

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: P453949

Luminaire Tested: **GALN-SA5A-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453949  
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-SA5A-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20976 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

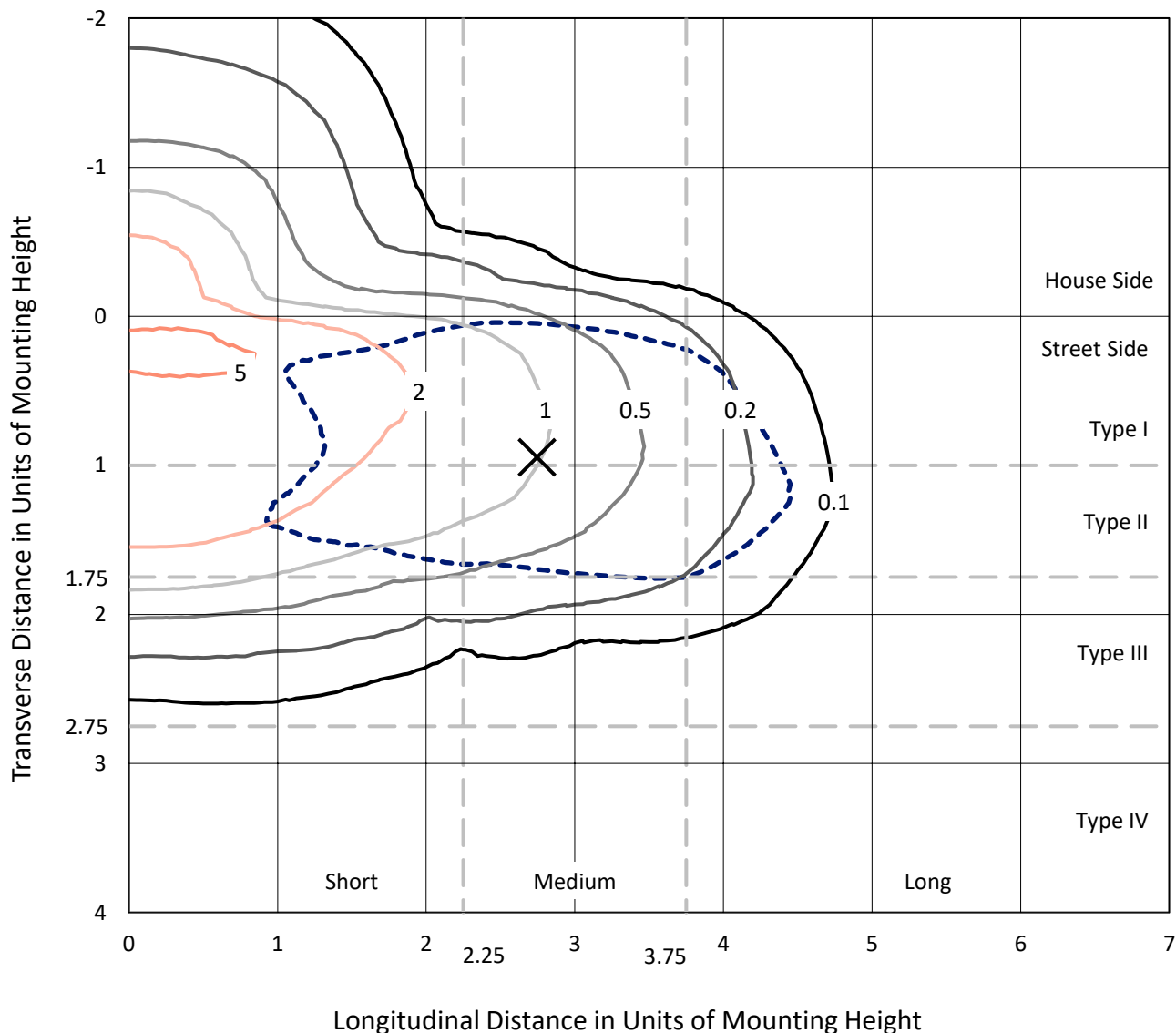
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

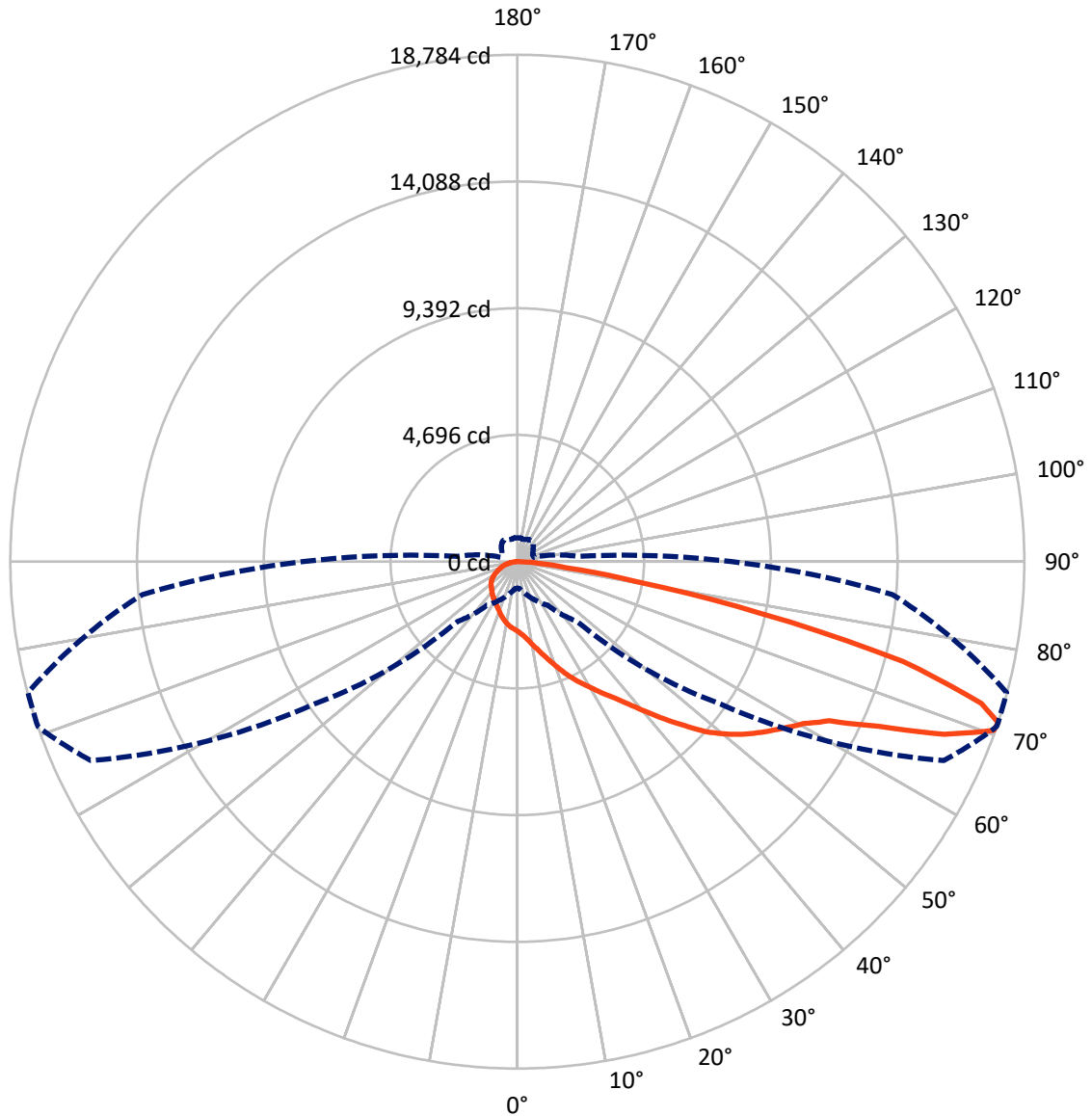
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3772.5	0.0	3772.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	17203.5	0.0	17203.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	20976.0	0.0	20976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.5	1.2
10°-20°	839.8	4.0
20°-30°	1467.6	7.0
30°-40°	2182.9	10.4
40°-50°	3216.2	15.3
50°-60°	4502.8	21.5
60°-70°	5036.2	24.0
70°-80°	3076.3	14.7
80°-90°	395.7	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°	20976.0	100.0
0°-180°	20976.0	100.0

**Coefficient of Utilization**



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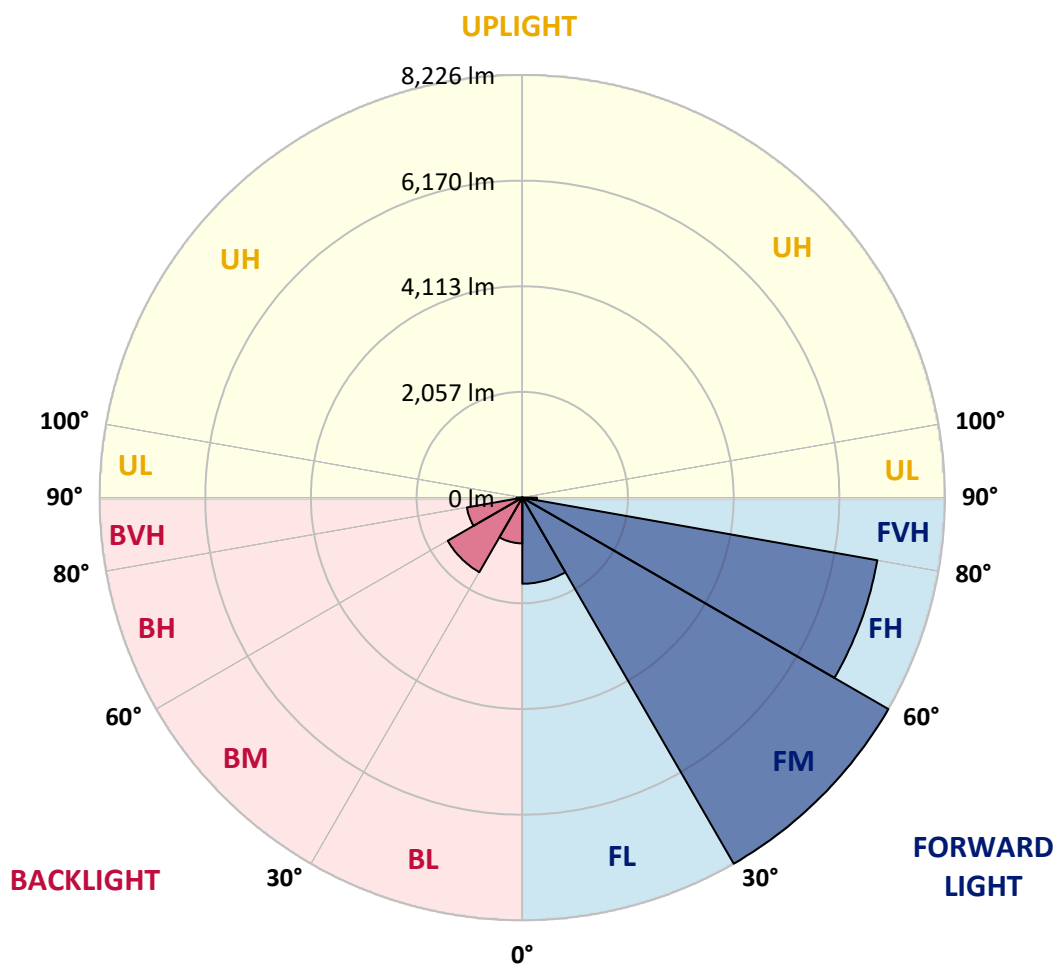
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1676.0	8.0			
FM (30°-60°)	8226.4	39.2			
FH (60°-80°)	7016.4	33.4			G3/7500
FVH (80°-90°)	284.7	1.4			G3/500
BL (0°-30°)	889.9	4.2	B2/1000		
BM (30°-60°)	1675.5	8.0	B2/2500		
BH (60°-80°)	1096.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	111.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4
2.5°	2858.0	2844.2	2845.3	2825.7	2800.4	2772.7	2733.5	2698.9	2671.2	2655.1	2607.8
5°	3167.0	3153.1	3135.8	3093.2	3074.7	3006.7	2920.3	2841.9	2781.9	2748.5	2653.9
7.5°	3417.1	3413.7	3409.1	3384.9	3337.6	3243.1	3169.3	3033.2	2944.5	2881.1	2719.7
10°	3571.6	3577.4	3580.9	3585.5	3565.9	3516.3	3414.8	3243.1	3130.1	3049.4	2805.0
12.5°	3650.0	3655.8	3675.4	3718.1	3744.6	3738.8	3655.8	3487.5	3331.8	3225.8	2896.0
15°	3698.5	3707.7	3742.3	3798.8	3887.5	3944.0	3903.7	3748.0	3577.4	3451.7	3004.4
17.5°	3751.5	3761.9	3799.9	3880.6	3997.0	4119.3	4163.1	4029.3	3843.7	3693.8	3125.5
20°	3781.5	3795.3	3849.5	3955.5	4091.6	4269.1	4414.4	4344.1	4141.2	3975.1	3265.0
22.5°	3829.9	3841.4	3887.5	4000.5	4163.1	4385.6	4665.7	4650.7	4472.0	4257.6	3418.3
25°	3961.3	3979.8	4002.8	4070.8	4227.6	4504.3	4874.4	4978.2	4792.5	4552.7	3559.0
27.5°	4209.2	4224.2	4223.0	4232.2	4321.0	4606.9	5055.4	5302.1	5110.7	4851.3	3695.0
30°	4491.6	4497.4	4502.0	4481.3	4500.9	4711.8	5221.4	5622.6	5431.2	5158.0	3813.7
32.5°	4835.2	4846.7	4807.5	4754.5	4738.4	4867.5	5358.6	5943.1	5810.5	5469.3	3931.3
35°	5241.0	5271.0	5191.4	5098.1	5032.3	5091.1	5543.1	6270.5	6199.1	5867.0	4087.0
37.5°	5704.5	5741.4	5667.6	5484.3	5390.9	5407.0	5784.0	6675.2	6690.2	6320.1	4318.7
40°	6083.8	6132.2	6134.5	5875.1	5733.3	5751.7	6089.5	7111.0	7282.8	6880.4	4591.9
42.5°	6333.9	6381.2	6430.8	6278.6	6129.9	6234.8	6445.8	7583.7	7949.1	7560.6	4973.5
45°	6608.3	6651.0	6678.7	6609.5	6526.5	6798.6	6875.8	8086.3	8659.3	8320.4	5390.9
47.5°	6926.5	6973.8	7000.3	6934.6	6903.5	7293.1	7339.3	8555.6	9417.9	9058.2	5852.0
50°	7350.8	7386.5	7372.7	7331.2	7324.3	7672.4	7784.3	8994.8	10043.9	9852.5	6330.5
52.5°	7878.8	7921.5	7936.5	7877.7	7851.1	7943.4	8142.8	9394.9	10613.5	10535.1	6841.2
55°	8198.2	8266.2	8494.5	8586.7	8650.1	8293.8	8529.0	9836.4	11124.2	11254.5	7390.0
57.5°	7788.9	7876.5	8387.2	8848.4	9444.4	9170.0	9076.7	10297.6	11634.9	11951.9	8047.1
60°	6790.5	6810.1	7468.4	8318.1	9517.1	10296.4	10219.2	11030.8	12188.3	12655.2	8912.9
62.5°	4710.7	4752.2	5530.4	6886.2	8620.1	10702.2	12162.9	12296.7	12981.5	13707.8	10182.3
65°	2429.1	2374.9	3084.0	4327.9	6498.8	9738.4	13737.8	14624.3	14701.6	15354.1	11969.2
67.5°	1495.3	1519.5	1851.5	2527.1	3842.6	7077.6	13572.9	17468.5	17061.5	17375.1	13628.2
70°	1122.9	1152.9	1381.2	1729.3	2342.7	4046.6	10915.5	18157.9	18726.3	18645.6	14133.2
71°	976.5	1007.6	1245.1	1573.7	1968.0	3123.2	9196.6	17436.2	18783.9	18770.1	13943.0
72.5°	832.4	852.0	1037.6	1332.7	1659.0	2189.3	6909.2	15637.7	17982.7	18442.7	13263.9
75°	653.7	668.7	751.7	1016.8	1306.2	1344.3	3707.7	11723.7	14769.6	15645.8	11042.3
77.5°	532.6	543.0	585.7	755.1	1007.6	952.3	1944.9	7630.9	9253.0	10135.0	6504.6
80°	423.1	434.6	460.0	511.9	755.1	679.0	928.1	3866.8	4469.7	4460.5	2596.3
82.5°	328.6	332.0	362.0	375.8	516.5	481.9	502.7	1637.1	1813.5	1873.4	937.3
85°	207.5	217.9	320.5	288.2	309.0	282.5	247.9	650.2	801.3	789.7	374.7
87.5°	63.4	66.9	108.4	122.2	137.2	123.4	91.1	191.4	234.0	253.6	93.4
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°	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4	2574.4
2.5°	2589.4	2576.7	2531.7	2494.8	2460.3	2422.2	2389.9	2380.7	2372.6	2369.2	2368.0
5°	2613.6	2575.5	2486.8	2414.1	2356.5	2303.5	2270.0	2255.0	2240.1	2240.1	2244.7
7.5°	2648.2	2579.0	2441.8	2333.4	2260.8	2211.2	2187.0	2184.7	2188.2	2191.6	2192.8
10°	2686.2	2576.7	2376.1	2241.2	2176.6	2153.6	2154.7	2174.3	2192.8	2206.6	2208.9
12.5°	2723.1	2562.9	2298.9	2154.7	2113.2	2117.8	2150.1	2193.9	2229.7	2249.3	2250.4
15°	2764.6	2541.0	2205.5	2072.9	2059.1	2094.8	2154.7	2221.6	2275.8	2308.1	2311.5
17.5°	2799.2	2504.1	2107.5	1993.3	2010.6	2076.3	2159.4	2245.8	2311.5	2351.9	2358.8
20°	2838.4	2456.8	2006.0	1917.2	1966.8	2055.6	2150.1	2243.5	2311.5	2350.7	2360.0
22.5°	2869.5	2389.9	1909.2	1855.0	1927.6	2030.2	2119.0	2193.9	2249.3	2270.0	2283.9
25°	2882.2	2305.8	1818.1	1804.3	1896.5	1988.7	2048.7	2091.3	2108.6	2106.3	2112.1
27.5°	2875.3	2208.9	1739.7	1763.9	1857.3	1924.2	1954.1	1950.7	1919.6	1890.7	1904.6
30°	2846.5	2093.6	1674.0	1722.4	1806.6	1843.5	1838.9	1793.9	1735.1	1680.9	1684.4
32.5°	2794.6	1969.1	1612.9	1675.1	1735.1	1751.2	1720.1	1661.3	1577.1	1506.8	1496.4
35°	2750.8	1850.4	1558.7	1621.0	1663.6	1655.5	1625.6	1549.5	1473.4	1411.1	1400.8
37.5°	2743.9	1748.9	1506.8	1559.9	1584.1	1572.5	1535.6	1471.1	1443.4	1396.1	1390.4
40°	2780.8	1677.4	1453.8	1495.3	1506.8	1497.6	1457.2	1420.4	1445.7	1434.2	1434.2
42.5°	2881.1	1639.4	1406.5	1430.7	1440.0	1446.9	1418.0	1386.9	1418.0	1365.0	1347.7
45°	3040.2	1640.6	1363.9	1367.3	1395.0	1419.2	1399.6	1353.5	1337.3	1231.3	1210.5
47.5°	3274.2	1679.8	1329.3	1307.4	1356.9	1397.3	1369.6	1302.8	1231.3	1161.0	1148.3
50°	3547.4	1750.1	1298.1	1245.1	1306.2	1369.6	1348.9	1270.5	1196.7	1154.0	1146.0
52.5°	3850.6	1838.9	1260.1	1175.9	1244.0	1356.9	1353.5	1265.9	1164.4	1135.6	1128.7
55°	4225.3	1926.5	1212.8	1095.2	1188.6	1346.6	1340.8	1227.8	1157.5	1136.7	1134.4
57.5°	4661.1	2053.3	1144.8	1013.4	1125.2	1303.9	1291.2	1204.8	1134.4	1119.5	1118.3
60°	5363.2	2250.4	1048.0	938.4	1060.7	1229.0	1245.1	1165.6	1097.5	1094.1	1092.9
62.5°	6286.7	2527.1	947.7	861.2	985.7	1132.1	1178.2	1112.5	1058.3	1075.6	1077.9
65°	7561.8	2760.0	843.9	795.5	902.7	1038.7	1114.8	1063.0	1014.5	1048.0	1048.0
67.5°	8393.0	2764.6	749.4	727.5	818.5	960.4	1048.0	1004.2	958.0	1014.5	1016.8
70°	8220.1	2422.2	671.0	656.0	736.7	876.2	974.2	939.6	886.6	937.3	918.8
71°	7941.1	2232.0	639.9	628.3	704.4	835.8	939.6	910.8	857.7	891.2	880.8
72.5°	7496.1	1938.0	589.1	591.4	656.0	785.1	891.2	861.2	808.2	826.6	823.2
75°	6336.3	1692.4	503.8	514.2	563.8	698.6	794.3	771.3	717.1	717.1	713.6
77.5°	3961.3	1182.9	418.5	424.3	478.4	598.3	682.5	662.9	611.0	593.7	589.1
80°	1478.0	611.0	327.4	334.3	367.8	471.5	564.9	546.5	493.4	473.8	455.4
82.5°	559.1	306.7	241.0	235.2	270.9	359.7	442.7	420.8	379.3	332.0	318.2
85°	211.0	152.2	147.6	143.0	159.1	213.3	274.4	269.8	226.0	192.5	189.1
87.5°	55.3	49.6	57.6	42.7	45.0	40.4	41.5	17.3	8.1	3.5	2.3
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)