

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: P452557

Luminaire Tested: **GALN-SA3C-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452557  
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-SA3C-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19222 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

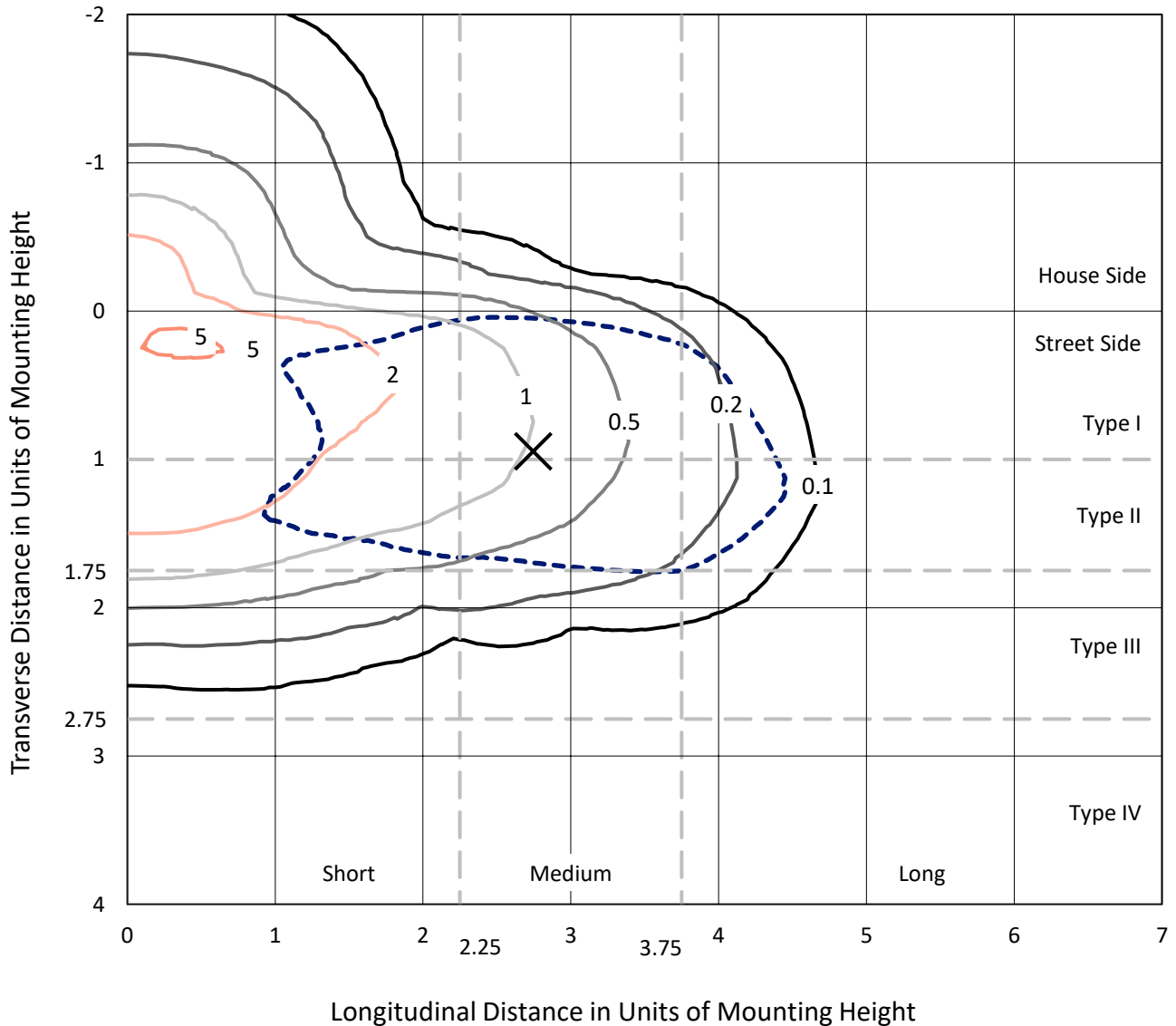
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

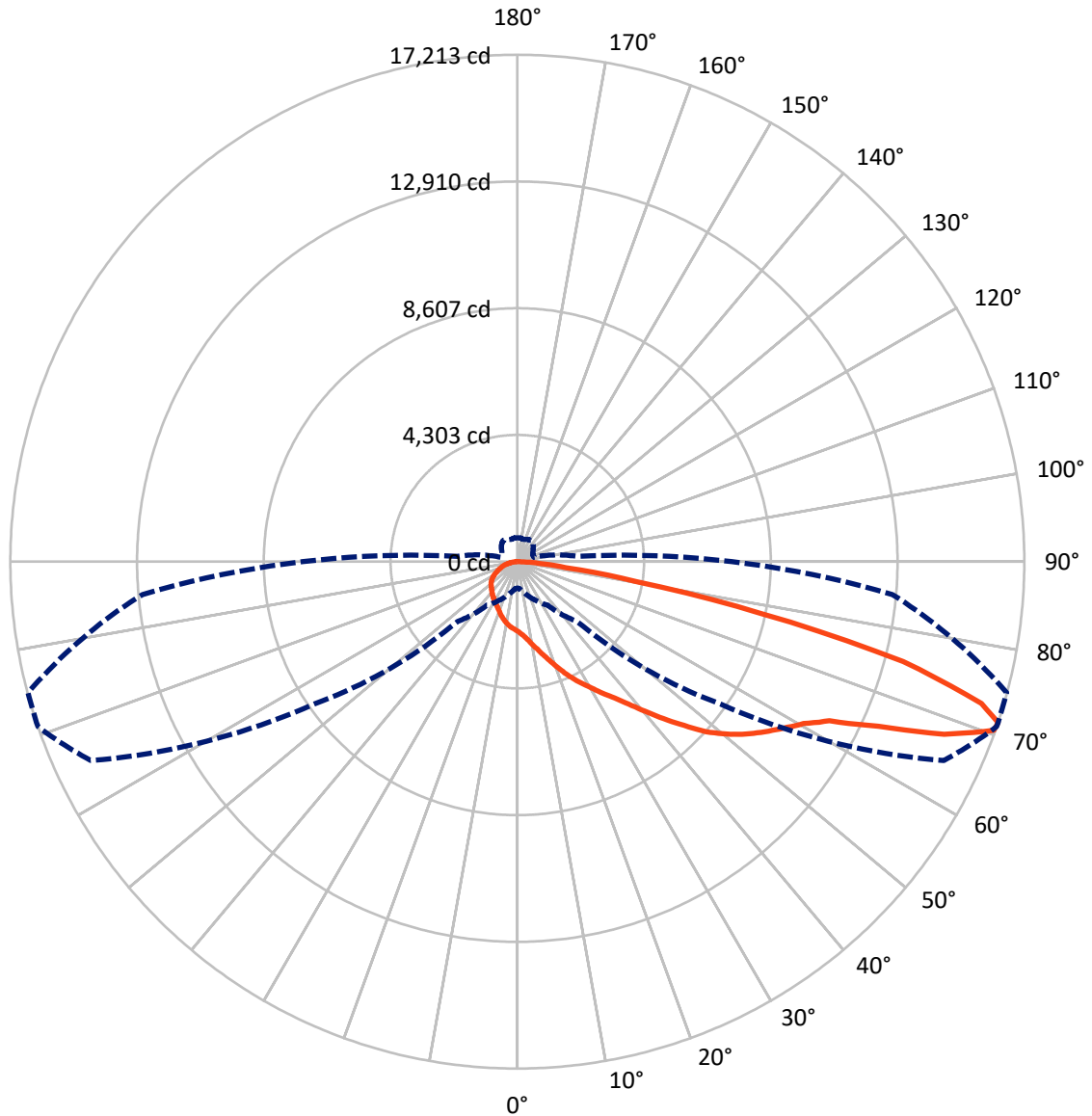
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	3457.0	0.0	3457.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	15765.0	0.0	15765.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	19222.0	0.0	19222.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.9	1.2
10°-20°	769.6	4.0
20°-30°	1344.9	7.0
30°-40°	2000.4	10.4
40°-50°	2947.3	15.3
50°-60°	4126.2	21.5
60°-70°	4615.1	24.0
70°-80°	2819.1	14.7
80°-90°	362.6	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°	19222.0	100.0
0°-180°	19222.0	100.0

**Coefficient of Utilization**



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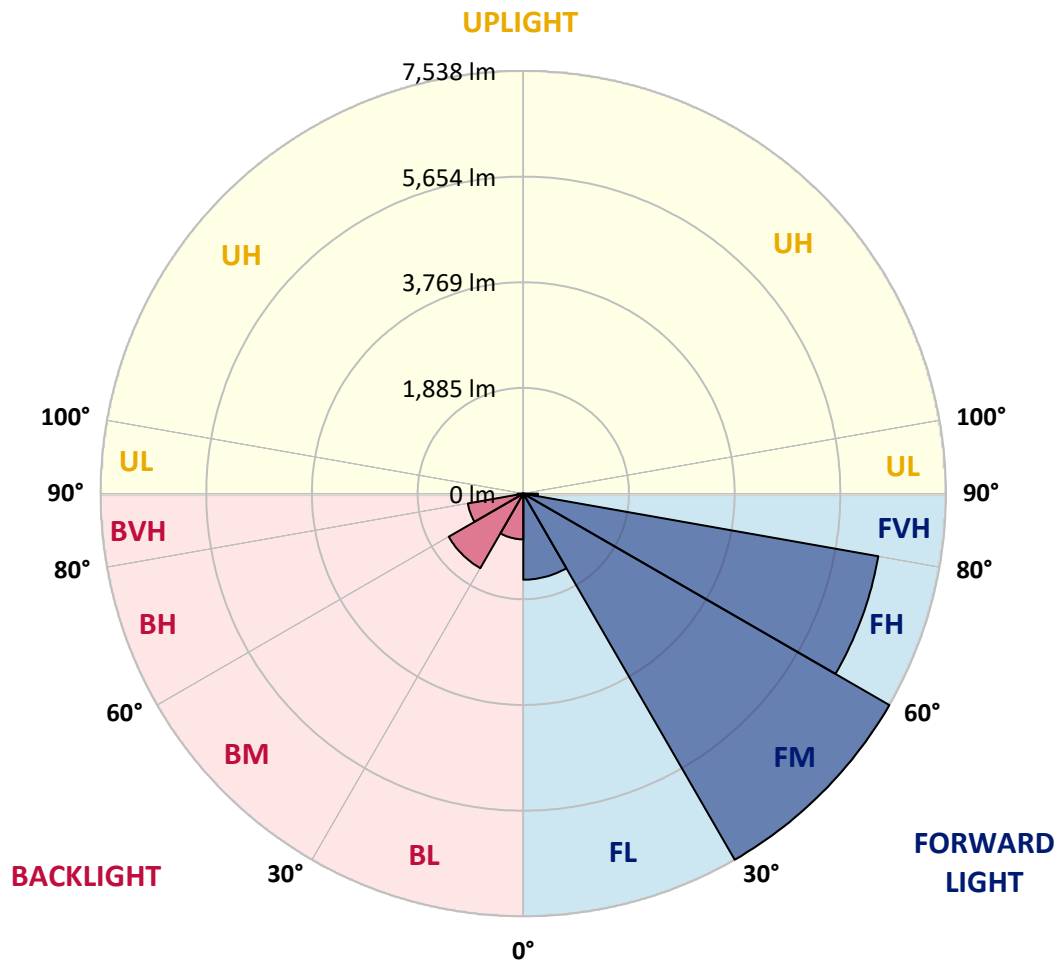
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1535.8	8.0			
FM	(30°-60°)	7538.5	39.2			
FH	(60°-80°)	6429.7	33.4			G3/7500
FVH	(80°-90°)	260.9	1.4			G3/500
BL	(0°-30°)	815.5	4.2	B2/1000		
BM	(30°-60°)	1535.4	8.0	B2/2500		
BH	(60°-80°)	1004.4	5.2	B3/2500		G3/2500
BVH	(80°-90°)	101.7	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°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2619.0	2606.3	2607.4	2589.4	2566.2	2540.8	2504.9	2473.2	2447.9	2433.1	2389.8
5°	2902.2	2889.5	2873.6	2834.5	2817.6	2755.3	2676.1	2604.2	2549.3	2518.6	2432.0
7.5°	3131.4	3128.2	3124.0	3101.8	3058.5	2971.9	2904.3	2779.6	2698.3	2640.1	2492.2
10°	3273.0	3278.3	3281.4	3285.7	3267.7	3222.3	3129.3	2971.9	2868.3	2794.4	2570.4
12.5°	3344.8	3350.1	3368.1	3407.2	3431.4	3426.2	3350.1	3195.9	3053.2	2956.0	2653.9
15°	3389.2	3397.6	3429.3	3481.1	3562.5	3614.2	3577.2	3434.6	3278.3	3163.1	2753.2
17.5°	3437.8	3447.3	3482.2	3556.1	3662.8	3774.8	3815.0	3692.4	3522.3	3385.0	2864.1
20°	3465.3	3477.9	3527.6	3624.8	3749.4	3912.1	4045.3	3980.8	3794.9	3642.7	2992.0
22.5°	3509.6	3520.2	3562.5	3666.0	3815.0	4018.9	4275.6	4261.8	4098.1	3901.6	3132.5
25°	3630.1	3647.0	3668.1	3730.4	3874.1	4127.7	4466.8	4561.9	4391.8	4172.0	3261.4
27.5°	3857.2	3870.9	3869.9	3878.3	3959.7	4221.7	4632.7	4858.8	4683.4	4445.7	3386.0
30°	4116.0	4121.3	4125.6	4106.5	4124.5	4317.8	4784.8	5152.5	4977.1	4726.7	3494.8
32.5°	4430.9	4441.4	4405.5	4356.9	4342.1	4460.5	4910.5	5446.2	5324.7	5011.9	3602.6
35°	4802.8	4830.2	4757.3	4671.8	4611.5	4665.4	5079.6	5746.2	5680.7	5376.4	3745.2
37.5°	5227.5	5261.3	5193.7	5025.7	4940.1	4954.9	5300.4	6117.0	6130.8	5791.6	3957.6
40°	5575.0	5619.4	5621.5	5383.8	5253.9	5270.8	5580.3	6516.4	6673.8	6305.1	4208.0
42.5°	5804.3	5847.6	5893.0	5753.6	5617.3	5713.4	5906.8	6949.5	7284.4	6928.4	4557.7
45°	6055.7	6094.8	6120.2	6056.8	5980.7	6230.1	6300.9	7410.2	7935.2	7624.6	4940.1
47.5°	6347.3	6390.7	6415.0	6354.7	6326.2	6683.3	6725.6	7840.1	8630.4	8300.8	5362.7
50°	6736.1	6768.9	6756.2	6718.2	6711.8	7030.9	7133.4	8242.7	9204.1	9028.7	5801.1
52.5°	7220.0	7259.1	7272.8	7218.9	7194.6	7279.2	7461.9	8609.3	9726.0	9654.1	6269.2
55°	7512.6	7575.0	7784.1	7868.7	7926.8	7600.3	7815.8	9013.9	10194.0	10313.4	6772.0
57.5°	7137.6	7217.9	7685.9	8108.5	8654.7	8403.2	8317.7	9436.5	10662.0	10952.5	7374.2
60°	6222.7	6240.6	6843.9	7622.5	8721.2	9435.4	9364.6	10108.4	11169.1	11597.0	8167.7
62.5°	4316.8	4354.8	5067.9	6310.4	7899.3	9807.3	11145.9	11268.4	11896.0	12561.6	9330.8
65°	2226.0	2176.4	2826.1	3966.0	5955.4	8924.1	12589.0	13401.5	13472.2	14070.2	10968.4
67.5°	1370.3	1392.4	1696.7	2315.8	3521.3	6485.7	12437.9	16007.8	15634.9	15922.2	12488.7
70°	1029.0	1056.5	1265.7	1584.7	2146.8	3708.2	10002.8	16639.6	17160.4	17086.5	12951.4
71°	894.8	923.4	1141.0	1442.1	1803.4	2862.0	8427.5	15978.2	17213.2	17200.6	12777.1
72.5°	762.8	780.7	950.8	1221.3	1520.3	2006.3	6331.5	14330.1	16479.0	16900.5	12154.8
75°	599.0	612.8	688.8	931.8	1197.0	1231.9	3397.6	10743.4	13534.6	14337.5	10119.0
77.5°	488.1	497.6	536.7	692.0	923.4	872.7	1782.3	6992.8	8479.3	9287.5	5960.7
80°	387.7	398.3	421.5	469.1	692.0	622.3	850.5	3543.4	4096.0	4087.5	2379.2
82.5°	301.1	304.3	331.7	344.4	473.3	441.6	460.6	1500.2	1661.8	1716.8	858.9
85°	190.2	199.7	293.7	264.1	283.1	258.8	227.1	595.9	734.3	723.7	343.4
87.5°	58.1	61.3	99.3	112.0	125.7	113.0	83.5	175.4	214.5	232.4	85.6
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°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2372.9	2361.2	2320.0	2286.2	2254.5	2219.7	2190.1	2181.6	2174.2	2171.1	2170.0
5°	2395.0	2360.2	2278.8	2212.3	2159.4	2110.8	2080.2	2066.5	2052.7	2052.7	2057.0
7.5°	2426.7	2363.3	2237.6	2138.3	2071.8	2026.3	2004.1	2002.0	2005.2	2008.4	2009.4
10°	2461.6	2361.2	2177.4	2053.8	1994.6	1973.5	1974.6	1992.5	2009.4	2022.1	2024.2
12.5°	2495.4	2348.6	2106.6	1974.6	1936.5	1940.8	1970.3	2010.5	2043.2	2061.2	2062.3
15°	2533.4	2328.5	2021.0	1899.6	1886.9	1919.6	1974.6	2035.8	2085.5	2115.1	2118.2
17.5°	2565.1	2294.7	1931.2	1826.7	1842.5	1902.7	1978.8	2058.0	2118.2	2155.2	2161.6
20°	2601.1	2251.4	1838.3	1756.9	1802.4	1883.7	1970.3	2055.9	2118.2	2154.2	2162.6
22.5°	2629.6	2190.1	1749.5	1699.9	1766.4	1860.5	1941.8	2010.5	2061.2	2080.2	2092.9
25°	2641.2	2113.0	1666.1	1653.4	1737.9	1822.4	1877.4	1916.5	1932.3	1930.2	1935.5
27.5°	2634.9	2024.2	1594.2	1616.4	1702.0	1763.3	1790.7	1787.6	1759.0	1732.6	1745.3
30°	2608.5	1918.6	1534.0	1578.4	1655.5	1689.3	1685.1	1643.9	1590.0	1540.3	1543.5
32.5°	2560.9	1804.5	1478.0	1535.1	1590.0	1604.8	1576.3	1522.4	1445.3	1380.8	1371.3
35°	2520.8	1695.7	1428.4	1485.4	1524.5	1517.1	1489.6	1419.9	1350.2	1293.1	1283.6
37.5°	2514.4	1602.7	1380.8	1429.4	1451.6	1441.0	1407.2	1348.1	1322.7	1279.4	1274.1
40°	2548.2	1537.2	1332.2	1370.3	1380.8	1372.4	1335.4	1301.6	1324.8	1314.3	1314.3
42.5°	2640.1	1502.3	1288.9	1311.1	1319.5	1325.9	1299.5	1270.9	1299.5	1250.9	1235.0
45°	2785.9	1503.4	1249.8	1253.0	1278.3	1300.5	1282.6	1240.3	1225.5	1128.3	1109.3
47.5°	3000.4	1539.3	1218.1	1198.0	1243.5	1280.5	1255.1	1193.8	1128.3	1063.9	1052.3
50°	3250.8	1603.7	1189.6	1141.0	1197.0	1255.1	1236.1	1164.2	1096.6	1057.5	1050.1
52.5°	3528.6	1685.1	1154.7	1077.6	1139.9	1243.5	1240.3	1160.0	1067.0	1040.6	1034.3
55°	3872.0	1765.4	1111.4	1003.7	1089.2	1234.0	1228.7	1125.2	1060.7	1041.7	1039.6
57.5°	4271.4	1881.6	1049.1	928.6	1031.1	1194.9	1183.3	1104.0	1039.6	1025.8	1024.8
60°	4914.7	2062.3	960.3	860.0	972.0	1126.2	1141.0	1068.1	1005.8	1002.6	1001.5
62.5°	5761.0	2315.8	868.4	789.2	903.3	1037.5	1079.7	1019.5	969.8	985.7	987.8
65°	6929.5	2529.2	773.3	729.0	827.2	951.9	1021.6	974.1	929.7	960.3	960.3
67.5°	7691.2	2533.4	686.7	666.6	750.1	880.0	960.3	920.2	877.9	929.7	931.8
70°	7532.7	2219.7	614.9	601.1	675.1	802.9	892.7	861.0	812.4	858.9	842.0
71°	7277.0	2045.3	586.3	575.8	645.5	765.9	861.0	834.6	786.0	816.7	807.2
72.5°	6869.2	1775.9	539.9	542.0	601.1	719.5	816.7	789.2	740.6	757.5	754.3
75°	5806.4	1550.9	461.7	471.2	516.6	640.2	727.9	706.8	657.1	657.1	654.0
77.5°	3630.1	1083.9	383.5	388.8	438.4	548.3	625.4	607.5	559.9	544.1	539.9
80°	1354.4	559.9	300.0	306.4	337.0	432.1	517.7	500.8	452.2	434.2	417.3
82.5°	512.4	281.0	220.8	215.5	248.3	329.6	405.7	385.6	347.6	304.3	291.6
85°	193.3	139.5	135.2	131.0	145.8	195.4	251.4	247.2	207.1	176.4	173.3
87.5°	50.7	45.4	52.8	39.1	41.2	37.0	38.0	15.8	7.4	3.2	2.1
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)