

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: P300369

Luminaire Tested: **GLNA-AF-03-LED-E1-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300369
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K 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: 14237.7 lumens
Efficiency: N/A
Efficacy: 114.8 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

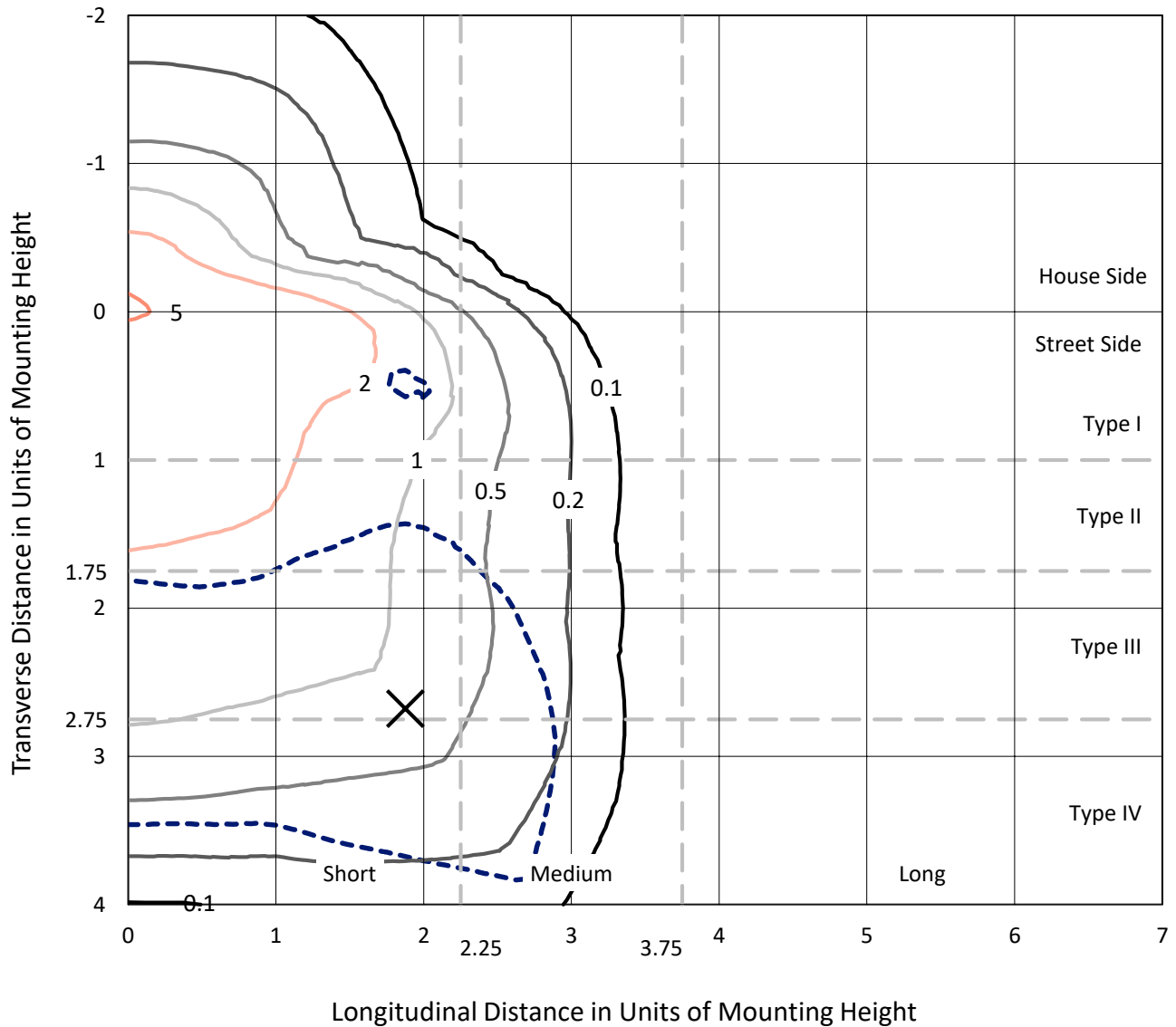
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

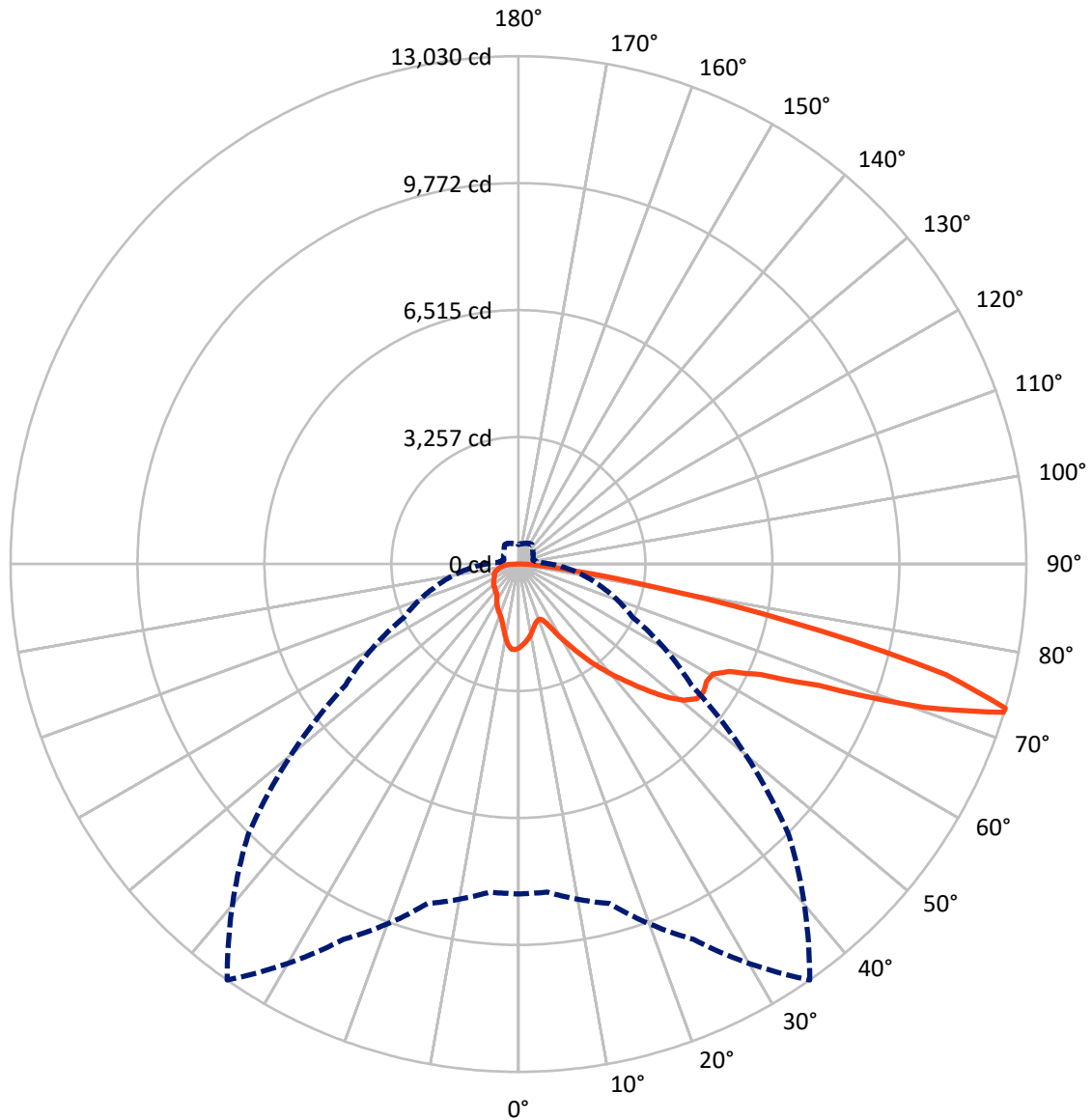
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	2715.5	0.0	2715.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	11522.2	0.0	11522.2
	% Fixture	80.9	0.0	80.9
Total	Lumens	14237.7	0.0	14237.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.5	1.4
10°-20°	485.5	3.4
20°-30°	784.9	5.5
30°-40°	1316.2	9.2
40°-50°	2028.9	14.3
50°-60°	2722.0	19.1
60°-70°	3626.3	25.5
70°-80°	2765.7	19.4
80°-90°	313.5	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°	14237.7	100.0
0°-180°	14237.7	100.0

Coefficient of Utilization



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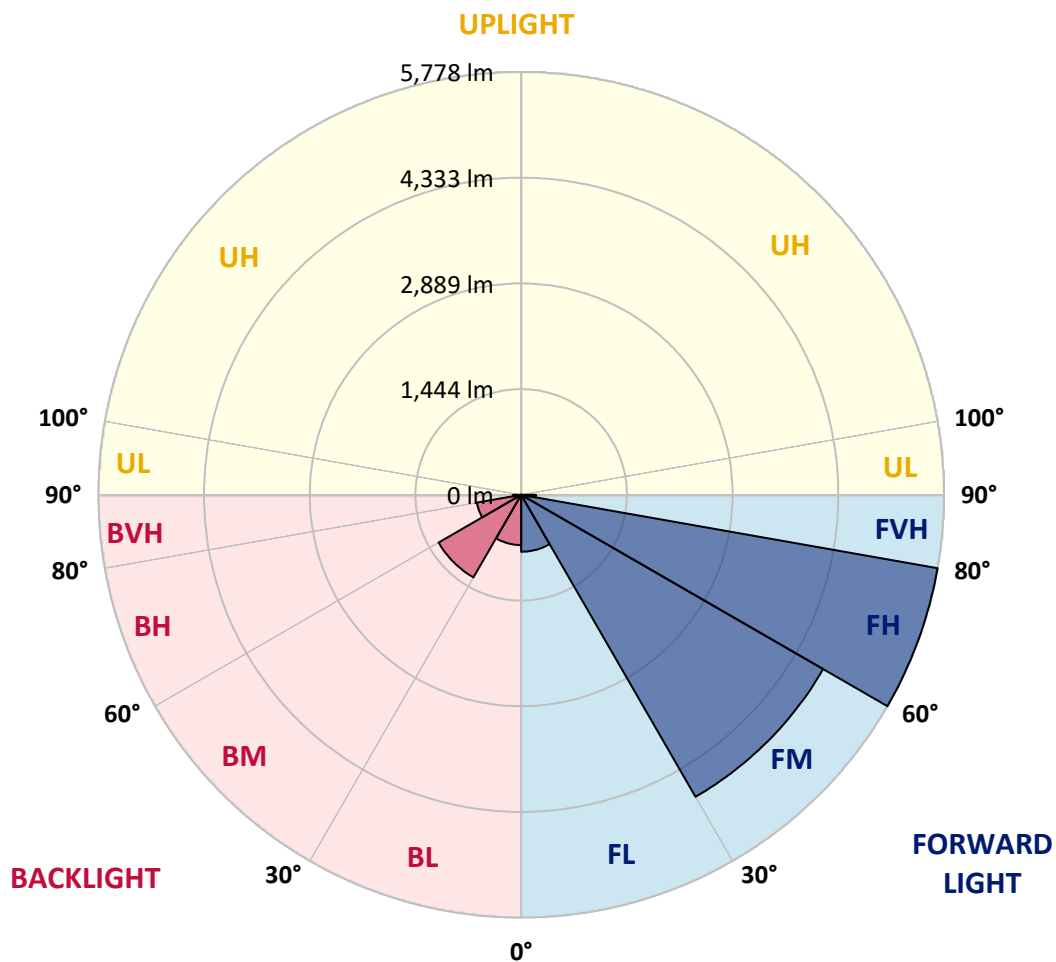
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	777.9	5.5			
FM	(30°-60°)	4764.0	33.5			
FH	(60°-80°)	5777.7	40.6			G3/7500
FVH	(80°-90°)	202.6	1.4			G2/225
BL	(0°-30°)	687.2	4.8	B2/1000		
BM	(30°-60°)	1303.1	9.2	B2/2500		
BH	(60°-80°)	614.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	110.8	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°	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9
2.5°	2064.1	2068.2	2063.4	2069.6	2079.9	2090.8	2098.3	2109.3	2121.6	2138.7	2142.8
5°	1967.0	1973.2	1973.2	1984.1	2004.0	2021.7	2038.1	2055.9	2081.9	2111.3	2122.9
7.5°	1860.4	1863.8	1870.0	1886.4	1915.1	1940.4	1963.6	1992.3	2027.9	2066.9	2087.4
10°	1731.8	1736.6	1746.2	1769.5	1808.4	1843.3	1876.8	1916.4	1961.6	2010.1	2036.1
12.5°	1640.9	1639.5	1643.6	1660.7	1694.9	1737.3	1785.9	1836.5	1891.8	1948.6	1980.0
15°	1610.1	1602.6	1586.9	1582.8	1601.3	1643.6	1699.7	1761.9	1828.2	1896.6	1935.6
17.5°	1629.3	1616.3	1573.2	1541.8	1539.0	1571.2	1630.7	1700.4	1777.0	1860.4	1908.9
20°	1749.6	1718.9	1612.9	1539.7	1514.4	1530.2	1582.1	1656.0	1746.2	1857.0	1919.2
22.5°	2037.5	1992.3	1767.4	1631.3	1545.9	1526.7	1565.7	1644.3	1749.6	1899.4	1978.7
25°	2456.6	2392.3	2032.7	1859.7	1683.3	1581.4	1590.3	1671.0	1798.2	1997.8	2093.5
27.5°	2787.5	2745.8	2379.3	2181.7	1933.5	1729.1	1670.3	1738.0	1897.3	2159.2	2256.9
30°	2984.4	2959.1	2749.9	2546.8	2252.8	1964.3	1823.5	1863.8	2052.5	2382.7	2463.4
32.5°	3212.8	3197.7	3095.2	2908.5	2597.4	2273.3	2066.2	2051.8	2260.4	2651.4	2688.4
35°	3449.3	3444.5	3384.4	3250.4	2967.3	2680.8	2388.2	2291.1	2486.7	2930.4	2907.1
37.5°	3669.5	3661.3	3626.4	3548.5	3354.3	3118.4	2716.4	2536.6	2730.8	3197.0	3093.8
40°	4074.9	4010.7	3891.0	3832.2	3745.4	3486.9	2976.9	2765.6	2983.7	3451.4	3255.2
42.5°	4569.3	4464.6	4241.8	4161.1	4148.8	3777.5	3154.7	2987.8	3238.8	3703.7	3413.8
45°	4958.3	4859.8	4667.7	4565.8	4611.0	4040.7	3333.1	3225.1	3501.3	3968.3	3577.2
47.5°	5373.3	5218.8	4964.4	4995.2	5093.7	4289.6	3515.0	3480.1	3789.1	4264.3	3780.3
50°	5388.3	5270.1	5158.6	5342.5	5495.7	4518.7	3742.6	3747.4	4141.3	4636.9	4050.3
52.5°	5075.9	5050.6	5227.7	5516.9	5737.7	4699.8	4001.8	4023.7	4591.8	5064.9	4347.0
55°	4966.5	4937.8	5142.2	5456.0	5770.5	4849.6	4282.8	4322.4	5136.7	5516.2	4636.3
57.5°	5233.1	5169.6	5183.2	5427.3	5690.5	5013.7	4589.1	4669.1	5728.8	5910.7	4822.2
60°	5978.4	5842.3	5583.9	5577.7	5733.6	5259.8	4943.2	5041.0	6344.2	6099.4	4749.8
62.5°	7023.8	6887.7	6403.7	6088.5	6065.2	5665.9	5378.1	5404.1	6699.7	5843.7	4307.4
65°	8155.3	8033.6	7492.8	7047.7	6833.0	6338.7	5883.4	5566.1	6583.5	5140.2	3533.4
67.5°	9528.9	9398.3	8933.4	8522.5	8316.0	7424.4	6238.2	5410.9	5845.7	3981.9	2540.0
70°	10489.5	10356.2	10173.0	10505.9	11011.2	8990.8	6284.0	4779.8	4366.2	2646.7	1528.8
72.5°	9236.3	9174.1	9508.4	10910.7	13015.2	9941.2	5680.3	3480.1	2535.9	1405.0	884.7
73°	8462.3	8448.6	9018.9	10627.0	13029.5	9794.9	5415.7	3234.6	2174.9	1243.0	808.8
75°	3821.3	3931.4	5181.2	8117.0	11320.2	8071.2	3811.7	1855.6	1228.6	858.7	610.6
77.5°	918.2	956.5	1621.1	3854.8	7148.9	4809.9	1727.1	917.5	785.6	606.5	445.8
80°	391.1	404.1	624.2	1424.2	3365.9	1937.0	795.8	614.7	543.6	423.2	312.5
82.5°	217.4	231.1	354.2	646.1	1358.5	660.5	485.4	428.0	357.6	255.0	203.1
85°	123.1	130.6	207.2	361.0	575.7	265.3	290.6	284.4	201.7	131.3	99.8
87.5°	58.1	62.9	99.8	167.5	225.6	103.9	147.7	162.7	126.5	80.0	52.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9	2148.9
2.5°	2147.5	2159.9	2174.2	2181.7	2188.6	2196.8	2205.0	2205.0	2206.3	2207.0
5°	2132.5	2157.8	2180.4	2189.9	2192.0	2192.0	2189.9	2179.0	2169.4	2173.5
7.5°	2101.1	2138.0	2157.1	2153.7	2127.7	2097.6	2072.3	2041.6	2025.8	2023.1
10°	2055.9	2098.3	2101.7	2067.5	2003.3	1939.0	1885.7	1833.7	1809.1	1803.0
12.5°	2006.0	2045.0	2023.1	1952.7	1849.4	1755.8	1688.1	1635.4	1612.2	1606.0
15°	1965.7	1992.3	1937.0	1826.2	1696.3	1597.2	1541.1	1502.1	1485.7	1480.9
17.5°	1944.5	1950.0	1848.8	1699.0	1560.9	1478.2	1443.3	1424.9	1418.7	1415.3
20°	1954.7	1916.4	1764.7	1580.7	1450.2	1392.0	1383.8	1379.0	1377.7	1375.6
22.5°	2006.0	1906.2	1687.4	1468.6	1353.1	1327.8	1334.6	1333.9	1332.6	1331.2
25°	2097.6	1915.1	1612.2	1362.0	1271.7	1266.2	1278.5	1278.5	1273.1	1273.1
27.5°	2218.7	1933.5	1528.1	1260.8	1197.9	1198.5	1208.1	1205.4	1199.2	1195.1
30°	2366.3	1945.2	1429.6	1169.8	1128.8	1126.1	1128.8	1117.2	1098.7	1097.4
32.5°	2517.4	1930.8	1315.5	1089.2	1055.7	1049.5	1047.4	1031.0	1009.8	1003.7
35°	2654.2	1878.2	1199.2	1024.9	985.9	972.2	981.8	976.3	957.2	952.4
37.5°	2754.0	1780.4	1094.6	968.1	936.0	932.6	938.7	940.8	918.2	913.4
40°	2821.0	1647.7	1005.1	920.3	926.4	913.4	892.9	878.6	871.7	869.7
42.5°	2875.0	1509.6	929.9	897.7	928.5	890.9	846.4	823.2	835.5	841.0
45°	2937.2	1374.9	866.9	869.7	918.2	864.9	814.3	791.7	796.5	797.9
47.5°	3022.7	1210.9	799.3	824.6	884.0	847.1	794.5	762.3	739.8	729.5
50°	3141.0	1016.7	728.8	774.0	850.5	834.1	763.7	729.5	687.8	678.2
52.5°	3223.0	835.5	670.7	731.6	820.5	808.1	739.1	694.7	650.9	642.7
55°	3178.6	694.0	620.1	684.4	780.8	776.0	718.6	659.1	624.9	618.1
57.5°	2956.4	604.4	581.2	640.0	732.3	748.7	691.2	629.0	604.4	599.6
60°	2532.5	548.3	556.5	609.9	692.6	721.3	663.9	612.6	596.2	592.8
62.5°	1965.0	510.7	538.1	588.0	661.8	702.2	648.8	610.6	604.4	600.3
65°	1407.8	480.7	518.3	566.1	633.8	684.4	643.4	607.8	609.2	605.8
67.5°	956.5	454.0	494.3	541.5	606.5	668.7	635.9	598.2	615.3	611.2
70°	669.4	428.0	466.3	510.1	572.3	646.8	622.2	583.9	582.5	566.1
72.5°	522.4	393.8	428.0	466.3	528.5	616.0	594.8	551.8	529.2	512.1
73°	498.4	385.6	418.4	456.7	518.9	608.5	587.3	542.9	517.6	501.8
75°	412.3	350.1	380.1	414.3	477.9	573.0	550.4	502.5	470.4	460.8
77.5°	324.1	299.5	328.2	358.9	421.2	521.0	495.7	449.9	432.1	423.9
80°	240.0	248.2	273.5	300.8	365.1	465.6	443.0	397.2	476.5	456.7
82.5°	168.9	188.0	211.3	235.9	306.3	411.6	384.2	337.1	348.7	289.9
85°	99.8	123.1	144.9	166.1	220.8	341.2	317.2	268.7	220.2	209.9
87.5°	58.1	68.4	74.5	96.4	151.8	257.1	223.6	199.0	114.2	77.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)