

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: P451724

Luminaire Tested: **GALN-SA2C-760-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451724  
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-SA2C-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA 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: 14107 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

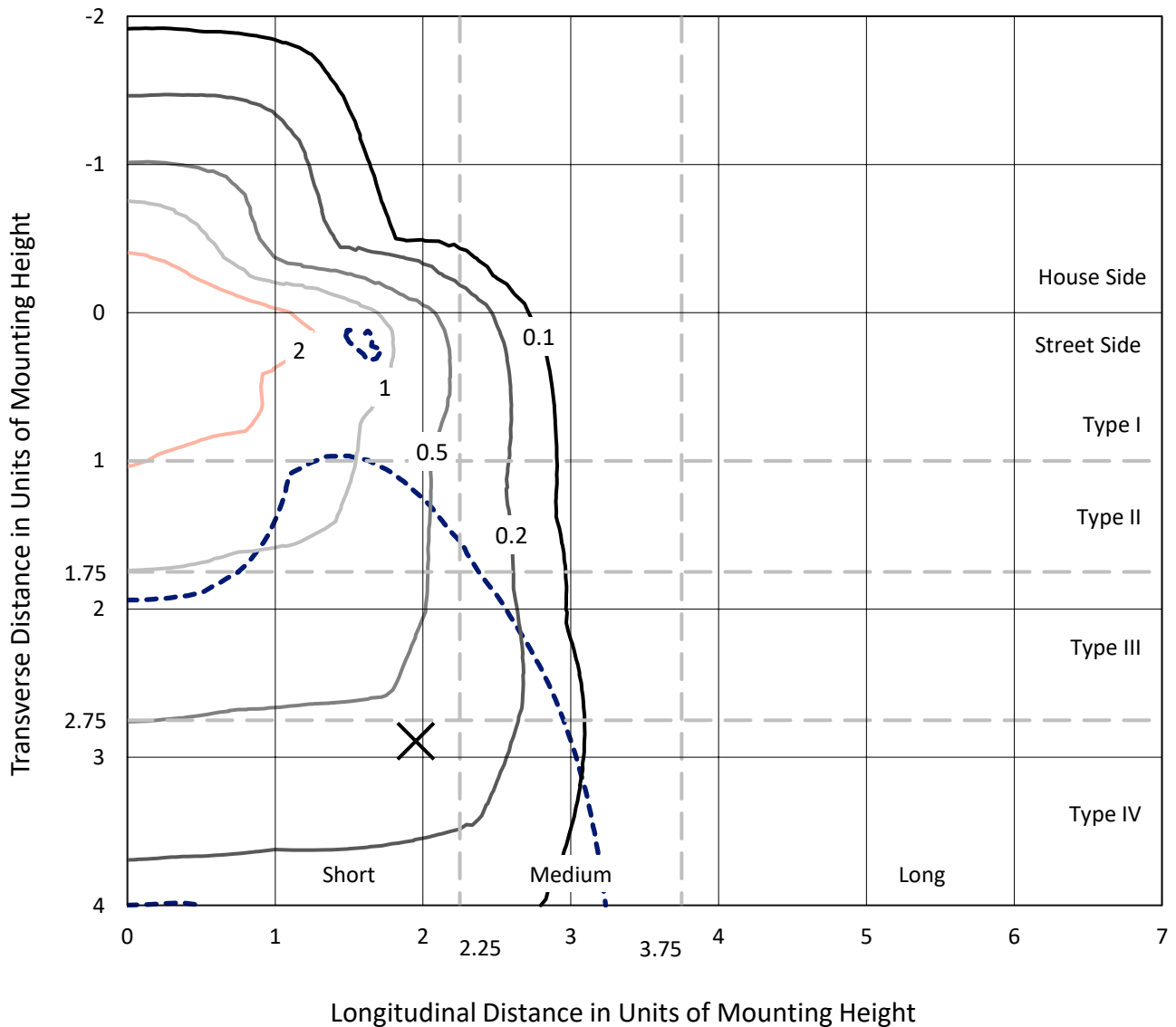
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

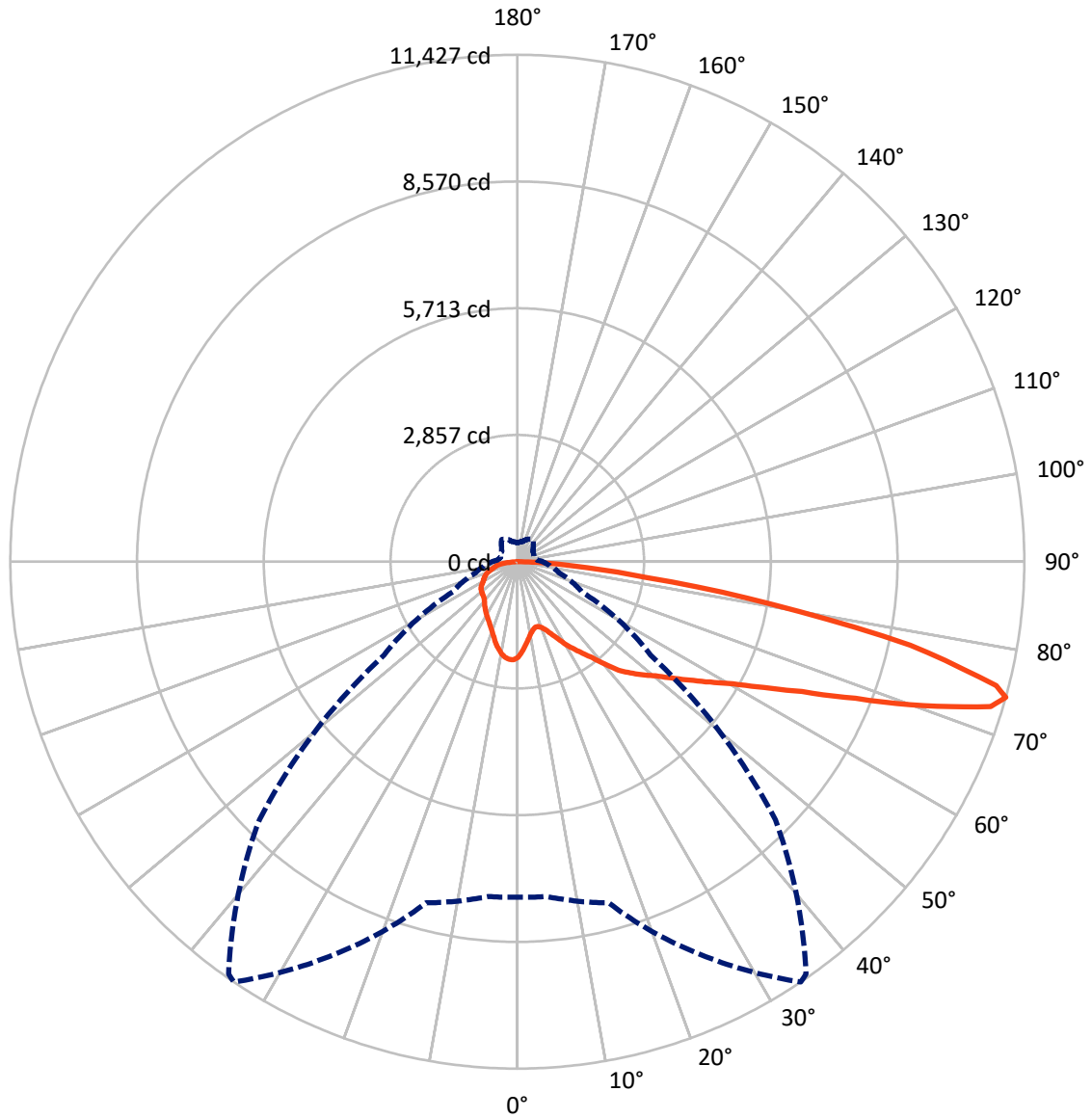
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	3002.1	0.0	3002.1
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	11104.9	0.0	11104.9
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	14107.0	0.0	14107.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.9	1.4
10°-20°	536.2	3.8
20°-30°	884.1	6.3
30°-40°	1324.3	9.4
40°-50°	1925.1	13.6
50°-60°	2689.0	19.1
60°-70°	3366.4	23.9
70°-80°	2783.8	19.7
80°-90°	402.2	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°	14107.0	100.0
0°-180°	14107.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451724

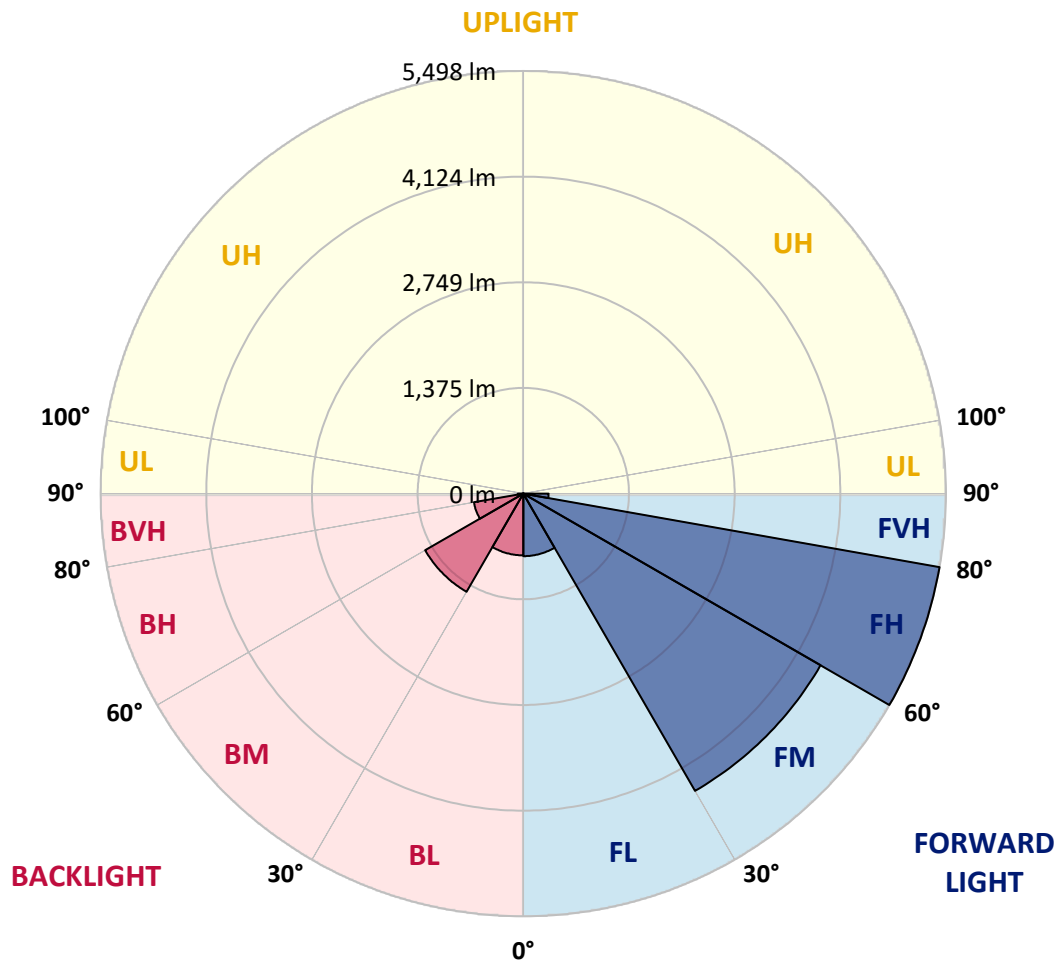
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.2	5.8			
FM (30°-60°)	4464.0	31.6			
FH (60°-80°)	5498.2	39.0			G3/7500
FVH (80°-90°)	329.5	2.3			G3/500
BL (0°-30°)	803.0	5.7	B2/1000		
BM (30°-60°)	1474.3	10.5	B2/2500		
BH (60°-80°)	652.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	72.7	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°	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	1990.5	2000.7	2006.2	2025.7	2030.4	2036.6	2053.0	2074.9	2103.1	2128.1	2150.0
5°	1824.8	1840.5	1849.8	1867.0	1900.6	1903.8	1947.5	1997.6	2054.6	2107.8	2151.5
7.5°	1667.8	1684.9	1692.8	1724.0	1768.6	1775.6	1839.7	1918.6	2014.0	2094.5	2161.7
10°	1549.7	1558.3	1575.5	1599.0	1652.1	1656.8	1740.4	1845.9	1969.4	2088.2	2178.9
12.5°	1485.7	1490.4	1494.3	1519.3	1571.6	1578.7	1666.2	1785.8	1934.3	2092.9	2207.0
15°	1495.0	1496.6	1479.4	1484.1	1526.3	1536.5	1623.2	1745.9	1912.4	2104.6	2249.2
17.5°	1574.0	1568.5	1526.3	1504.4	1534.1	1538.8	1614.6	1730.3	1902.2	2126.5	2293.0
20°	1698.2	1690.4	1617.7	1569.3	1586.5	1590.4	1642.7	1742.0	1912.4	2162.5	2361.0
22.5°	1853.0	1849.8	1739.7	1681.0	1680.3	1680.3	1707.6	1784.2	1942.9	2211.7	2432.1
25°	2069.5	2053.0	1909.2	1833.4	1812.3	1810.8	1807.6	1853.8	1981.9	2264.1	2516.5
27.5°	2291.4	2263.3	2135.1	2018.7	1973.3	1967.9	1947.5	1952.2	2031.9	2323.4	2612.6
30°	2490.7	2472.7	2352.4	2223.4	2169.5	2157.0	2100.7	2074.9	2115.6	2430.5	2765.8
32.5°	2643.1	2632.1	2538.4	2421.1	2341.4	2339.1	2257.0	2235.9	2246.1	2560.2	2940.8
35°	2766.6	2770.5	2722.8	2621.2	2529.8	2516.5	2461.8	2435.2	2405.5	2747.8	3161.2
37.5°	2935.4	2944.0	2940.8	2853.3	2741.6	2744.7	2732.2	2688.4	2609.5	2957.3	3405.8
40°	3121.4	3127.6	3126.8	3093.2	3034.6	3037.8	3033.1	2983.0	2865.0	3223.8	3677.8
42.5°	3378.5	3348.8	3271.4	3305.0	3339.4	3354.3	3386.3	3338.6	3176.9	3508.2	3933.4
45°	3666.1	3609.8	3434.8	3450.4	3577.8	3605.9	3782.5	3716.9	3515.3	3834.9	4234.3
47.5°	3847.4	3791.9	3644.2	3641.1	3809.9	3837.2	4149.9	4125.6	3823.2	4187.4	4601.6
50°	4009.2	4001.4	3834.9	3874.8	4039.7	4080.3	4550.0	4527.3	4130.3	4603.1	5001.7
52.5°	4249.1	4185.8	4052.9	4135.0	4353.0	4406.2	4947.0	4880.6	4412.4	4970.4	5390.1
55°	4357.0	4342.1	4334.3	4405.4	4704.7	4743.0	5333.1	5180.7	4653.2	5281.5	5685.5
57.5°	4645.3	4618.0	4695.4	4743.8	5118.9	5177.5	5736.3	5494.1	4864.2	5528.4	5829.3
60°	5018.9	5004.1	5075.2	5162.7	5581.6	5670.7	6195.9	5761.3	5033.7	5652.7	5750.4
62.5°	5576.9	5575.3	5562.1	5749.6	6237.3	6319.3	6723.4	6021.6	5060.3	5559.7	5342.4
65°	6377.2	6349.0	6233.4	6438.1	7053.2	7149.3	7272.8	6166.9	4900.1	5082.2	4498.4
67.5°	7214.2	7212.6	7118.8	7384.6	8224.7	8323.9	7959.7	6134.9	4455.4	4117.0	3194.8
70°	7908.2	7874.6	7994.1	8702.2	9721.3	9836.2	8560.7	5757.4	3548.9	2718.9	1898.3
72.5°	8074.6	8076.2	8324.7	9718.2	11158.5	11176.5	8777.2	4666.4	2375.0	1499.7	949.5
74°	7562.0	7575.2	7960.5	9769.0	11426.6	11345.3	8223.9	3667.7	1606.0	979.2	684.6
75°	6902.4	6818.7	7376.0	9430.6	11148.3	11060.8	7576.0	2943.2	1225.4	782.3	599.4
77.5°	3690.3	3775.5	4635.2	7037.6	9057.0	8956.2	5136.9	1411.4	661.9	544.7	431.4
80°	1313.7	1448.9	2036.6	3682.5	5806.7	5837.9	2451.6	647.1	465.8	401.7	304.8
82.5°	536.1	551.0	874.5	1634.2	2948.7	2976.8	1001.1	384.5	332.9	276.7	182.1
85°	209.4	215.7	386.9	734.6	1258.2	1340.3	346.2	203.2	204.8	158.6	93.0
87.5°	70.3	79.7	158.6	244.6	427.5	418.9	100.8	60.2	73.5	68.8	28.9
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°	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2160.9	2175.7	2185.9	2196.8	2207.0	2210.1	2207.8	2214.8	2215.6	2216.4	2217.2
5°	2173.4	2193.7	2213.3	2224.2	2228.9	2225.0	2211.7	2204.7	2198.4	2193.7	2195.3
7.5°	2190.6	2219.5	2237.5	2242.2	2229.7	2211.7	2178.9	2153.1	2136.7	2125.7	2124.9
10°	2217.2	2245.3	2260.1	2246.9	2212.5	2168.7	2117.1	2068.7	2031.9	2021.0	2020.2
12.5°	2250.8	2282.8	2282.0	2243.0	2182.8	2104.6	2021.0	1964.7	1914.7	1889.7	1899.9
15°	2294.5	2318.8	2296.1	2225.8	2130.4	2023.3	1920.2	1843.6	1787.3	1760.8	1762.3
17.5°	2345.3	2366.4	2306.3	2195.3	2057.0	1919.4	1799.8	1727.2	1682.6	1663.1	1661.5
20°	2408.6	2414.9	2306.3	2142.1	1962.4	1798.3	1684.2	1633.4	1608.4	1598.2	1601.3
22.5°	2476.6	2464.1	2293.8	2067.1	1838.1	1671.7	1595.1	1572.4	1559.9	1558.3	1559.9
25°	2553.2	2518.0	2268.0	1965.5	1708.4	1562.3	1517.7	1521.6	1524.0	1524.0	1529.4
27.5°	2647.0	2576.7	2225.0	1837.3	1556.8	1460.7	1448.2	1475.5	1488.0	1490.4	1494.3
30°	2770.5	2640.7	2153.9	1677.1	1427.8	1369.2	1391.1	1427.8	1441.9	1450.5	1448.9
32.5°	2917.4	2711.1	2057.7	1516.9	1323.9	1305.1	1331.7	1369.2	1384.8	1389.5	1383.3
35°	3090.1	2790.8	1931.1	1366.9	1233.2	1244.2	1275.4	1287.2	1301.2	1301.2	1304.4
37.5°	3276.1	2854.9	1776.4	1229.3	1162.9	1202.8	1225.4	1214.5	1208.2	1200.4	1204.3
40°	3465.2	2902.6	1575.5	1093.3	1092.6	1159.8	1166.0	1134.8	1109.8	1101.9	1098.0
42.5°	3630.1	2932.3	1394.2	987.8	1026.1	1117.6	1122.3	1072.2	1032.4	1008.9	1001.1
45°	3824.7	2966.6	1216.8	900.3	964.4	1084.0	1095.7	1028.5	969.9	920.6	908.1
47.5°	4091.2	3044.8	1076.9	832.3	919.8	1062.9	1079.3	992.5	915.2	851.1	840.9
50°	4392.1	3151.9	968.3	786.2	885.5	1044.1	1064.4	955.8	864.4	793.2	785.4
52.5°	4668.0	3209.7	874.5	744.8	851.9	1009.7	1044.9	929.2	814.3	735.4	728.4
55°	4818.8	3115.9	782.3	704.1	805.7	965.2	1017.5	892.5	765.9	704.9	694.8
57.5°	4839.2	2922.1	698.7	660.4	757.3	910.5	966.7	847.9	734.6	683.8	675.2
60°	4682.1	2632.9	633.8	624.4	708.1	848.7	909.7	808.9	702.6	660.4	651.8
62.5°	4291.3	2318.8	588.5	591.6	658.0	783.9	867.5	771.4	672.1	634.6	626.8
65°	3619.2	1913.9	544.7	558.0	613.5	733.1	829.2	740.1	641.6	615.1	608.0
67.5°	2514.1	1381.7	508.8	522.8	571.3	681.5	784.6	706.5	607.2	593.2	582.2
70°	1391.9	850.3	466.6	483.0	527.5	623.7	734.6	655.7	557.2	551.0	535.3
72.5°	731.5	541.6	418.9	436.9	468.1	549.4	658.0	600.2	508.0	481.4	461.1
74°	571.3	443.9	386.9	405.6	426.7	505.6	612.7	560.3	472.8	441.6	425.9
75°	497.8	395.4	359.5	383.7	402.5	475.9	577.5	532.2	453.3	423.6	409.5
77.5°	351.7	296.2	293.9	322.8	332.9	417.3	520.5	484.5	404.0	372.8	359.5
80°	247.0	222.0	232.9	250.9	264.9	368.9	483.0	418.9	331.4	294.6	289.9
82.5°	161.0	145.4	166.5	182.9	187.6	272.0	390.0	318.1	241.5	196.2	182.1
85°	74.2	72.7	95.3	93.0	92.2	132.9	231.3	186.0	139.1	103.9	97.7
87.5°	18.8	18.0	23.4	19.5	23.4	20.3	21.1	5.5	0.8	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)