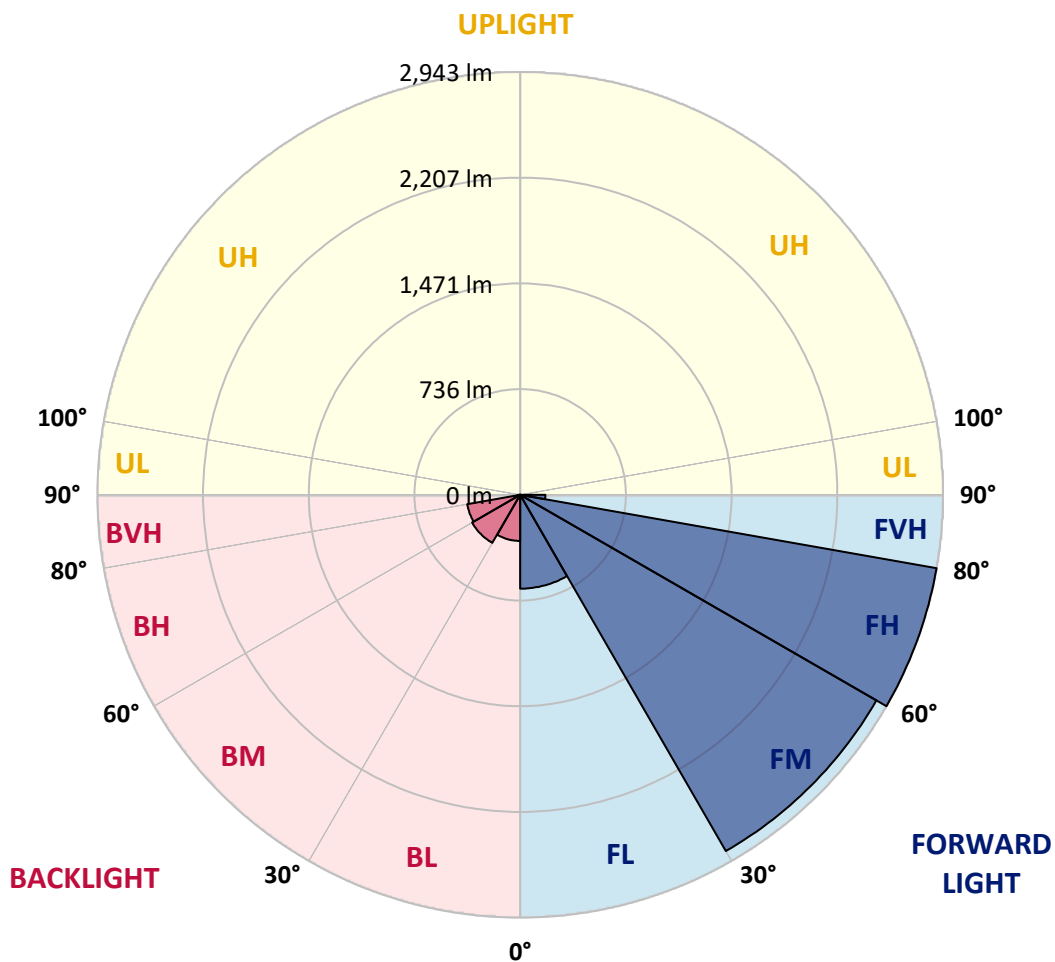
CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.0	8.4			
FM (30°-60°)	2862.7	37.0			
FH (60°-80°)	2942.6	38.0			G2/5000
FVH (80°-90°)	175.4	2.3			G2/225
BL (0°-30°)	321.0	4.2	B1/500		
BM (30°-60°)	386.6	5.0	B1/1000		
BH (60°-80°)	374.1	4.8	B1/500		G1/500
BVH (80°-90°)	18.7	0.2			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





REPORT NUMBER: P299942

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	2011.1	2015.6	2013.7	2012.6	2015.9	2010.7	1999.9	1996.5	1991.3	1978.9	1958.0
5°	1935.6	1949.1	1948.3	1958.4	1975.2	1979.7	1974.8	1975.6	1965.9	1950.6	1915.8
7.5°	1805.2	1810.8	1813.8	1835.9	1866.5	1891.2	1912.1	1918.8	1914.3	1901.2	1856.4
10°	1670.7	1675.2	1682.3	1708.1	1746.9	1780.9	1820.5	1843.3	1853.0	1850.8	1800.7
12.5°	1555.3	1559.8	1569.1	1598.3	1644.6	1686.4	1744.0	1772.3	1795.5	1809.3	1755.5
15°	1451.8	1461.5	1470.5	1504.1	1556.0	1611.0	1676.0	1711.8	1747.7	1778.7	1715.6
17.5°	1371.1	1380.8	1386.0	1416.7	1472.0	1539.2	1615.4	1657.7	1702.5	1753.3	1676.0
20°	1324.4	1328.9	1326.6	1343.8	1393.5	1464.9	1555.3	1604.2	1658.4	1729.4	1636.4
22.5°	1311.3	1311.7	1303.5	1301.6	1333.7	1393.9	1491.0	1550.4	1616.9	1713.7	1602.4
25°	1343.1	1342.0	1319.5	1301.2	1304.6	1339.7	1429.0	1498.1	1582.2	1710.3	1576.2
27.5°	1413.7	1417.1	1383.8	1349.4	1315.4	1314.3	1381.9	1454.8	1553.8	1725.6	1565.0
30°	1512.7	1518.3	1482.8	1439.1	1375.2	1322.5	1363.6	1429.0	1536.2	1757.4	1563.1
32.5°	1621.0	1627.0	1600.1	1554.2	1470.5	1373.3	1376.3	1431.3	1535.5	1801.9	1575.8
35°	1736.5	1743.2	1729.4	1690.5	1597.5	1467.1	1424.9	1467.5	1559.8	1869.9	1609.8
37.5°	1865.4	1875.8	1879.6	1842.6	1743.2	1590.8	1504.5	1536.2	1614.7	1964.4	1672.2
40°	2051.1	2065.6	2064.5	2011.5	1910.2	1757.8	1627.4	1635.6	1700.2	2090.7	1772.0
42.5°	2406.7	2409.7	2316.7	2201.2	2094.0	1933.4	1772.3	1765.6	1818.3	2250.6	1918.8
45°	2859.1	2846.8	2639.8	2416.8	2286.0	2135.1	1961.0	1928.1	1968.1	2445.6	2102.6
47.5°	3234.6	3206.2	2944.7	2636.9	2489.3	2354.4	2182.6	2125.0	2147.1	2666.7	2340.2
50°	3365.0	3343.7	3127.0	2819.9	2681.7	2621.9	2455.3	2373.8	2379.8	2930.5	2618.5
52.5°	3337.0	3334.0	3189.4	2940.6	2861.8	2902.9	2841.6	2731.4	2673.1	3223.4	2918.9
55°	3270.9	3277.2	3224.9	3081.1	3067.6	3174.1	3346.3	3264.9	3083.7	3518.9	3229.4
57.5°	3041.1	3057.5	3172.6	3257.8	3399.0	3557.4	3752.8	3729.6	3525.6	3838.3	3598.5
60°	2450.1	2488.2	2796.8	3223.4	3740.1	4235.5	4322.9	4269.1	3981.4	4234.7	4086.0
62.5°	1716.7	1756.3	2123.2	2790.8	3684.1	5001.4	5342.1	5110.1	4636.0	4818.7	4717.1
65°	919.1	938.1	1218.3	1936.4	3110.2	5159.4	6831.6	6478.6	5672.3	5538.6	5256.9
67.5°	507.0	517.4	624.7	977.7	1992.0	4543.3	7780.6	8047.3	6967.6	6017.9	5158.6
69°	458.4	468.1	538.4	740.5	1333.0	3756.5	7687.9	8460.9	7535.5	5970.5	4795.5
70°	448.3	457.3	520.4	682.6	1079.0	3096.4	7377.4	8355.1	7670.7	5800.5	4478.7
72.5°	403.5	413.2	474.5	613.1	922.0	1543.7	5843.8	7064.4	6964.2	5029.4	3397.1
75°	376.2	385.2	489.0	600.4	882.8	977.0	3852.5	5206.5	5119.4	3518.2	1831.8
77.5°	161.0	160.3	226.8	508.1	895.9	946.0	2070.1	3252.5	2967.5	1503.7	526.0
80°	107.6	105.7	107.6	149.4	821.5	951.2	1084.6	1650.9	1247.1	383.3	259.3
82.5°	92.7	91.2	94.5	91.2	288.8	1085.7	922.0	878.0	592.9	217.8	128.5
85°	62.4	59.8	81.4	81.8	136.4	964.6	1038.6	741.6	479.7	129.3	63.5
87.5°	29.9	29.1	47.4	57.9	80.0	391.9	1165.3	759.9	483.8	66.1	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299942

CATALOG NUMBER: GLNA-AF-02-LED-E1-SL3-7030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7	1970.7
2.5°	1951.7	1936.4	1921.4	1903.5	1884.8	1863.9	1853.4	1843.0	1840.3	1837.4	1826.9
5°	1897.9	1876.2	1838.9	1797.8	1754.4	1712.2	1680.1	1659.9	1644.6	1636.7	1622.9
7.5°	1828.4	1796.6	1731.3	1660.3	1587.4	1520.9	1463.4	1427.1	1392.8	1376.7	1358.4
10°	1762.3	1714.8	1613.2	1508.6	1404.0	1303.5	1209.0	1142.1	1082.7	1049.4	1025.9
12.5°	1705.5	1640.5	1499.6	1358.0	1214.6	1071.5	929.9	818.6	725.5	676.6	651.6
15°	1650.2	1571.7	1391.7	1212.0	1027.8	833.1	647.1	520.8	443.8	413.2	402.7
17.5°	1600.1	1499.6	1283.3	1064.8	835.0	599.6	434.9	365.4	335.9	325.8	322.4
20°	1545.9	1426.8	1170.9	910.8	634.0	419.2	339.6	309.0	297.0	294.0	292.5
22.5°	1493.6	1355.0	1063.3	746.1	455.4	323.5	291.8	279.1	277.2	279.8	279.8
25°	1449.2	1290.8	947.1	573.8	334.4	272.4	261.1	258.2	265.3	275.0	276.8
27.5°	1415.9	1238.1	823.4	423.7	266.4	236.9	236.5	241.3	258.9	277.6	281.3
30°	1393.1	1188.0	691.2	305.6	223.4	208.5	214.4	224.9	250.7	277.2	284.3
32.5°	1381.6	1151.1	553.3	236.5	191.3	183.1	193.2	205.9	231.3	255.9	265.3
35°	1390.5	1123.8	423.3	197.3	168.9	162.5	173.0	185.3	200.2	210.7	217.8
37.5°	1424.2	1112.9	319.4	176.7	153.5	147.6	155.8	162.9	168.9	171.9	175.2
40°	1496.6	1124.5	255.9	166.3	145.0	137.5	140.8	143.5	147.2	150.2	151.7
42.5°	1603.5	1159.3	229.4	162.1	140.5	129.6	128.9	130.0	134.9	140.5	141.6
45°	1752.9	1220.5	227.5	164.8	138.2	123.3	119.9	121.4	128.9	137.5	139.0
47.5°	1943.8	1313.9	242.5	172.6	140.1	119.9	114.3	116.2	125.5	137.1	139.0
50°	2175.1	1444.3	267.5	184.2	148.3	120.7	112.5	113.6	123.3	136.0	137.9
52.5°	2448.2	1629.3	294.8	195.4	156.9	125.5	113.9	111.3	120.3	131.5	133.7
55°	2751.9	1866.5	322.8	205.5	161.4	131.5	116.9	108.3	114.7	124.0	125.9
57.5°	3124.8	2198.3	371.4	215.2	164.4	135.6	119.9	105.4	107.6	114.3	115.8
60°	3629.5	2667.5	456.9	231.3	171.1	137.1	119.6	102.7	100.5	104.2	105.0
62.5°	4234.4	3177.1	528.3	251.4	182.3	138.2	117.3	100.9	94.5	94.5	95.3
65°	4593.4	3313.4	488.7	268.2	191.7	137.1	114.7	99.0	90.0	85.9	86.3
67.5°	4288.9	2914.1	418.8	271.6	191.3	131.9	110.6	95.6	85.6	79.2	78.8
69°	3907.5	2514.3	387.4	262.6	182.3	125.2	105.4	91.9	82.2	75.5	75.1
70°	3600.0	2270.4	366.9	252.9	172.6	120.3	101.2	88.5	79.6	73.2	72.5
72.5°	2617.4	1487.7	313.4	217.4	142.3	100.9	87.4	77.7	71.0	67.2	66.5
75°	1308.0	709.5	254.4	176.3	109.1	80.7	71.7	65.0	61.6	60.9	60.5
77.5°	429.6	325.0	181.9	131.5	81.1	63.1	57.9	53.1	52.3	54.5	53.8
80°	236.1	189.0	115.4	87.0	55.3	46.3	45.6	43.0	44.1	47.8	47.1
82.5°	120.3	98.3	71.4	52.3	37.4	33.3	36.2	34.7	36.2	39.6	39.2
85°	59.4	53.8	45.2	31.8	24.7	21.3	25.8	26.9	27.6	30.3	30.3
87.5°	34.4	31.8	23.9	14.9	12.3	11.2	14.9	14.6	17.2	18.7	18.3
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)