

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: P451434

Luminaire Tested: **GALN-SA2B-740-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11418 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

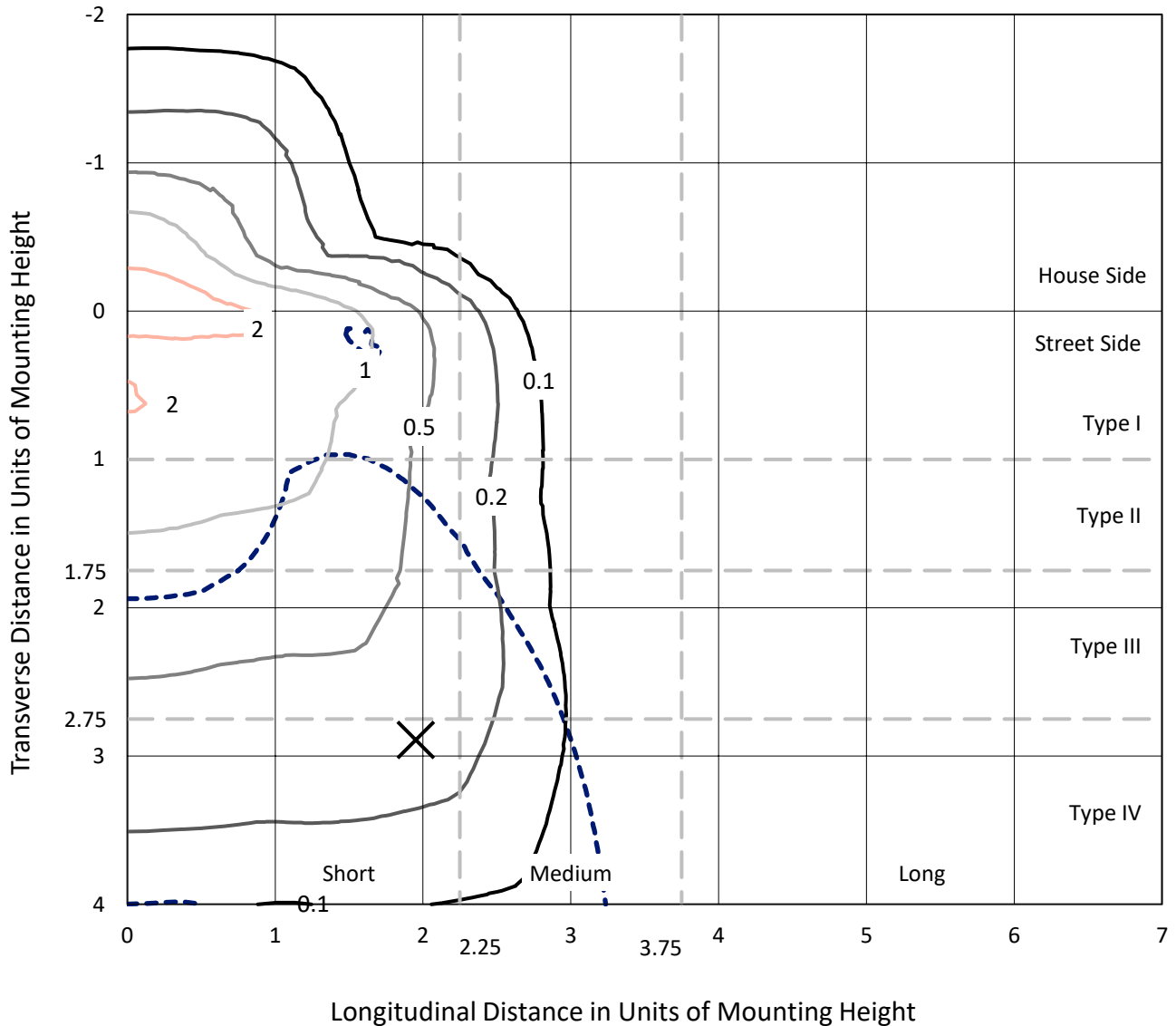
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

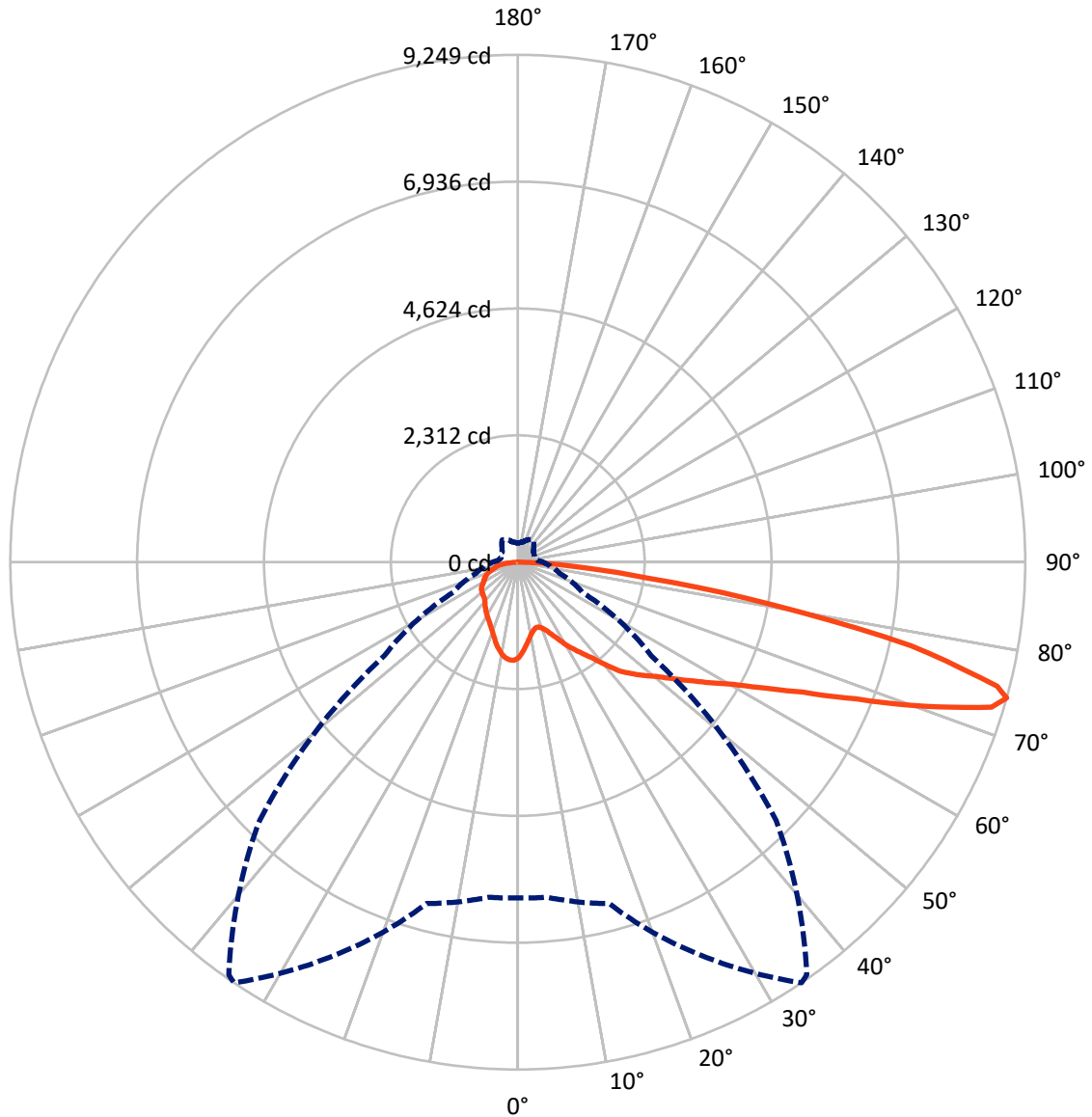
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2429.8	0.0	2429.8
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	8988.2	0.0	8988.2
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	11418.0	0.0	11418.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.4
10°-20°	434.0	3.8
20°-30°	715.6	6.3
30°-40°	1071.8	9.4
40°-50°	1558.2	13.6
50°-60°	2176.4	19.1
60°-70°	2724.7	23.9
70°-80°	2253.1	19.7
80°-90°	325.6	2.9
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°	11418.0	100.0
0°-180°	11418.0	100.0

**Coefficient of Utilization**



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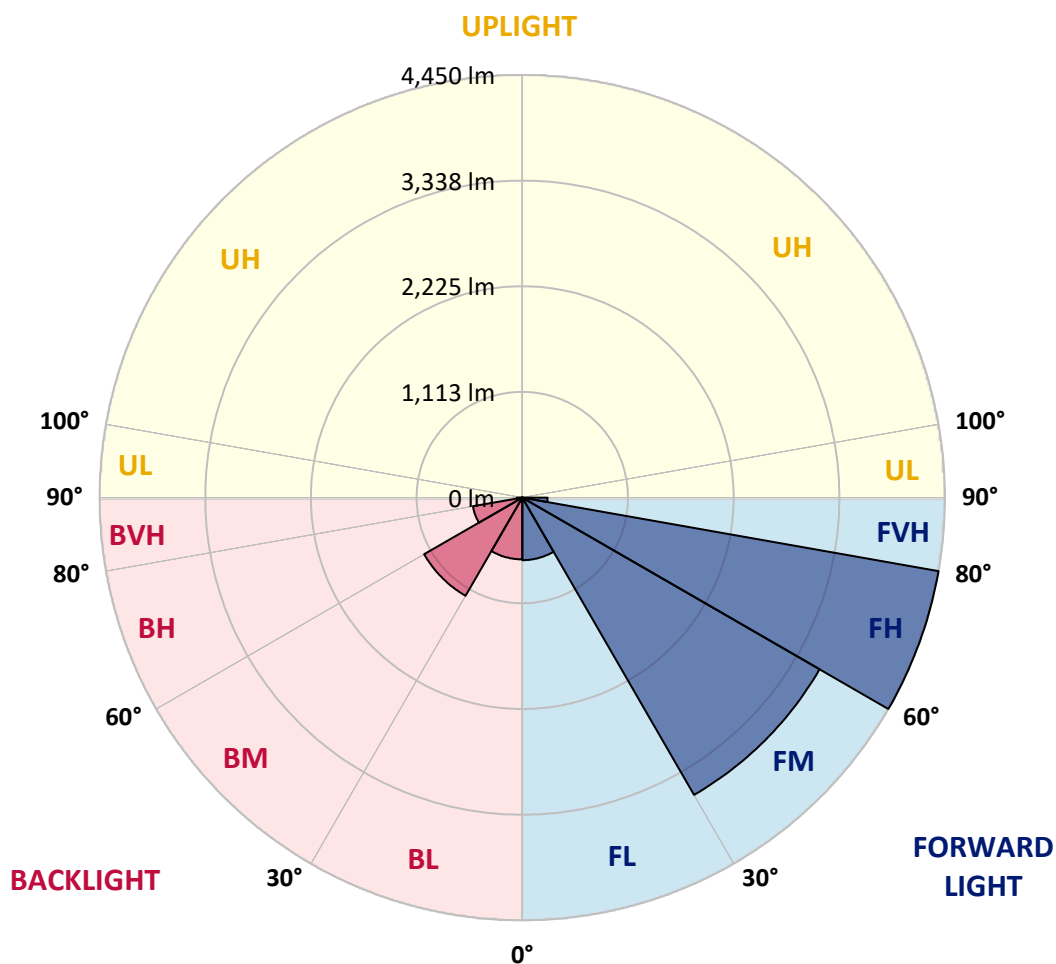
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.2	5.8			
FM (30°-60°)	3613.1	31.6			
FH (60°-80°)	4450.1	39.0			G2/5000
FVH (80°-90°)	266.7	2.3			G3/500
BL (0°-30°)	649.9	5.7	B2/1000		
BM (30°-60°)	1193.3	10.5	B2/2500		
BH (60°-80°)	527.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	58.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3
2.5°	1611.1	1619.3	1623.8	1639.6	1643.4	1648.4	1661.7	1679.4	1702.2	1722.4	1740.1
5°	1477.0	1489.7	1497.2	1511.2	1538.4	1540.9	1576.3	1616.8	1663.0	1706.0	1741.4
7.5°	1349.9	1363.8	1370.1	1395.4	1431.5	1437.1	1489.0	1552.9	1630.1	1695.2	1749.6
10°	1254.3	1261.3	1275.2	1294.2	1337.2	1341.0	1408.7	1494.1	1594.0	1690.2	1763.5
12.5°	1202.5	1206.3	1209.4	1229.7	1272.1	1277.7	1348.6	1445.4	1565.6	1694.0	1786.3
15°	1210.1	1211.3	1197.4	1201.2	1235.4	1243.6	1313.8	1413.1	1547.8	1703.5	1820.5
17.5°	1274.0	1269.5	1235.4	1217.7	1241.7	1245.5	1306.8	1400.5	1539.6	1721.2	1855.9
20°	1374.5	1368.2	1309.4	1270.2	1284.1	1287.2	1329.6	1409.9	1547.8	1750.3	1910.9
22.5°	1499.8	1497.2	1408.1	1360.6	1360.0	1360.0	1382.1	1444.1	1572.5	1790.1	1968.5
25°	1675.0	1661.7	1545.3	1484.0	1466.9	1465.6	1463.1	1500.4	1604.1	1832.5	2036.8
27.5°	1854.6	1831.9	1728.1	1633.9	1597.2	1592.8	1576.3	1580.1	1644.6	1880.6	2114.6
30°	2015.9	2001.4	1904.0	1799.6	1756.0	1745.8	1700.3	1679.4	1712.3	1967.2	2238.6
32.5°	2139.3	2130.4	2054.5	1959.6	1895.1	1893.2	1826.8	1809.7	1817.9	2072.2	2380.3
35°	2239.2	2242.4	2203.8	2121.6	2047.6	2036.8	1992.5	1971.0	1947.0	2224.0	2558.7
37.5°	2375.9	2382.8	2380.3	2309.4	2219.0	2221.5	2211.4	2176.0	2112.1	2393.6	2756.6
40°	2526.4	2531.5	2530.8	2503.6	2456.2	2458.7	2454.9	2414.4	2318.9	2609.3	2976.8
42.5°	2734.5	2710.5	2647.8	2675.0	2702.9	2714.9	2740.8	2702.2	2571.3	2839.5	3183.6
45°	2967.3	2921.7	2780.0	2792.7	2895.8	2918.6	3061.5	3008.4	2845.2	3103.9	3427.1
47.5°	3114.0	3069.1	2949.6	2947.0	3083.7	3105.8	3358.8	3339.2	3094.4	3389.2	3724.4
50°	3245.0	3238.6	3103.9	3136.2	3269.6	3302.5	3682.7	3664.4	3343.0	3725.7	4048.3
52.5°	3439.2	3387.9	3280.4	3346.8	3523.3	3566.3	4004.0	3950.3	3571.4	4023.0	4362.7
55°	3526.5	3514.4	3508.1	3565.7	3807.9	3838.9	4316.5	4193.2	3766.2	4274.8	4601.8
57.5°	3759.9	3737.7	3800.3	3839.6	4143.2	4190.6	4642.9	4446.8	3937.0	4474.6	4718.2
60°	4062.2	4050.2	4107.8	4178.6	4517.7	4589.8	5014.8	4663.1	4074.2	4575.2	4654.3
62.5°	4513.9	4512.6	4501.8	4653.7	5048.4	5114.8	5441.8	4873.8	4095.7	4499.9	4324.1
65°	5161.6	5138.8	5045.2	5210.9	5708.7	5786.6	5886.5	4991.4	3966.1	4113.5	3640.9
67.5°	5839.1	5837.8	5761.9	5976.9	6656.9	6737.3	6442.5	4965.5	3606.2	3332.3	2585.9
70°	6400.8	6373.6	6470.3	7043.4	7868.3	7961.3	6928.9	4660.0	2872.4	2200.6	1536.5
72.5°	6535.5	6536.8	6737.9	7865.7	9031.5	9046.1	7104.1	3776.9	1922.3	1213.9	768.5
74°	6120.5	6131.3	6443.1	7906.9	9248.5	9182.7	6656.3	2968.5	1299.9	792.6	554.1
75°	5586.7	5519.0	5970.0	7633.0	9023.3	8952.5	6131.9	2382.2	991.8	633.2	485.2
77.5°	2986.9	3055.8	3751.6	5696.1	7330.6	7249.0	4157.7	1142.4	535.8	440.9	349.2
80°	1063.3	1172.7	1648.4	2980.6	4699.8	4725.1	1984.3	523.7	377.0	325.1	246.7
82.5°	433.9	445.9	707.8	1322.7	2386.6	2409.4	810.3	311.2	269.5	223.9	147.4
85°	169.5	174.6	313.1	594.6	1018.4	1084.8	280.2	164.5	165.7	128.4	75.3
87.5°	56.9	64.5	128.4	198.0	346.0	339.0	81.6	48.7	59.5	55.7	23.4
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°	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3	1743.3
2.5°	1749.0	1761.0	1769.2	1778.1	1786.3	1788.8	1786.9	1792.6	1793.3	1793.9	1794.5
5°	1759.1	1775.6	1791.4	1800.2	1804.0	1800.9	1790.1	1784.4	1779.4	1775.6	1776.8
7.5°	1773.0	1796.4	1811.0	1814.8	1804.7	1790.1	1763.5	1742.7	1729.4	1720.5	1719.9
10°	1794.5	1817.3	1829.3	1818.6	1790.7	1755.3	1713.6	1674.4	1644.6	1635.8	1635.1
12.5°	1821.7	1847.7	1847.0	1815.4	1766.7	1703.5	1635.8	1590.2	1549.7	1529.5	1537.7
15°	1857.2	1876.8	1858.4	1801.5	1724.3	1637.7	1554.2	1492.2	1446.6	1425.1	1426.4
17.5°	1898.3	1915.4	1866.6	1776.8	1664.9	1553.5	1456.8	1397.9	1361.9	1346.1	1344.8
20°	1949.5	1954.6	1866.6	1733.8	1588.3	1455.5	1363.1	1322.0	1301.8	1293.6	1296.1
22.5°	2004.5	1994.4	1856.5	1673.1	1487.8	1353.0	1291.0	1272.7	1262.6	1261.3	1262.6
25°	2066.5	2038.1	1835.7	1590.9	1382.8	1264.5	1228.4	1231.6	1233.5	1233.5	1237.9
27.5°	2142.4	2085.5	1800.9	1487.1	1260.0	1182.2	1172.1	1194.3	1204.4	1206.3	1209.4
30°	2242.4	2137.4	1743.3	1357.4	1155.7	1108.2	1125.9	1155.7	1167.1	1174.0	1172.7
32.5°	2361.3	2194.3	1665.5	1227.8	1071.5	1056.4	1077.9	1108.2	1120.9	1124.7	1119.6
35°	2501.1	2258.8	1563.0	1106.3	998.2	1007.0	1032.3	1041.8	1053.2	1053.2	1055.7
37.5°	2651.6	2310.7	1437.8	995.0	941.2	973.5	991.8	983.0	977.9	971.6	974.8
40°	2804.7	2349.3	1275.2	884.9	884.3	938.7	943.8	918.5	898.2	891.9	888.7
42.5°	2938.2	2373.3	1128.5	799.5	830.5	904.5	908.3	867.9	835.6	816.6	810.3
45°	3095.7	2401.2	984.9	728.7	780.6	877.3	886.8	832.4	785.0	745.1	735.0
47.5°	3311.4	2464.4	871.7	673.7	744.5	860.3	873.5	803.3	740.7	688.8	680.6
50°	3554.9	2551.1	783.7	636.3	716.7	845.1	861.5	773.6	699.6	642.0	635.7
52.5°	3778.2	2597.9	707.8	602.8	689.5	817.3	845.7	752.1	659.1	595.2	589.5
55°	3900.3	2522.0	633.2	569.9	652.2	781.2	823.6	722.4	619.9	570.6	562.3
57.5°	3916.7	2365.1	565.5	534.5	612.9	736.9	782.5	686.3	594.6	553.5	546.5
60°	3789.6	2131.1	513.0	505.4	573.1	686.9	736.3	654.7	568.7	534.5	527.5
62.5°	3473.3	1876.8	476.3	478.8	532.6	634.4	702.1	624.3	544.0	513.6	507.3
65°	2929.3	1549.1	440.9	451.6	496.6	593.3	671.1	599.0	519.3	497.8	492.1
67.5°	2034.9	1118.3	411.8	423.2	462.4	551.6	635.1	571.8	491.5	480.1	471.2
70°	1126.6	688.2	377.6	390.9	427.0	504.8	594.6	530.7	451.0	445.9	433.3
72.5°	592.1	438.4	339.0	353.6	378.9	444.7	532.6	485.8	411.2	389.6	373.2
74°	462.4	359.3	313.1	328.3	345.4	409.3	495.9	453.5	382.7	357.4	344.7
75°	402.9	320.1	291.0	310.6	325.8	385.2	467.5	430.8	366.9	342.8	331.5
77.5°	284.6	239.7	237.8	261.2	269.5	337.8	421.3	392.2	327.0	301.7	291.0
80°	199.9	179.6	188.5	203.0	214.4	298.6	390.9	339.0	268.2	238.5	234.7
82.5°	130.3	117.7	134.7	148.0	151.8	220.1	315.6	257.4	195.5	158.8	147.4
85°	60.1	58.8	77.2	75.3	74.6	107.5	187.2	150.5	112.6	84.1	79.1
87.5°	15.2	14.5	19.0	15.8	19.0	16.4	17.1	4.4	0.6	0.0	0.0
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)