

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: P453050

Luminaire Tested: **GALN-SA4A-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18194.1 lumens  
Efficiency: N/A  
Efficacy: 150.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

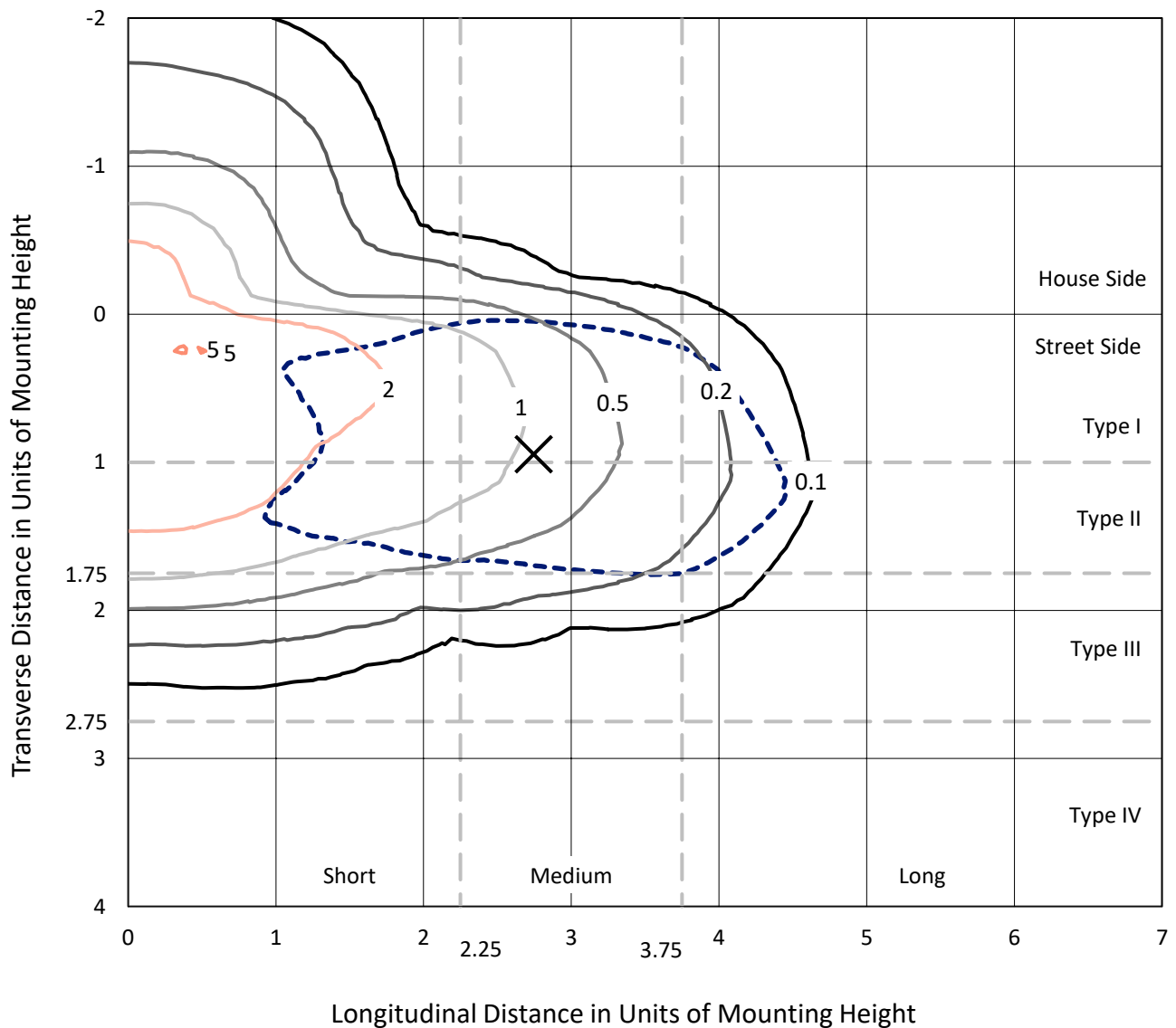
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

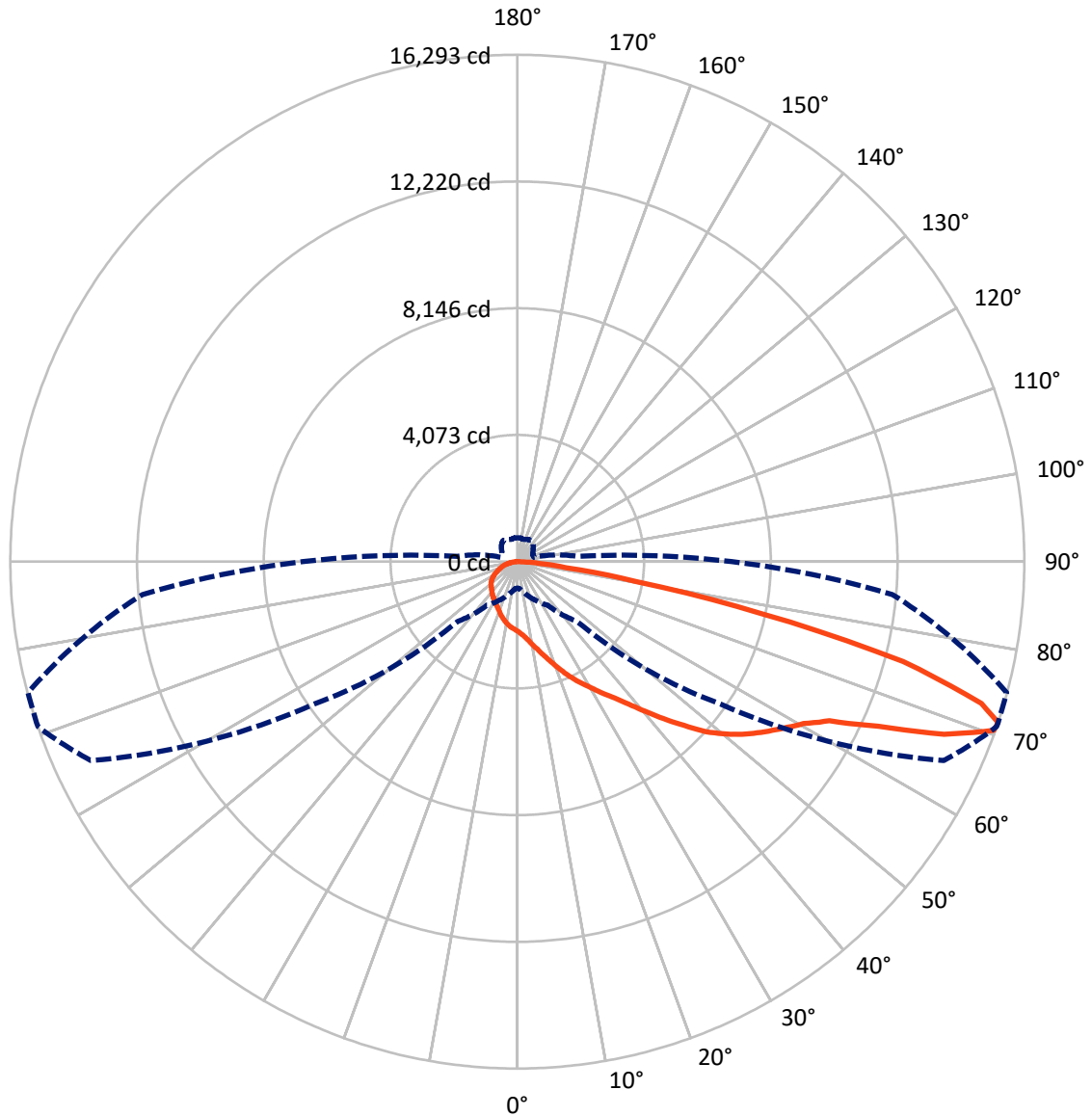
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3272.2	0.0	3272.2
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	14921.9	0.0	14921.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	18194.1	0.0	18194.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.2	1.2
10°-20°	728.4	4.0
20°-30°	1273.0	7.0
30°-40°	1893.4	10.4
40°-50°	2789.7	15.3
50°-60°	3905.6	21.5
60°-70°	4368.3	24.0
70°-80°	2668.3	14.7
80°-90°	343.3	1.9
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°	18194.1	100.0
0°-180°	18194.1	100.0

**Coefficient of Utilization**



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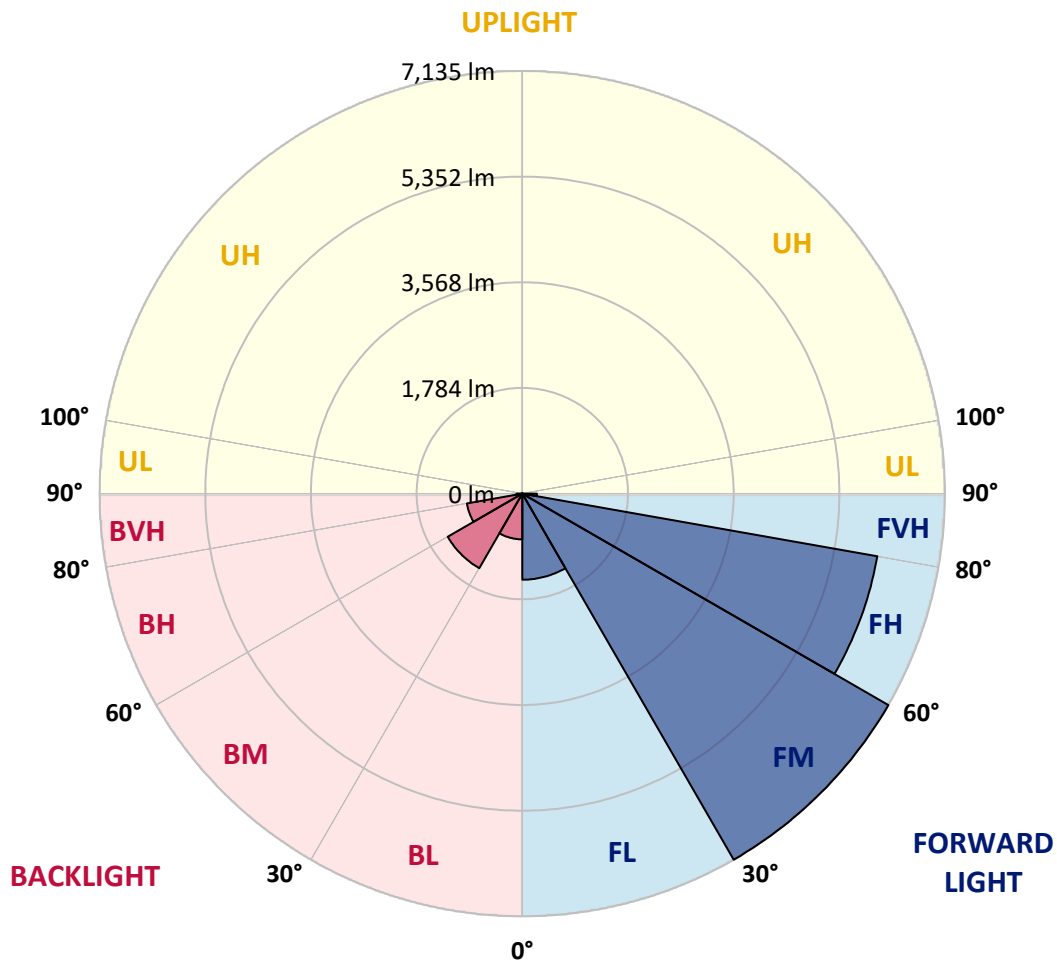
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1453.7	8.0			
FM (30°-60°)	7135.3	39.2			
FH (60°-80°)	6085.8	33.4			G3/7500
FVH (80°-90°)	247.0	1.4			G3/500
BL (0°-30°)	771.9	4.2	B2/1000		
BM (30°-60°)	1453.3	8.0	B2/2500		
BH (60°-80°)	950.7	5.2	B2/1000		G2/1000
BVH (80°-90°)	96.3	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0
2.5°	2478.9	2466.9	2467.9	2451.0	2429.0	2405.0	2371.0	2341.0	2317.0	2303.0	2262.0
5°	2746.9	2734.9	2719.9	2682.9	2666.9	2607.9	2532.9	2464.9	2413.0	2384.0	2302.0
7.5°	2963.9	2960.9	2956.9	2935.9	2894.9	2812.9	2748.9	2630.9	2553.9	2498.9	2359.0
10°	3097.9	3102.9	3105.9	3109.9	3092.9	3049.9	2961.9	2812.9	2714.9	2644.9	2433.0
12.5°	3165.9	3170.9	3187.9	3224.9	3247.9	3242.9	3170.9	3024.9	2889.9	2797.9	2511.9
15°	3207.9	3215.9	3245.9	3294.9	3371.9	3420.9	3385.9	3250.9	3102.9	2993.9	2605.9
17.5°	3253.9	3262.9	3295.9	3365.9	3466.9	3572.9	3610.9	3494.9	3333.9	3203.9	2710.9
20°	3279.9	3291.9	3338.9	3430.9	3548.9	3702.9	3828.9	3767.9	3591.9	3447.9	2831.9
22.5°	3321.9	3331.9	3371.9	3469.9	3610.9	3803.9	4046.9	4033.9	3878.9	3692.9	2964.9
25°	3435.9	3451.9	3471.9	3530.9	3666.9	3906.9	4227.9	4317.9	4156.9	3948.9	3086.9
27.5°	3650.9	3663.9	3662.9	3670.9	3747.9	3995.9	4384.9	4598.9	4432.9	4207.9	3204.9
30°	3895.9	3900.9	3904.9	3886.9	3903.9	4086.9	4528.9	4876.9	4710.9	4473.9	3307.9
32.5°	4193.9	4203.9	4169.9	4123.9	4109.9	4221.9	4647.9	5154.9	5039.9	4743.9	3409.9
35°	4545.9	4571.9	4502.9	4421.9	4364.9	4415.9	4807.9	5438.9	5376.9	5088.9	3544.9
37.5°	4947.9	4979.9	4915.9	4756.9	4675.9	4689.9	5016.9	5789.9	5802.9	5481.9	3745.9
40°	5276.9	5318.9	5320.9	5095.9	4972.9	4988.9	5281.9	6167.9	6316.9	5967.9	3982.9
42.5°	5493.9	5534.9	5577.9	5445.9	5316.9	5407.9	5590.9	6577.9	6894.9	6557.9	4313.9
45°	5731.9	5768.9	5792.9	5732.9	5660.9	5896.9	5963.9	7013.9	7510.8	7216.9	4675.9
47.5°	6007.9	6048.9	6071.9	6014.9	5987.9	6325.9	6365.9	7420.8	8168.8	7856.8	5075.9
50°	6375.9	6406.9	6394.9	6358.9	6352.9	6654.9	6751.9	7801.8	8711.8	8545.8	5490.9
52.5°	6833.9	6870.9	6883.9	6832.9	6809.9	6889.9	7062.9	8148.8	9205.8	9137.8	5933.9
55°	7110.9	7169.9	7367.9	7447.8	7502.8	7193.9	7397.8	8531.8	9648.8	9761.8	6409.9
57.5°	6755.9	6831.9	7274.9	7674.8	8191.8	7953.8	7872.8	8931.8	10091.8	10366.8	6979.9
60°	5889.9	5906.9	6477.9	7214.9	8254.8	8930.8	8863.8	9567.8	10571.8	10976.8	7730.8
62.5°	4085.9	4121.9	4796.9	5972.9	7476.8	9282.8	10549.8	10665.8	11259.8	11889.8	8831.8
65°	2107.0	2060.0	2674.9	3753.9	5636.9	8446.8	11915.8	12684.7	12751.7	13317.7	10381.8
67.5°	1297.0	1318.0	1606.0	2192.0	3332.9	6138.9	11772.8	15151.7	14798.7	15070.7	11820.8
70°	974.0	1000.0	1198.0	1500.0	2032.0	3509.9	9467.8	15749.7	16242.7	16172.7	12258.8
71°	847.0	874.0	1080.0	1365.0	1707.0	2708.9	7976.8	15123.7	16292.7	16280.7	12093.8
72.5°	722.0	739.0	900.0	1156.0	1439.0	1899.0	5992.9	13563.7	15597.7	15996.7	11504.8
75°	567.0	580.0	652.0	882.0	1133.0	1166.0	3215.9	10168.8	12810.7	13570.7	9577.8
77.5°	462.0	471.0	508.0	655.0	874.0	826.0	1687.0	6618.9	8025.8	8790.8	5641.9
80°	367.0	377.0	399.0	444.0	655.0	589.0	805.0	3353.9	3876.9	3868.9	2252.0
82.5°	285.0	288.0	314.0	326.0	448.0	418.0	436.0	1420.0	1573.0	1625.0	813.0
85°	180.0	189.0	278.0	250.0	268.0	245.0	215.0	564.0	695.0	685.0	325.0
87.5°	55.0	58.0	94.0	106.0	119.0	107.0	79.0	166.0	203.0	220.0	81.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0	2233.0
2.5°	2246.0	2235.0	2196.0	2164.0	2134.0	2101.0	2073.0	2065.0	2058.0	2055.0	2054.0
5°	2267.0	2234.0	2157.0	2094.0	2044.0	1998.0	1969.0	1956.0	1943.0	1943.0	1947.0
7.5°	2297.0	2237.0	2118.0	2024.0	1961.0	1918.0	1897.0	1895.0	1898.0	1901.0	1902.0
10°	2330.0	2235.0	2061.0	1944.0	1888.0	1868.0	1869.0	1886.0	1902.0	1914.0	1916.0
12.5°	2362.0	2223.0	1994.0	1869.0	1833.0	1837.0	1865.0	1903.0	1934.0	1951.0	1952.0
15°	2398.0	2204.0	1913.0	1798.0	1786.0	1817.0	1869.0	1927.0	1974.0	2002.0	2005.0
17.5°	2428.0	2172.0	1828.0	1729.0	1744.0	1801.0	1873.0	1948.0	2005.0	2040.0	2046.0
20°	2461.9	2131.0	1740.0	1663.0	1706.0	1783.0	1865.0	1946.0	2005.0	2039.0	2047.0
22.5°	2488.9	2073.0	1656.0	1609.0	1672.0	1761.0	1838.0	1903.0	1951.0	1969.0	1981.0
25°	2499.9	2000.0	1577.0	1565.0	1645.0	1725.0	1777.0	1814.0	1829.0	1827.0	1832.0
27.5°	2493.9	1916.0	1509.0	1530.0	1611.0	1669.0	1695.0	1692.0	1665.0	1640.0	1652.0
30°	2468.9	1816.0	1452.0	1494.0	1567.0	1599.0	1595.0	1556.0	1505.0	1458.0	1461.0
32.5°	2424.0	1708.0	1399.0	1453.0	1505.0	1519.0	1492.0	1441.0	1368.0	1307.0	1298.0
35°	2386.0	1605.0	1352.0	1406.0	1443.0	1436.0	1410.0	1344.0	1278.0	1224.0	1215.0
37.5°	2380.0	1517.0	1307.0	1353.0	1374.0	1364.0	1332.0	1276.0	1252.0	1211.0	1206.0
40°	2412.0	1455.0	1261.0	1297.0	1307.0	1299.0	1264.0	1232.0	1254.0	1244.0	1244.0
42.5°	2498.9	1422.0	1220.0	1241.0	1249.0	1255.0	1230.0	1203.0	1230.0	1184.0	1169.0
45°	2636.9	1423.0	1183.0	1186.0	1210.0	1231.0	1214.0	1174.0	1160.0	1068.0	1050.0
47.5°	2839.9	1457.0	1153.0	1134.0	1177.0	1212.0	1188.0	1130.0	1068.0	1007.0	996.0
50°	3076.9	1518.0	1126.0	1080.0	1133.0	1188.0	1170.0	1102.0	1038.0	1001.0	994.0
52.5°	3339.9	1595.0	1093.0	1020.0	1079.0	1177.0	1174.0	1098.0	1010.0	985.0	979.0
55°	3664.9	1671.0	1052.0	950.0	1031.0	1168.0	1163.0	1065.0	1004.0	986.0	984.0
57.5°	4042.9	1781.0	993.0	879.0	976.0	1131.0	1120.0	1045.0	984.0	971.0	970.0
60°	4651.9	1952.0	909.0	814.0	920.0	1066.0	1080.0	1011.0	952.0	949.0	948.0
62.5°	5452.9	2192.0	822.0	747.0	855.0	982.0	1022.0	965.0	918.0	933.0	935.0
65°	6558.9	2394.0	732.0	690.0	783.0	901.0	967.0	922.0	880.0	909.0	909.0
67.5°	7279.9	2398.0	650.0	631.0	710.0	833.0	909.0	871.0	831.0	880.0	882.0
70°	7129.9	2101.0	582.0	569.0	639.0	760.0	845.0	815.0	769.0	813.0	797.0
71°	6887.9	1936.0	555.0	545.0	611.0	725.0	815.0	790.0	744.0	773.0	764.0
72.5°	6501.9	1681.0	511.0	513.0	569.0	681.0	773.0	747.0	701.0	717.0	714.0
75°	5495.9	1468.0	437.0	446.0	489.0	606.0	689.0	669.0	622.0	622.0	619.0
77.5°	3435.9	1026.0	363.0	368.0	415.0	519.0	592.0	575.0	530.0	515.0	511.0
80°	1282.0	530.0	284.0	290.0	319.0	409.0	490.0	474.0	428.0	411.0	395.0
82.5°	485.0	266.0	209.0	204.0	235.0	312.0	384.0	365.0	329.0	288.0	276.0
85°	183.0	132.0	128.0	124.0	138.0	185.0	238.0	234.0	196.0	167.0	164.0
87.5°	48.0	43.0	50.0	37.0	39.0	35.0	36.0	15.0	7.0	3.0	2.0
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)