

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: P301213

Luminaire Tested: **GLNA-AF-03-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194839)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-T3R-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11797.9 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

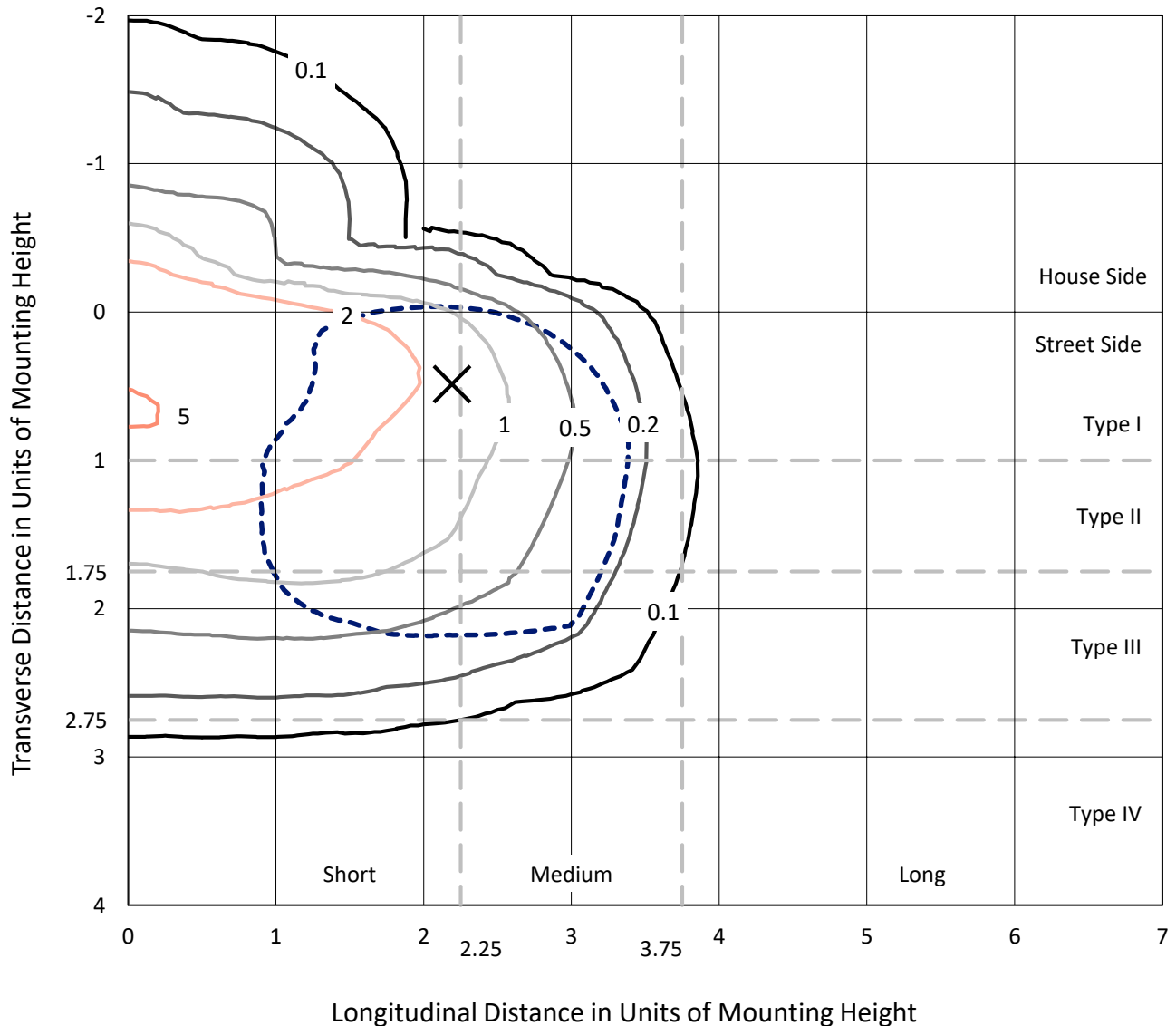
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

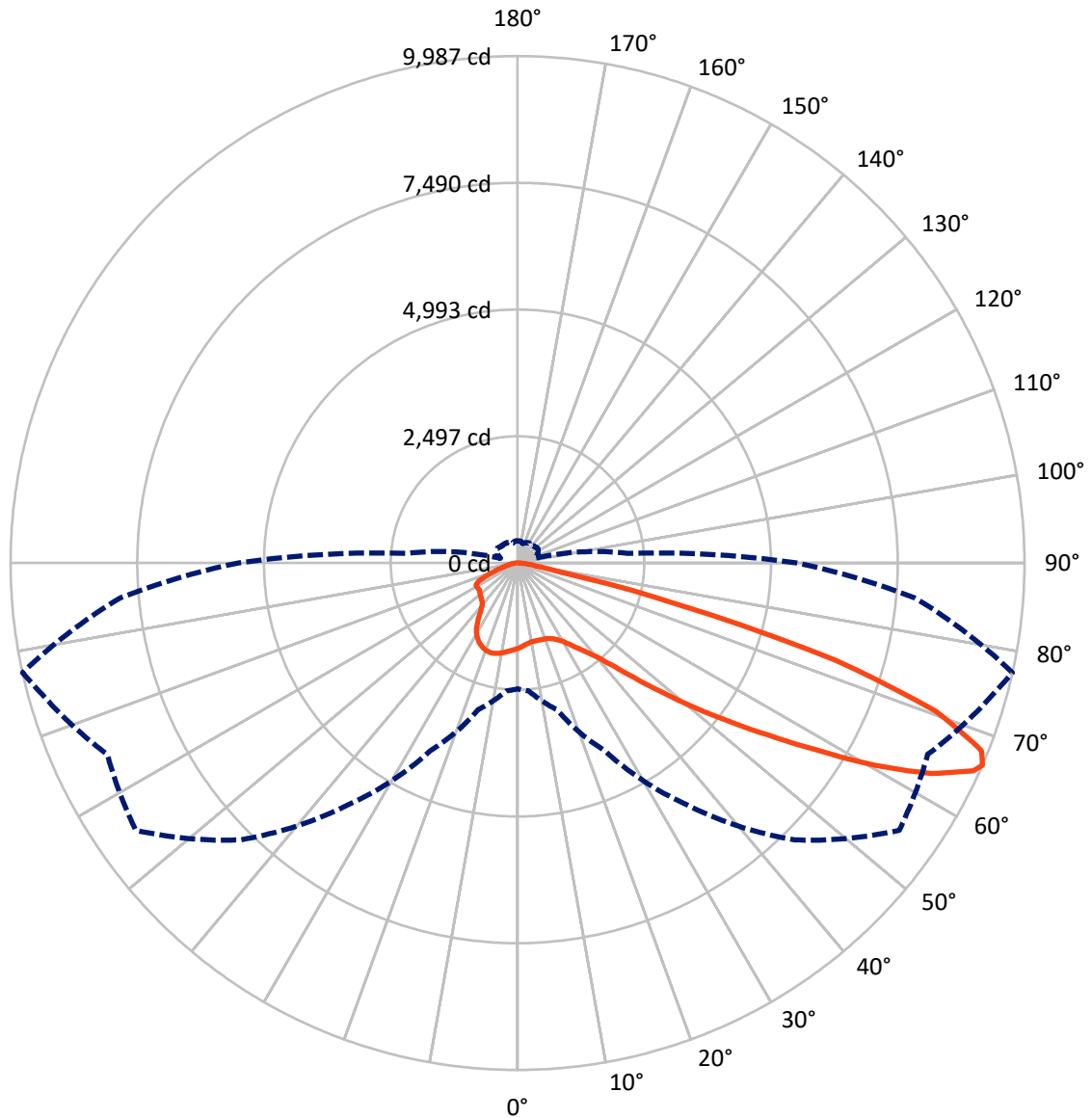
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2015.6	0.0	2015.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9782.2	0.0	9782.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	11797.9	0.0	11797.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	1.3
10°-20°	423.8	3.6
20°-30°	723.2	6.1
30°-40°	1157.7	9.8
40°-50°	1788.6	15.2
50°-60°	2536.8	21.5
60°-70°	3393.6	28.8
70°-80°	1473.8	12.5
80°-90°	150.3	1.3
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°	11797.9	100.0
0°-180°	11797.9	100.0



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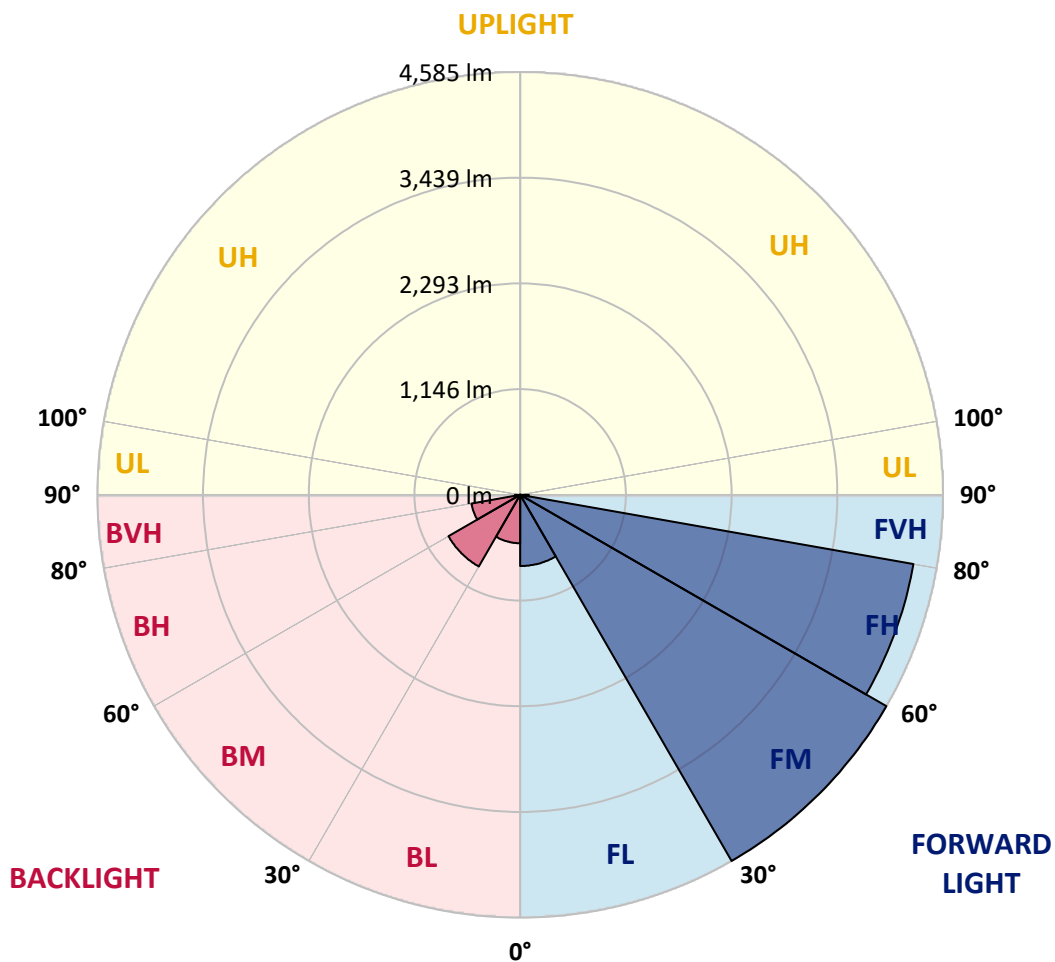
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	772.2	6.5			
FM	(30°-60°)	4585.2	38.9			
FH	(60°-80°)	4330.5	36.7			G2/5000
FVH	(80°-90°)	94.3	0.8			G1/100
BL	(0°-30°)	524.9	4.4	B2/1000		
BM	(30°-60°)	897.8	7.6	B1/1000		
BH	(60°-80°)	536.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	56.0	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°	65°	75°	77.5°	85°
0°	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2
2.5°	1487.3	1497.3	1505.7	1513.5	1529.0	1554.6	1584.2	1608.1	1642.7	1649.5	1667.9
5°	1350.8	1350.8	1357.3	1369.2	1390.3	1428.7	1468.9	1522.4	1597.7	1615.4	1664.5
7.5°	1284.4	1284.9	1288.8	1298.8	1317.2	1352.3	1396.3	1459.5	1561.4	1590.9	1674.5
10°	1308.9	1303.3	1294.9	1290.0	1292.7	1313.3	1355.1	1425.4	1539.1	1576.9	1696.9
12.5°	1445.9	1435.5	1406.5	1368.0	1331.2	1316.2	1340.6	1409.2	1529.7	1573.7	1726.5
15°	1670.1	1665.7	1611.5	1531.9	1442.7	1368.0	1351.3	1403.1	1530.7	1577.6	1761.6
17.5°	1951.1	1944.9	1873.6	1757.7	1612.2	1466.7	1388.6	1408.1	1534.6	1584.2	1795.5
20°	2234.8	2215.8	2139.0	2000.7	1813.9	1600.9	1450.5	1421.0	1539.6	1591.4	1831.3
22.5°	2446.7	2431.0	2361.9	2227.6	2012.4	1756.5	1533.5	1443.2	1555.8	1612.7	1875.2
25°	2632.8	2633.8	2565.3	2435.5	2213.1	1921.6	1640.6	1502.8	1597.0	1656.1	1935.4
27.5°	2863.0	2849.7	2785.6	2656.8	2411.5	2088.2	1769.8	1584.9	1658.4	1718.0	2014.6
30°	3138.3	3128.9	3054.8	2908.8	2631.6	2267.1	1917.5	1680.0	1737.6	1799.4	2118.2
32.5°	3462.2	3457.8	3380.9	3193.0	2885.8	2477.9	2091.0	1806.1	1855.8	1919.9	2267.1
35°	3842.5	3843.0	3752.2	3526.3	3164.0	2723.1	2287.7	1968.3	1999.6	2066.4	2444.5
37.5°	4076.6	4104.9	4071.0	3840.8	3478.9	2997.4	2543.0	2183.5	2163.4	2231.0	2634.5
40°	4126.7	4161.3	4268.8	4151.9	3831.3	3299.5	2769.4	2390.3	2365.3	2447.7	2879.2
42.5°	4056.5	4104.4	4331.9	4414.3	4205.4	3671.8	3073.7	2697.5	2665.7	2776.6	3183.6
45°	4014.6	4050.4	4313.5	4551.0	4529.8	4092.8	3461.2	3083.1	3071.5	3217.0	3534.8
47.5°	3942.2	3974.6	4227.6	4582.8	4720.5	4478.4	3926.7	3554.9	3577.7	3768.4	3931.1
50°	3981.2	3994.5	4131.8	4501.9	4775.7	4761.2	4446.7	4101.0	4179.2	4417.2	4379.9
52.5°	3975.6	4010.2	4120.6	4369.2	4782.9	4935.7	4959.0	4710.4	4874.9	5148.0	4877.6
55°	3214.3	3277.7	3989.7	4335.8	4808.4	5106.6	5415.0	5352.6	5659.1	5977.4	5439.5
57.5°	3069.3	3109.5	3504.1	4406.0	4944.4	5433.4	5922.2	6059.4	6572.2	6941.8	6124.1
60°	3040.8	3090.4	3499.0	4491.9	5220.4	5965.7	6674.3	6915.1	7683.3	8088.0	6917.8
62.5°	2952.2	3005.7	3466.1	4480.6	5612.3	6702.1	7637.0	7824.9	8736.8	9130.4	7581.8
65°	2671.3	2721.4	3198.1	4300.7	5876.6	7488.2	8776.3	8658.8	9568.6	9864.4	7912.8
66°	2478.9	2528.0	2986.8	4088.9	5815.2	7711.1	9180.0	8916.9	9754.7	9986.6	7848.2
67.5°	2127.2	2165.6	2576.4	3614.5	5489.1	7773.6	9519.4	9110.8	9774.1	9856.2	7478.7
70°	1344.0	1355.1	1674.5	2495.1	4155.2	6741.6	9002.6	8629.3	8968.2	8746.2	6269.6
72.5°	583.1	579.3	803.9	1269.2	2352.5	4523.7	7282.4	7120.2	7035.0	6528.8	4388.8
75°	324.4	329.0	417.6	589.2	956.0	2222.0	4763.9	4558.8	3849.1	3284.5	1990.1
77.5°	260.3	266.5	346.2	418.1	429.2	774.9	2229.3	1813.9	1092.0	876.3	552.9
80°	205.7	216.9	302.1	325.6	289.3	319.3	720.2	575.9	432.1	396.3	286.6
82.5°	162.7	170.6	259.2	246.4	202.4	215.2	345.0	336.2	281.0	255.9	165.6
85°	117.1	131.5	213.0	185.7	132.7	145.0	229.0	219.6	161.0	131.5	73.1
87.5°	47.9	62.4	150.6	123.2	74.1	67.5	114.3	107.5	76.3	55.7	36.3
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°	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2	1681.2
2.5°	1679.5	1692.9	1710.3	1720.9	1726.5	1730.3	1736.4	1735.9	1737.6	1738.1	1740.3
5°	1690.7	1713.0	1738.1	1744.9	1744.9	1738.6	1732.5	1722.4	1718.5	1717.5	1718.5
7.5°	1719.7	1744.2	1766.0	1758.2	1741.5	1716.8	1685.1	1657.3	1642.2	1637.2	1636.2
10°	1756.5	1786.0	1795.0	1765.5	1716.3	1657.3	1594.3	1548.6	1522.4	1515.2	1513.0
12.5°	1801.1	1828.9	1816.8	1754.3	1663.3	1568.1	1481.1	1408.1	1353.5	1336.2	1335.1
15°	1850.2	1872.0	1828.9	1719.7	1584.2	1443.8	1288.8	1162.9	1094.9	1073.1	1071.4
17.5°	1895.9	1907.1	1821.7	1659.5	1467.7	1240.4	1034.6	937.6	914.3	919.9	920.9
20°	1934.9	1934.9	1797.2	1573.0	1284.4	972.2	842.2	840.7	857.4	874.1	877.5
22.5°	1977.8	1952.1	1754.3	1451.0	1024.5	795.5	776.6	792.1	811.0	829.4	832.3
25°	2030.8	1966.1	1694.6	1266.0	805.4	722.4	729.6	742.5	751.9	763.7	765.4
27.5°	2089.9	1983.9	1616.1	1011.2	699.1	676.8	682.4	686.8	685.6	690.1	691.2
30°	2160.6	2004.6	1508.4	790.4	655.0	637.7	627.7	623.8	623.8	631.1	633.8
32.5°	2255.4	2035.2	1354.0	677.3	633.8	609.8	577.6	563.1	568.6	593.1	598.7
35°	2359.7	2068.1	1145.0	638.8	629.4	597.0	546.9	520.0	520.7	543.5	550.7
37.5°	2473.3	2109.9	915.8	631.6	639.3	597.7	530.6	493.9	478.8	478.8	481.7
40°	2618.8	2152.8	741.5	636.6	660.6	604.2	522.4	473.3	430.9	432.1	434.3
42.5°	2808.4	2189.6	647.8	647.1	686.3	613.2	521.7	445.9	409.1	434.3	457.1
45°	3019.2	2208.0	606.4	656.7	706.9	618.8	512.9	441.5	412.0	486.6	530.1
47.5°	3261.5	2197.4	583.6	659.9	711.9	618.8	502.8	452.2	431.4	563.6	614.4
50°	3527.5	2166.8	561.4	653.4	710.2	617.6	512.3	462.6	438.7	576.9	612.0
52.5°	3840.3	2141.2	537.9	638.8	698.4	611.5	523.4	458.2	415.9	524.6	549.0
55°	4196.9	2148.4	511.7	618.2	680.0	599.8	519.5	440.4	391.9	462.1	477.1
57.5°	4653.0	2234.8	480.5	592.1	655.0	580.3	505.7	432.1	384.7	419.3	428.2
60°	5161.8	2385.2	441.5	565.8	623.8	549.0	495.0	436.0	388.0	415.9	420.3
62.5°	5535.4	2472.8	408.1	527.3	581.5	514.4	481.7	440.9	397.0	427.5	426.5
65°	5636.8	2329.0	366.3	471.1	524.1	478.3	464.8	446.4	400.9	437.0	432.1
66°	5494.7	2174.1	347.9	444.9	495.0	460.4	456.6	445.9	399.2	438.2	429.7
67.5°	5149.7	1856.3	316.1	406.4	448.8	433.8	443.2	440.9	394.6	437.0	425.3
70°	4199.8	1266.5	270.4	338.4	373.5	381.8	417.6	423.1	380.1	417.6	391.9
72.5°	2934.4	771.5	239.2	262.6	302.1	325.6	382.5	398.5	360.7	364.6	340.1
75°	1418.1	409.8	216.9	203.6	234.6	272.1	340.1	365.1	330.0	305.0	296.0
77.5°	442.0	250.3	184.0	163.9	184.0	219.6	284.2	320.0	293.8	255.4	252.0
80°	237.5	184.0	141.6	131.5	145.5	172.3	223.5	267.0	252.5	229.0	204.6
82.5°	156.6	119.3	104.8	101.9	110.9	131.5	166.1	221.3	221.3	196.3	142.8
85°	80.8	73.1	71.9	71.9	77.5	87.6	113.1	170.6	181.8	103.6	85.9
87.5°	40.2	41.9	39.0	40.7	43.5	42.9	54.0	85.9	102.6	63.0	52.3
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)