

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: P300371

Luminaire Tested: **GLNA-AF-03-LED-E1-T4FT-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV  
Forward Throw OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14719.3 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

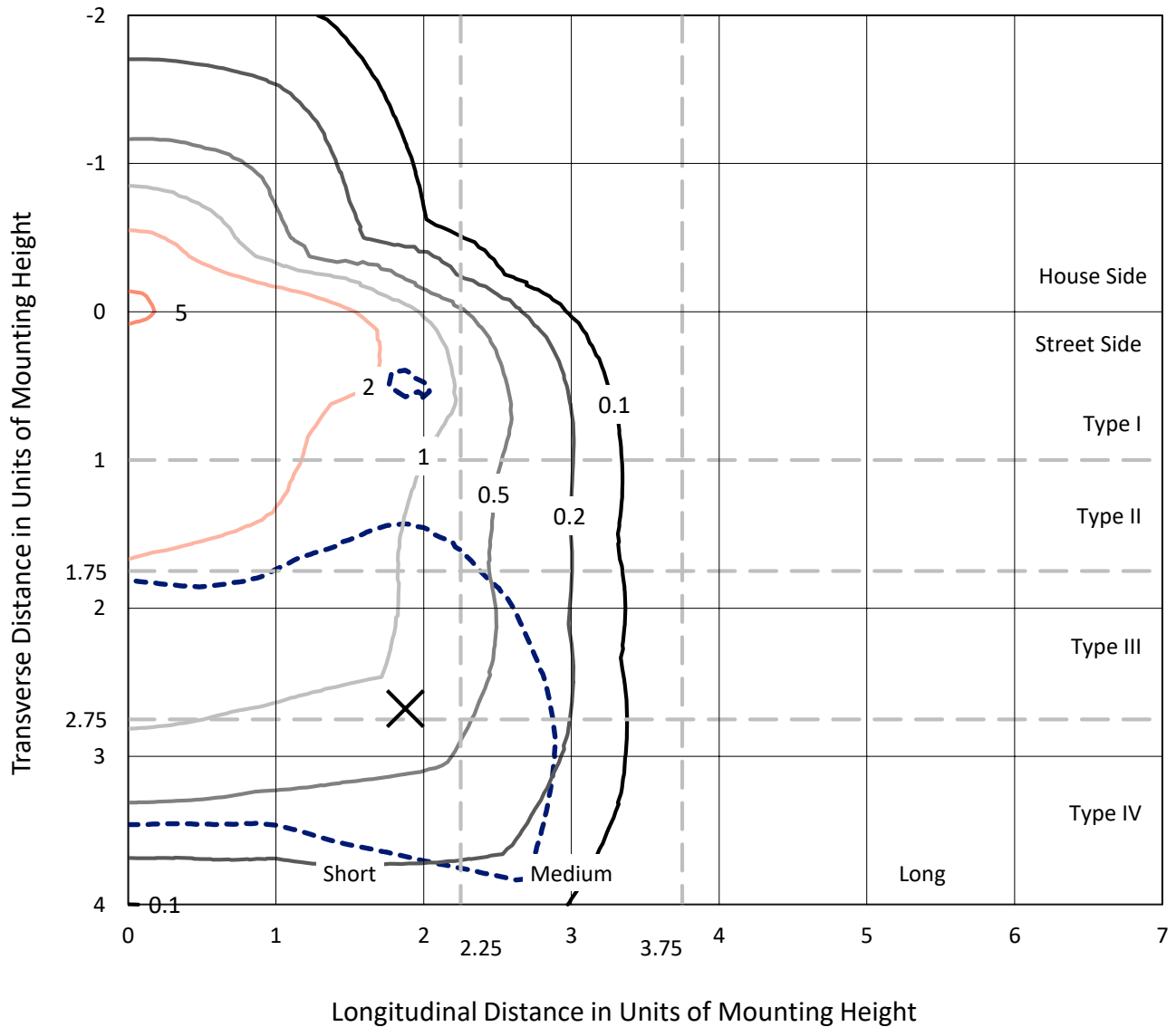
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

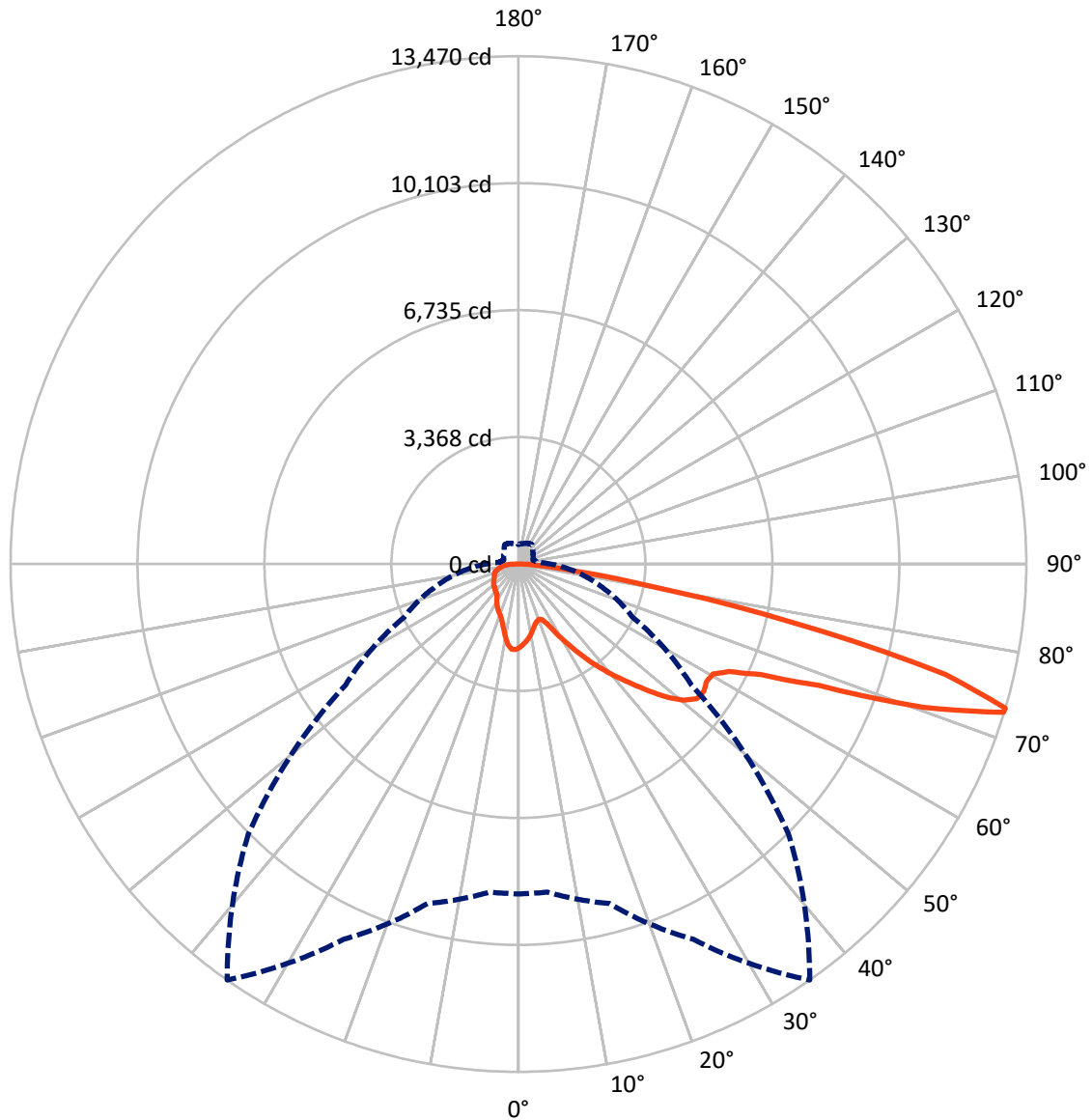
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P300371  
CATALOG NUMBER: GLNA-AF-03-LED-E1-T4FT-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2807.4	0.0	2807.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	11911.9	0.0	11911.9
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	14719.3	0.0	14719.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.1	1.4
10°-20°	502.0	3.4
20°-30°	811.5	5.5
30°-40°	1360.8	9.2
40°-50°	2097.6	14.3
50°-60°	2814.1	19.1
60°-70°	3748.9	25.5
70°-80°	2859.3	19.4
80°-90°	324.1	2.2
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°	14719.3	100.0
0°-180°	14719.3	100.0



REPORT NUMBER: P300371

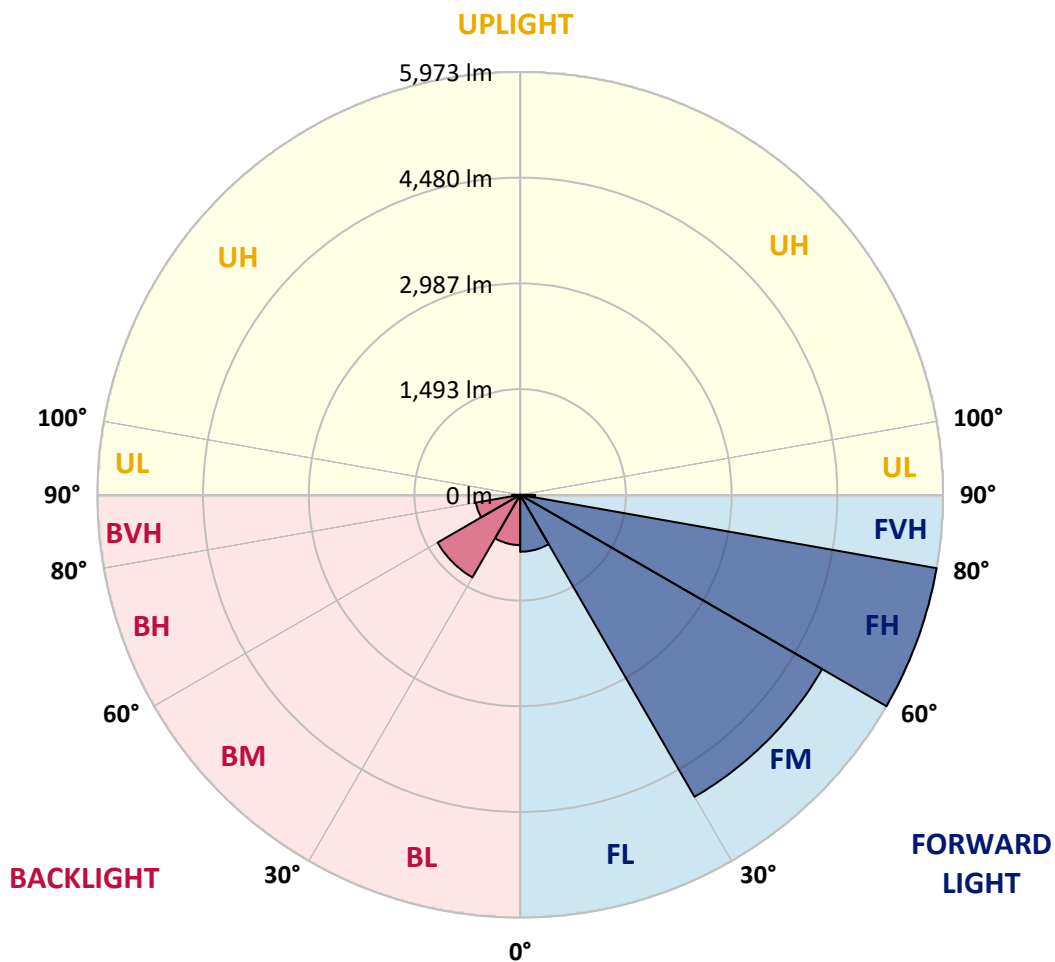
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	804.2	5.5			
FM	(30°-60°)	4925.2	33.5			
FH	(60°-80°)	5973.1	40.6			G3/7500
FVH	(80°-90°)	209.5	1.4			G2/225
BL	(0°-30°)	710.4	4.8	B2/1000		
BM	(30°-60°)	1347.2	9.2	B2/2500		
BH	(60°-80°)	635.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	114.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2134.0	2138.2	2133.2	2139.6	2150.2	2161.5	2169.3	2180.6	2193.3	2211.0	2215.2
5°	2033.6	2039.9	2039.9	2051.3	2071.8	2090.1	2107.1	2125.5	2152.3	2182.7	2194.7
7.5°	1923.3	1926.9	1933.2	1950.2	1979.9	2006.0	2030.0	2059.7	2096.5	2136.8	2158.0
10°	1790.4	1795.4	1805.3	1829.3	1869.6	1905.6	1940.3	1981.3	2027.9	2078.1	2105.0
12.5°	1696.4	1695.0	1699.2	1716.9	1752.3	1796.1	1846.3	1898.6	1955.8	2014.5	2047.0
15°	1664.6	1656.8	1640.6	1636.3	1655.4	1699.2	1757.2	1821.5	1890.1	1960.8	2001.1
17.5°	1684.4	1671.0	1626.4	1593.9	1591.1	1624.3	1685.8	1757.9	1837.1	1923.3	1973.5
20°	1808.8	1777.0	1667.4	1591.8	1565.7	1581.9	1635.6	1712.0	1805.3	1919.8	1984.1
22.5°	2106.4	2059.7	1827.2	1686.5	1598.2	1578.4	1618.7	1700.0	1808.8	1963.6	2045.6
25°	2539.7	2473.2	2101.4	1922.6	1740.2	1634.9	1644.1	1727.5	1859.0	2065.4	2164.3
27.5°	2881.8	2838.7	2459.8	2255.5	1998.9	1787.6	1726.8	1796.8	1961.5	2232.2	2333.3
30°	3085.4	3059.2	2842.9	2633.0	2329.0	2030.8	1885.1	1926.9	2121.9	2463.3	2546.8
32.5°	3321.4	3305.9	3199.9	3006.9	2685.3	2350.2	2136.1	2121.2	2336.8	2741.1	2779.3
35°	3566.0	3561.1	3498.9	3360.3	3067.7	2771.5	2469.0	2368.6	2570.8	3029.5	3005.5
37.5°	3793.6	3785.1	3749.1	3668.5	3467.8	3223.9	2808.3	2622.4	2823.1	3305.2	3198.5
40°	4212.8	4146.3	4022.6	3961.8	3872.1	3604.9	3077.6	2859.2	3084.7	3568.1	3365.3
42.5°	4723.8	4615.7	4385.2	4301.8	4289.1	3905.3	3261.4	3088.9	3348.3	3829.0	3529.3
45°	5126.0	5024.2	4825.6	4720.3	4766.9	4177.4	3445.9	3334.2	3619.7	4102.5	3698.2
47.5°	5555.1	5395.3	5132.4	5164.2	5266.0	4434.7	3633.9	3597.8	3917.3	4408.6	3908.1
50°	5570.6	5448.3	5333.1	5523.3	5681.6	4671.5	3869.3	3874.2	4281.3	4793.8	4187.3
52.5°	5247.6	5221.4	5404.5	5703.5	5931.8	4858.8	4137.1	4159.8	4747.1	5236.3	4494.1
55°	5134.5	5104.8	5316.2	5640.6	5965.7	5013.6	4427.7	4468.7	5310.5	5702.8	4793.1
57.5°	5410.2	5344.4	5358.6	5610.9	5883.0	5183.3	4744.3	4827.0	5922.6	6110.6	4985.4
60°	6180.6	6040.0	5772.8	5766.4	5927.6	5437.7	5110.5	5211.5	6558.8	6305.7	4910.4
62.5°	7261.4	7120.7	6620.3	6294.4	6270.4	5857.6	5560.0	5586.9	6926.3	6041.4	4453.1
65°	8431.2	8305.4	7746.3	7286.1	7064.2	6553.1	6082.4	5754.4	6806.2	5314.0	3653.0
67.5°	9851.3	9716.2	9235.6	8810.8	8597.3	7675.6	6449.2	5593.9	6043.5	4116.6	2625.9
70°	10844.4	10706.5	10517.1	10861.3	11383.7	9295.0	6496.6	4941.5	4513.9	2736.2	1580.5
72.5°	9548.7	9484.4	9830.0	11279.8	13455.4	10277.5	5872.4	3597.8	2621.7	1452.6	914.7
73°	8748.6	8734.4	9323.9	10986.4	13470.3	10126.2	5598.9	3344.1	2248.5	1285.0	836.2
75°	3950.5	4064.3	5356.4	8391.6	11703.2	8344.3	3940.6	1918.4	1270.2	887.8	631.2
77.5°	949.3	988.9	1675.9	3985.2	7390.7	4972.6	1785.5	948.6	812.2	627.0	460.9
80°	404.3	417.7	645.3	1472.4	3479.8	2002.5	822.8	635.5	561.9	437.5	323.0
82.5°	224.8	238.9	366.1	668.0	1404.5	682.8	501.9	442.5	369.7	263.7	209.9
85°	127.2	135.0	214.2	373.2	595.2	274.3	300.4	294.0	208.5	135.7	103.2
87.5°	60.1	65.0	103.2	173.2	233.3	107.4	152.7	168.2	130.8	82.7	53.7
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: P300371

CATALOG NUMBER: GLNA-AF-03-LED-E1-T4FT-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6	2221.6
2.5°	2220.2	2232.9	2247.8	2255.5	2262.6	2271.1	2279.6	2279.6	2281.0	2281.7
5°	2204.6	2230.8	2254.1	2264.0	2266.1	2266.1	2264.0	2252.7	2242.8	2247.0
7.5°	2172.1	2210.3	2230.1	2226.6	2199.7	2168.6	2142.4	2110.6	2094.4	2091.5
10°	2125.5	2169.3	2172.8	2137.5	2071.0	2004.6	1949.5	1895.7	1870.3	1863.9
12.5°	2073.9	2114.2	2091.5	2018.7	1912.0	1815.2	1745.2	1690.8	1666.7	1660.4
15°	2032.2	2059.7	2002.5	1888.0	1753.7	1651.2	1593.2	1552.9	1536.0	1531.0
17.5°	2010.3	2015.9	1911.3	1756.5	1613.7	1528.2	1492.1	1473.1	1466.7	1463.2
20°	2020.9	1981.3	1824.4	1634.2	1499.2	1439.1	1430.6	1425.7	1424.3	1422.2
22.5°	2073.9	1970.7	1744.5	1518.3	1398.8	1372.7	1379.8	1379.0	1377.6	1376.2
25°	2168.6	1979.9	1666.7	1408.0	1314.7	1309.1	1321.8	1321.8	1316.1	1316.1
27.5°	2293.7	1998.9	1579.8	1303.4	1238.4	1239.1	1249.0	1246.2	1239.8	1235.6
30°	2446.4	2011.0	1478.0	1209.4	1167.0	1164.2	1167.0	1155.0	1135.9	1134.5
32.5°	2602.6	1996.1	1360.0	1126.0	1091.4	1085.0	1082.9	1065.9	1044.0	1037.6
35°	2744.0	1941.7	1239.8	1059.6	1019.3	1005.1	1015.0	1009.4	989.6	984.6
37.5°	2847.2	1840.6	1131.7	1000.9	967.7	964.1	970.5	972.6	949.3	944.3
40°	2916.4	1703.5	1039.1	951.4	957.8	944.3	923.1	908.3	901.2	899.1
42.5°	2972.3	1560.7	961.3	928.1	959.9	921.0	875.1	851.0	863.8	869.4
45°	3036.6	1421.5	896.3	899.1	949.3	894.2	841.8	818.5	823.5	824.9
47.5°	3124.9	1251.8	826.3	852.5	913.9	875.8	821.4	788.1	764.8	754.2
50°	3247.2	1051.1	753.5	800.1	879.3	862.3	789.5	754.2	711.1	701.2
52.5°	3332.1	863.8	693.4	756.3	848.2	835.5	764.1	718.2	672.9	664.4
55°	3286.1	717.4	641.1	707.5	807.2	802.3	742.9	681.4	646.1	639.0
57.5°	3056.4	624.8	600.8	661.6	757.0	774.0	714.6	650.3	624.8	619.9
60°	2618.1	566.9	575.4	630.5	716.0	745.7	686.3	633.3	616.4	612.8
62.5°	2031.5	528.0	556.3	607.9	684.2	725.9	670.8	631.2	624.8	620.6
65°	1455.4	496.9	535.8	585.3	655.2	707.5	665.1	628.4	629.8	626.3
67.5°	988.9	469.3	511.0	559.8	627.0	691.3	657.4	618.5	636.2	631.9
70°	692.0	442.5	482.1	527.3	591.6	668.7	643.2	603.6	602.2	585.3
72.5°	540.0	407.1	442.5	482.1	546.4	636.9	615.0	570.4	547.1	529.4
73°	515.3	398.7	432.6	472.2	536.5	629.1	607.2	561.2	535.1	518.8
75°	426.2	361.9	393.0	428.3	494.1	592.3	569.0	519.5	486.3	476.4
77.5°	335.0	309.6	339.3	371.1	435.4	538.6	512.5	465.1	446.7	438.2
80°	248.1	256.6	282.7	311.0	377.5	481.4	458.0	410.7	492.7	472.2
82.5°	174.6	194.4	218.4	243.9	316.7	425.5	397.2	348.5	360.5	299.7
85°	103.2	127.2	149.9	171.8	228.3	352.7	328.0	277.8	227.6	217.0
87.5°	60.1	70.7	77.0	99.7	156.9	265.8	231.1	205.7	118.0	79.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)