

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: P301087

Luminaire Tested: **GLNA-AF-02-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301087
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-02-LED-E1-T3R-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12002 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

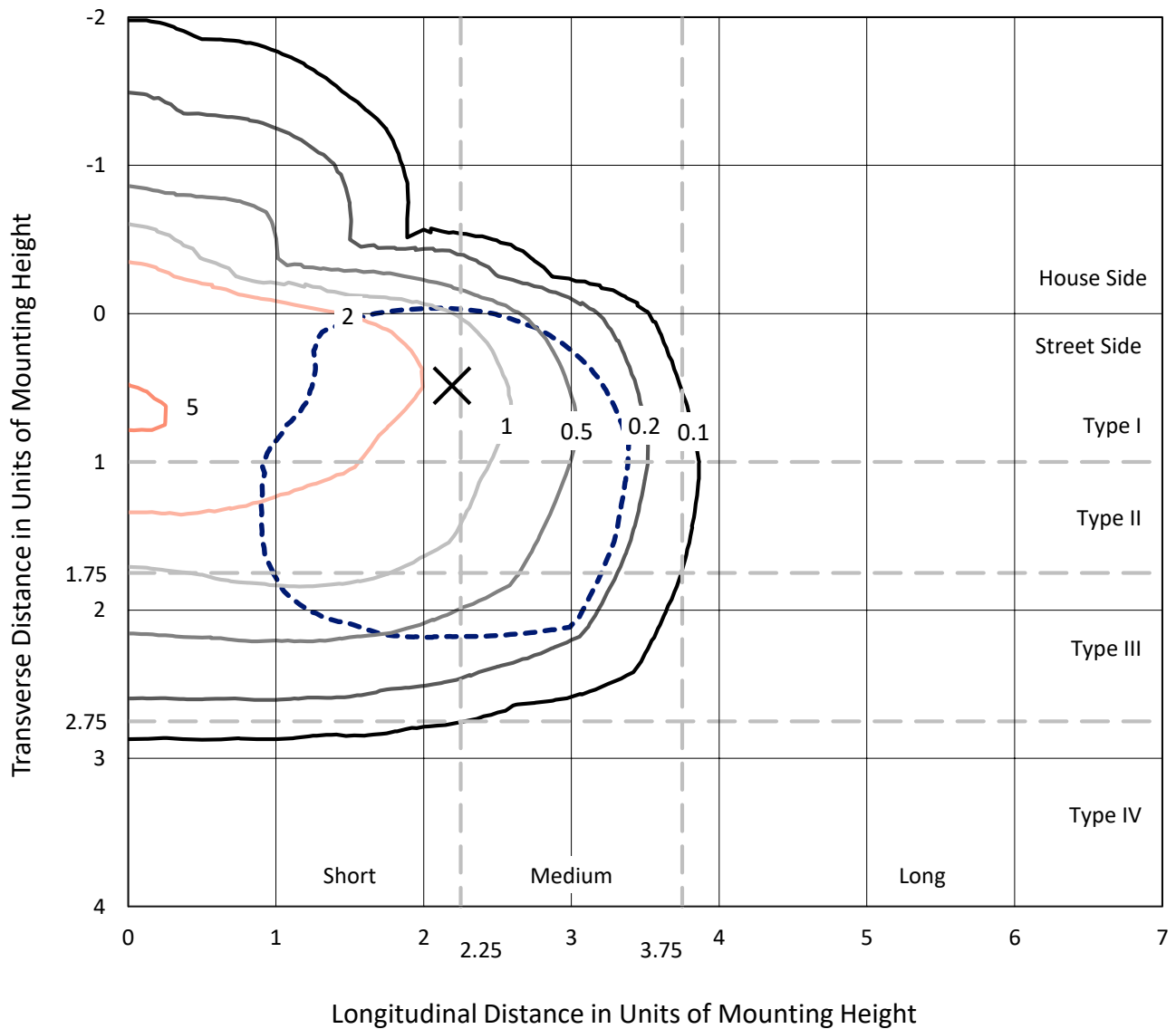


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Iso-Footcandle Lines of Horizontal Illumination

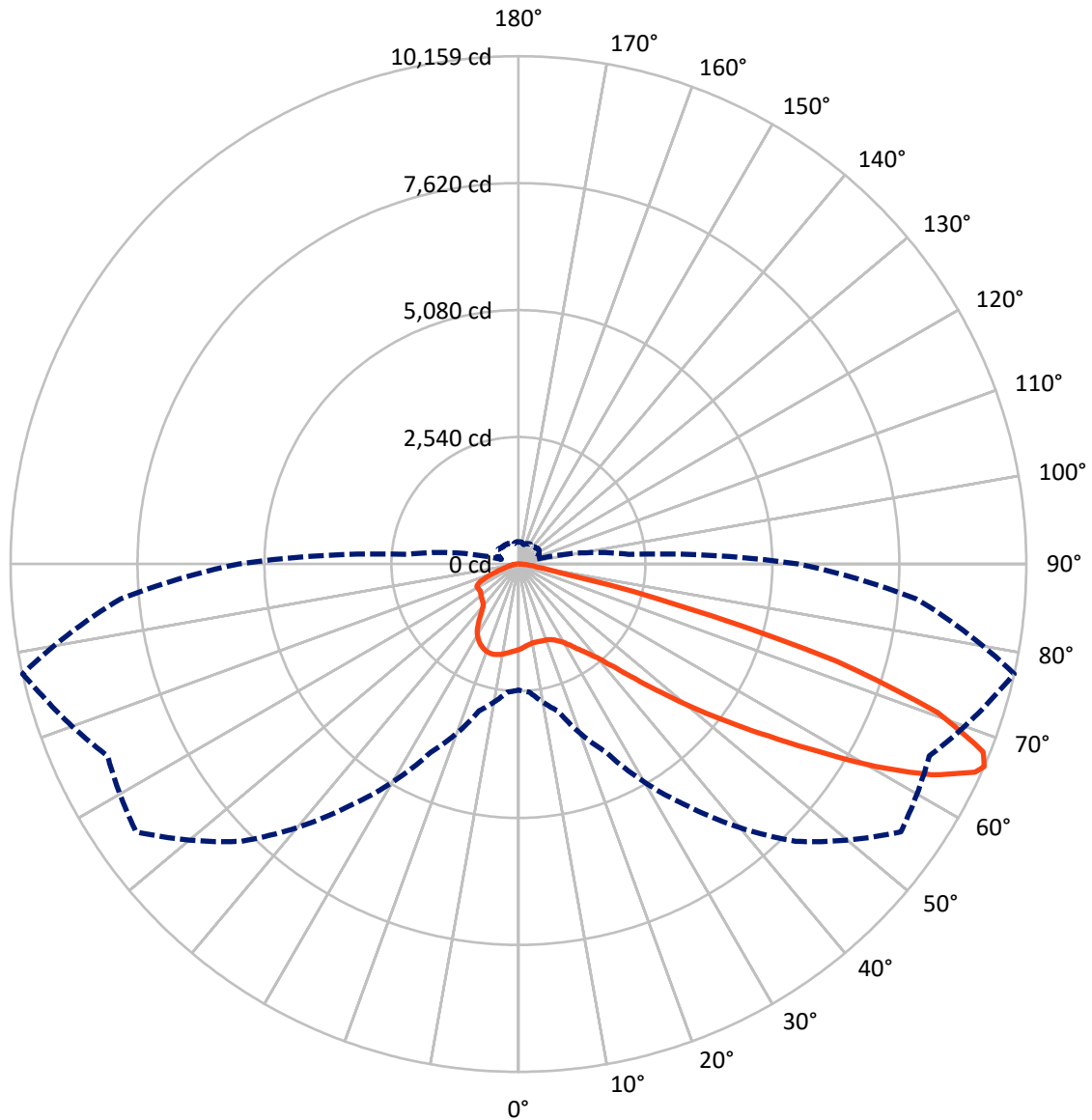
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	2050.5	0.0	2050.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	9951.5	0.0	9951.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	12002.0	0.0	12002.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	1.3
10°-20°	431.1	3.6
20°-30°	735.7	6.1
30°-40°	1177.7	9.8
40°-50°	1819.5	15.2
50°-60°	2580.7	21.5
60°-70°	3452.3	28.8
70°-80°	1499.3	12.5
80°-90°	152.9	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°	12002.0	100.0
0°-180°	12002.0	100.0



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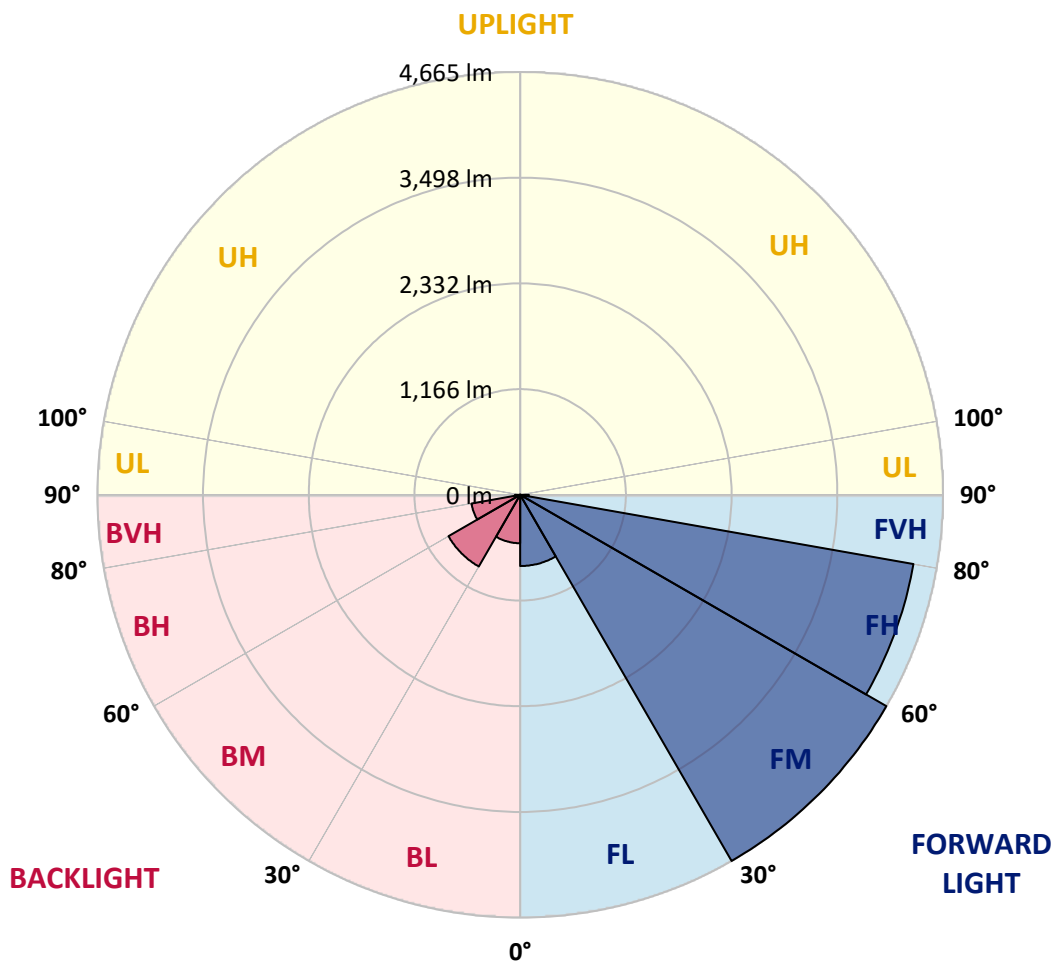
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	785.6	6.5			
FM	(30°-60°)	4664.6	38.9			
FH	(60°-80°)	4405.5	36.7			G2/5000
FVH	(80°-90°)	95.9	0.8			G1/100
BL	(0°-30°)	534.0	4.4	B2/1000		
BM	(30°-60°)	913.4	7.6	B1/1000		
BH	(60°-80°)	546.1	4.5	B2/1000		G2/1000
BVH	(80°-90°)	57.0	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°	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3
2.5°	1513.0	1523.2	1531.8	1539.6	1555.4	1581.5	1611.6	1636.0	1671.2	1678.0	1696.8
5°	1374.1	1374.1	1380.8	1392.8	1414.3	1453.5	1494.3	1548.7	1625.3	1643.4	1693.3
7.5°	1306.6	1307.2	1311.1	1321.2	1340.0	1375.7	1420.5	1484.7	1588.4	1618.5	1703.5
10°	1331.5	1325.9	1317.3	1312.3	1315.1	1336.0	1378.6	1450.0	1565.7	1604.2	1726.3
12.5°	1471.0	1460.3	1430.8	1391.6	1354.2	1338.9	1363.8	1433.5	1556.1	1600.9	1756.3
15°	1699.0	1694.5	1639.4	1558.4	1467.7	1391.6	1374.6	1427.4	1557.2	1604.9	1792.1
17.5°	1984.9	1978.5	1906.1	1788.1	1640.1	1492.1	1412.6	1432.5	1561.1	1611.6	1826.6
20°	2273.5	2254.1	2176.0	2035.4	1845.3	1628.6	1475.6	1445.6	1566.3	1619.0	1863.0
22.5°	2489.0	2473.0	2402.8	2266.1	2047.2	1786.9	1560.1	1468.2	1582.7	1640.6	1907.6
25°	2678.4	2679.4	2609.7	2477.7	2251.4	1954.8	1668.9	1528.8	1624.6	1684.7	1968.9
27.5°	2912.6	2899.0	2833.8	2702.8	2453.3	2124.3	1800.5	1612.3	1687.1	1747.8	2049.4
30°	3192.6	3183.0	3107.6	2959.1	2677.2	2306.3	1950.7	1709.1	1767.7	1830.5	2154.9
32.5°	3522.1	3517.7	3439.4	3248.3	2935.8	2520.8	2127.2	1837.4	1887.9	1953.1	2306.3
35°	3909.0	3909.5	3817.1	3587.4	3218.7	2770.2	2327.2	2002.4	2034.1	2102.1	2486.8
37.5°	4147.1	4176.0	4141.4	3907.2	3539.1	3049.2	2587.0	2221.3	2200.9	2269.6	2680.1
40°	4198.1	4233.3	4342.7	4223.7	3897.6	3356.6	2817.3	2431.6	2406.2	2490.0	2929.1
42.5°	4126.7	4175.4	4406.9	4490.7	4278.1	3735.4	3126.9	2744.1	2711.9	2824.7	3238.6
45°	4084.1	4120.5	4388.2	4629.8	4608.1	4163.6	3521.1	3136.5	3124.6	3272.6	3595.9
47.5°	4010.4	4043.4	4300.8	4662.0	4802.2	4555.9	3994.6	3616.4	3639.6	3833.6	3999.1
50°	4050.1	4063.7	4203.3	4579.8	4858.3	4843.5	4523.7	4172.0	4251.5	4493.6	4455.7
52.5°	4044.4	4079.6	4191.9	4444.8	4865.7	5021.1	5044.8	4791.9	4959.3	5237.1	4962.0
55°	3269.9	3334.4	4058.7	4410.8	4891.6	5195.0	5508.7	5445.2	5757.0	6080.8	5533.6
57.5°	3122.4	3163.3	3564.7	4482.3	5030.0	5527.4	6024.7	6164.3	6685.9	7061.9	6230.0
60°	3093.4	3143.9	3559.5	4569.7	5310.7	6069.0	6789.8	7034.8	7816.2	8227.9	7037.5
62.5°	3003.2	3057.7	3526.1	4558.2	5709.4	6818.1	7769.2	7960.3	8888.0	9288.4	7713.0
65°	2717.5	2768.5	3253.4	4375.1	5978.3	7617.7	8928.1	8808.6	9734.1	10035.1	8049.7
66°	2521.8	2571.7	3038.4	4159.6	5915.8	7844.5	9338.9	9071.2	9923.5	10159.4	7984.0
67.5°	2164.0	2203.1	2621.0	3677.0	5584.1	7908.1	9684.1	9268.5	9943.2	10026.7	7608.1
70°	1367.3	1378.6	1703.5	2538.3	4227.1	6858.3	9158.4	8778.6	9123.4	8897.6	6378.0
72.5°	593.2	589.3	817.8	1291.2	2393.2	4601.9	7408.4	7243.4	7156.7	6641.8	4464.8
75°	330.0	334.6	424.8	599.4	972.5	2260.5	4846.3	4637.7	3915.7	3341.3	2024.5
77.5°	264.8	271.1	352.2	425.3	436.6	788.3	2267.8	1845.3	1110.9	891.5	562.5
80°	209.3	220.6	307.3	331.2	294.3	324.9	732.7	585.8	439.6	403.2	291.5
82.5°	165.5	173.6	263.7	250.7	205.9	218.9	351.0	342.0	285.9	260.3	168.4
85°	119.2	133.8	216.7	188.9	135.0	147.5	233.0	223.4	163.8	133.8	74.3
87.5°	48.8	63.5	153.2	125.3	75.4	68.7	116.2	109.4	77.6	56.7	36.9
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°	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3	1710.3
2.5°	1708.6	1722.2	1739.9	1750.7	1756.3	1760.3	1766.5	1766.0	1767.7	1768.2	1770.4
5°	1719.9	1742.6	1768.2	1775.1	1775.1	1768.7	1762.5	1752.2	1748.3	1747.2	1748.3
7.5°	1749.5	1774.4	1796.5	1788.6	1771.6	1746.5	1714.3	1685.9	1670.7	1665.5	1664.5
10°	1786.9	1816.9	1826.0	1796.0	1746.0	1685.9	1621.9	1575.4	1548.7	1541.4	1539.1
12.5°	1832.2	1860.6	1848.2	1784.7	1692.1	1595.3	1506.7	1432.5	1376.9	1359.4	1358.2
15°	1882.2	1904.3	1860.6	1749.5	1611.6	1468.7	1311.1	1183.0	1113.8	1091.7	1090.0
17.5°	1928.7	1940.1	1853.2	1688.2	1493.1	1261.8	1052.5	953.8	930.1	935.8	936.8
20°	1968.4	1968.4	1828.3	1600.3	1306.6	989.0	856.8	855.2	872.2	889.2	892.7
22.5°	2012.0	1985.9	1784.7	1476.1	1042.2	809.2	790.0	805.8	825.0	843.7	846.7
25°	2065.9	2000.2	1723.9	1287.9	819.4	734.9	742.3	755.3	764.9	777.0	778.7
27.5°	2126.0	2018.2	1644.0	1028.7	711.2	688.5	694.2	698.7	697.5	702.1	703.1
30°	2198.0	2039.3	1534.5	804.1	666.4	648.7	638.6	634.6	634.6	642.0	644.7
32.5°	2294.4	2070.4	1377.4	689.0	644.7	620.4	587.6	572.8	578.5	603.4	609.0
35°	2400.6	2103.9	1164.8	649.9	640.3	607.3	556.3	529.0	529.7	552.9	560.3
37.5°	2516.1	2146.4	931.7	642.5	650.4	608.0	539.8	502.4	487.1	487.1	490.0
40°	2664.1	2190.1	754.3	647.7	672.0	614.7	531.4	481.5	438.4	439.6	441.8
42.5°	2856.9	2227.5	659.0	658.3	698.1	623.8	530.7	453.6	416.2	441.8	465.0
45°	3071.4	2246.2	616.9	668.1	719.1	629.5	521.8	449.2	419.1	495.0	539.3
47.5°	3318.0	2235.4	593.7	671.4	724.2	629.5	511.5	460.0	438.9	573.3	625.0
50°	3588.6	2204.3	571.1	664.7	722.5	628.3	521.1	470.6	446.3	586.9	622.6
52.5°	3906.7	2178.2	547.2	649.9	710.5	622.1	532.4	466.2	423.1	533.6	558.5
55°	4269.5	2185.6	520.6	628.9	691.8	610.2	528.5	448.0	398.7	470.1	485.4
57.5°	4733.5	2273.5	488.8	602.3	666.4	590.3	514.4	439.6	391.3	426.5	435.6
60°	5251.2	2426.5	449.2	575.5	634.6	558.5	503.6	443.5	394.7	423.1	427.5
62.5°	5631.1	2515.6	415.2	536.4	591.5	523.3	490.0	448.5	403.8	434.9	433.9
65°	5734.3	2369.3	372.6	479.2	533.1	486.6	472.9	454.2	407.8	444.5	439.6
66°	5589.7	2211.7	353.9	452.6	503.6	468.4	464.5	453.6	406.1	445.7	437.2
67.5°	5238.8	1888.4	321.6	413.5	456.6	441.3	450.9	448.5	401.4	444.5	432.7
70°	4272.5	1288.4	275.1	344.3	380.0	388.4	424.8	430.5	386.7	424.8	398.7
72.5°	2985.2	784.8	243.3	267.2	307.3	331.2	389.1	405.4	366.9	370.9	346.0
75°	1442.6	416.9	220.6	207.1	238.7	276.8	346.0	371.4	335.7	310.3	301.2
77.5°	449.7	254.6	187.2	166.7	187.2	223.4	289.1	325.5	298.9	259.8	256.4
80°	241.6	187.2	144.1	133.8	148.0	175.3	227.3	271.6	256.9	233.0	208.1
82.5°	159.3	121.4	106.6	103.7	112.8	133.8	169.0	225.1	225.1	199.7	145.3
85°	82.2	74.3	73.1	73.1	78.8	89.1	115.0	173.6	184.9	105.4	87.4
87.5°	40.9	42.6	39.7	41.4	44.3	43.6	54.9	87.4	104.4	64.0	53.2
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)