

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: P458910

Luminaire Tested: **GALN-SA4B-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21370 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

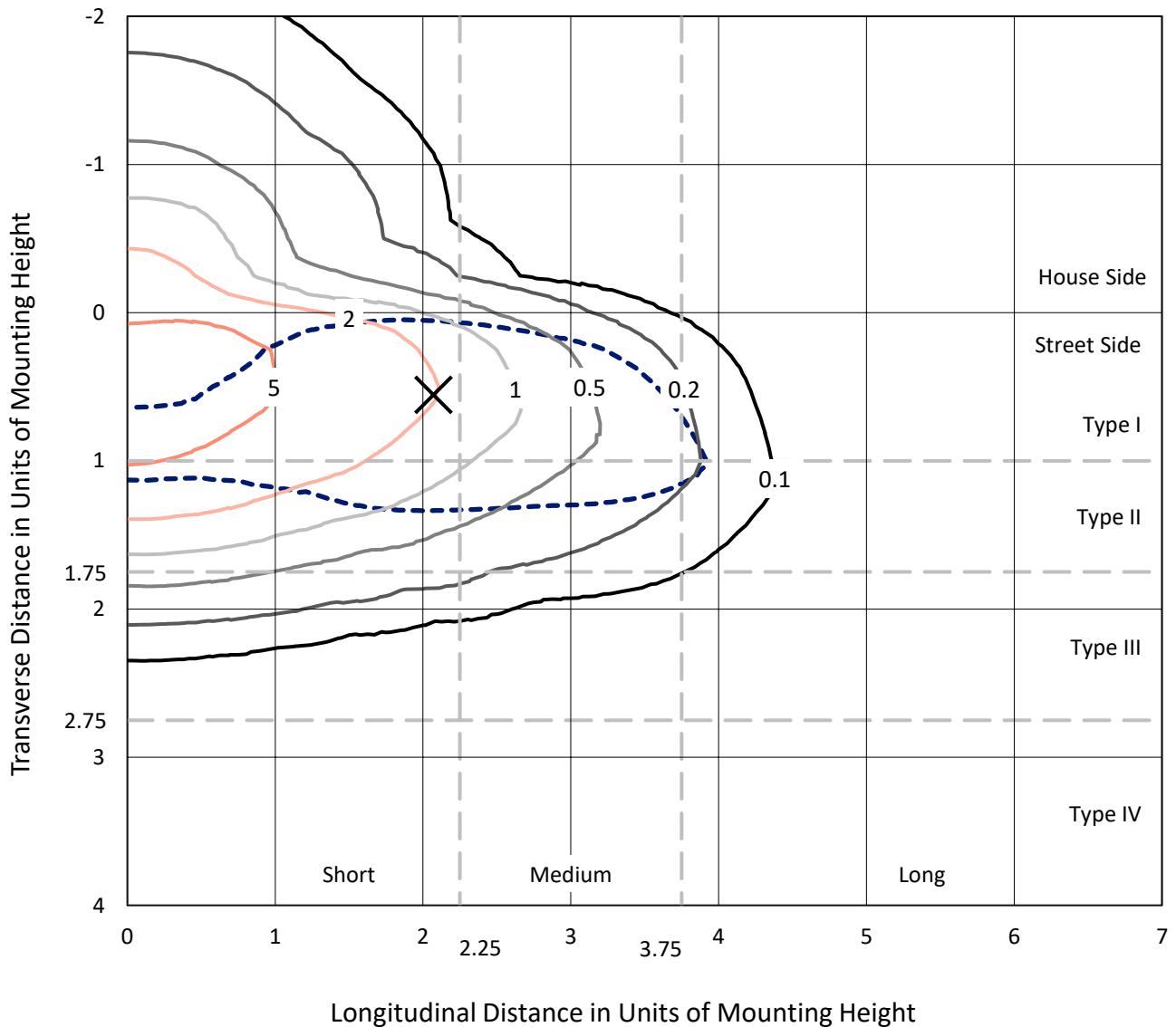
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

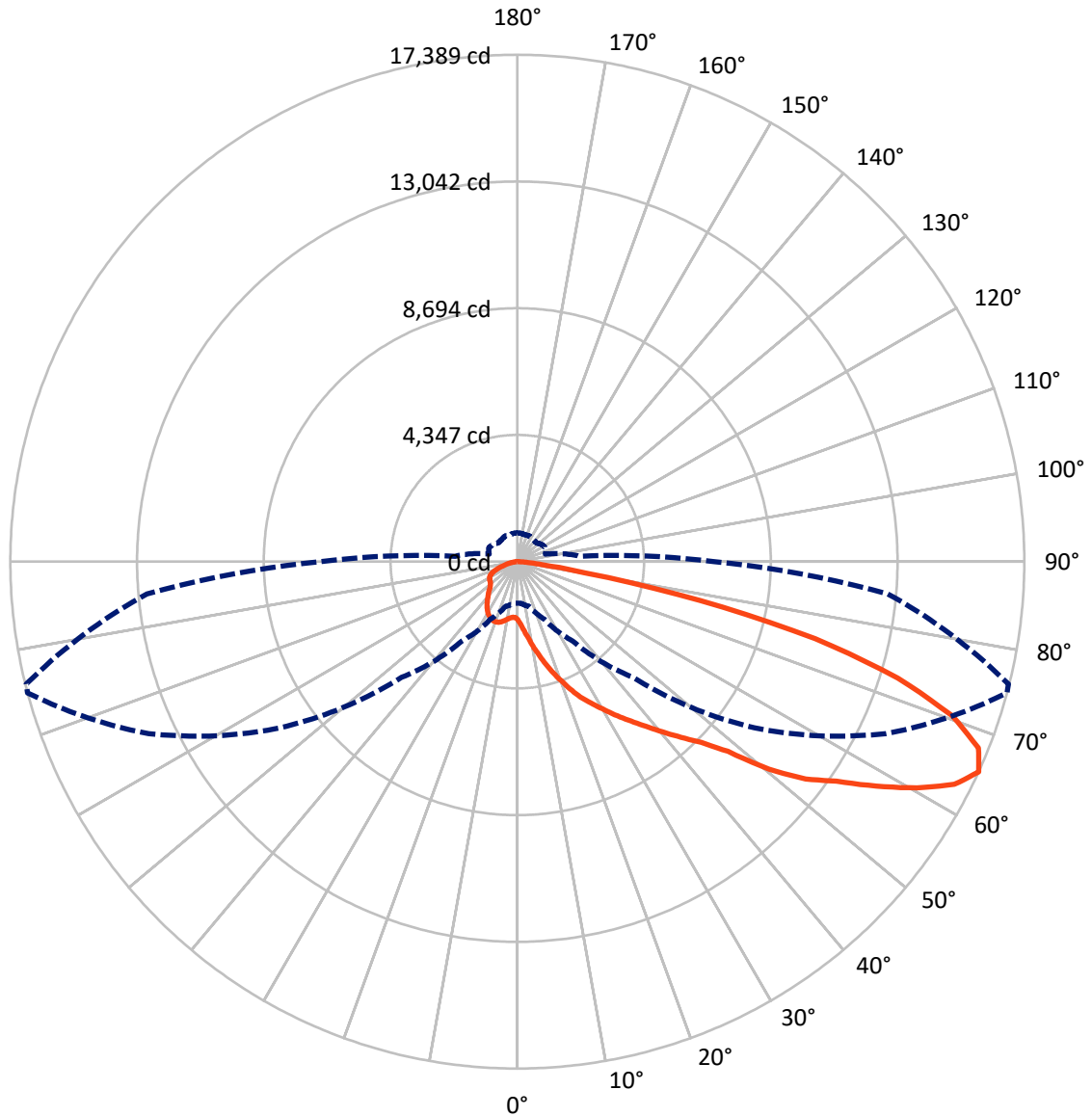
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3592.6	0.0	3592.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	17777.4	0.0	17777.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	21370.0	0.0	21370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.2	1.1
10°-20°	944.9	4.4
20°-30°	1825.2	8.5
30°-40°	2964.7	13.9
40°-50°	4078.2	19.1
50°-60°	4815.0	22.5
60°-70°	4218.7	19.7
70°-80°	2014.0	9.4
80°-90°	268.0	1.3
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°	21370.0	100.0
0°-180°	21370.0	100.0

**Coefficient of Utilization**



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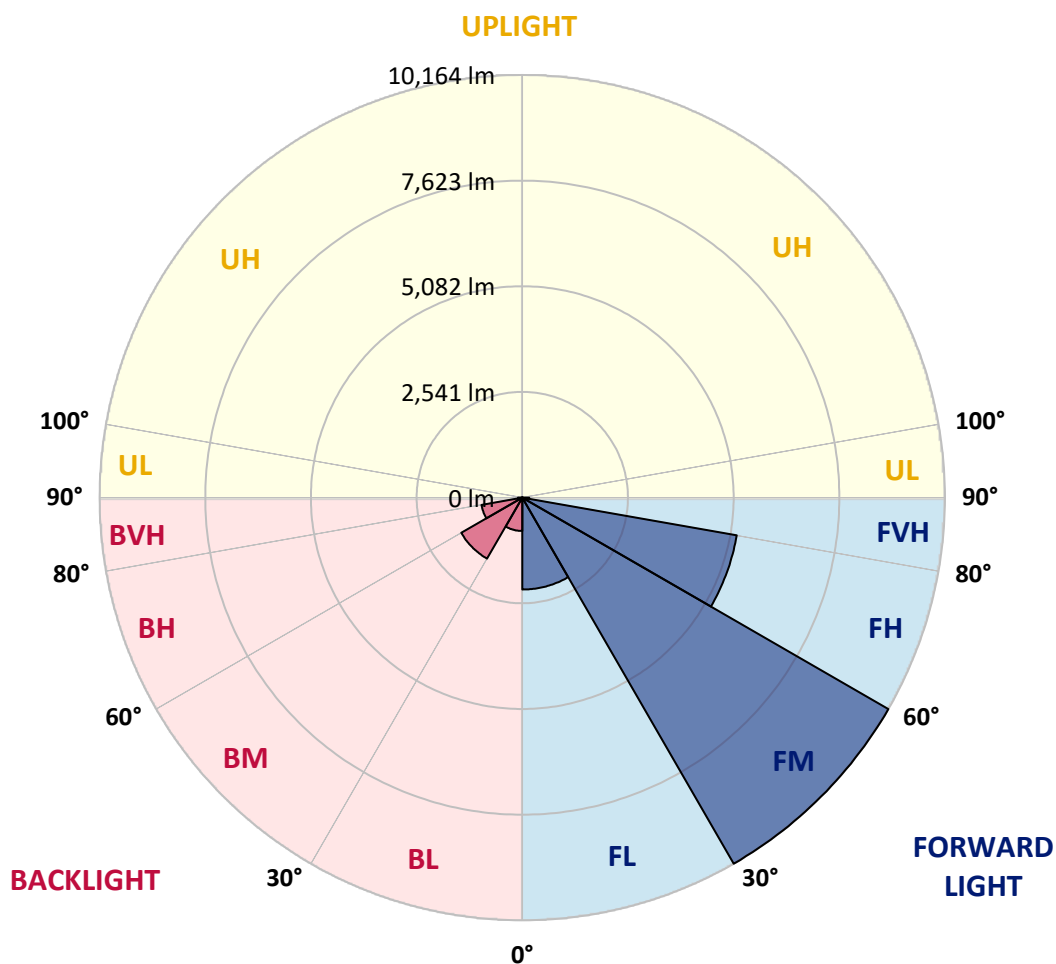
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2209.3	10.3			
FM	(30°-60°)	10164.0	47.6			
FH	(60°-80°)	5236.6	24.5			G3/7500
FVH	(80°-90°)	167.5	0.8			G2/225
BL	(0°-30°)	802.0	3.8	B2/1000		
BM	(30°-60°)	1693.9	7.9	B2/2500		
BH	(60°-30°)	996.2	4.7	B2/1000		G2/1000
BVH	(80°-90°)	100.5	0.5			G2/225
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5
2.5°	2638.1	2620.7	2602.2	2551.2	2496.7	2435.3	2347.2	2262.6	2150.1	2146.7	2063.2
5°	3369.5	3357.9	3275.6	3228.1	3101.8	2933.7	2791.1	2569.7	2364.6	2340.2	2178.0
7.5°	4041.8	3996.6	3965.3	3879.5	3754.3	3538.7	3262.9	2963.8	2620.7	2588.3	2319.4
10°	4548.3	4543.7	4527.5	4453.3	4359.4	4145.0	3838.9	3410.1	2945.3	2881.5	2490.9
12.5°	4927.3	4930.8	4928.5	4927.3	4860.1	4678.1	4346.6	3894.6	3273.3	3228.1	2689.1
15°	5176.6	5211.3	5225.2	5283.2	5289.0	5167.3	4882.1	4362.9	3643.1	3575.8	2902.4
17.5°	5341.1	5358.5	5423.4	5522.0	5601.9	5579.9	5326.1	4796.4	4020.9	3908.5	3123.8
20°	5498.8	5528.9	5578.8	5713.2	5854.6	5919.5	5741.0	5240.3	4395.3	4323.5	3368.4
22.5°	5826.8	5869.7	5887.1	5955.5	6076.0	6190.8	6109.6	5665.7	4805.6	4708.3	3628.0
25°	6382.0	6427.2	6378.5	6362.3	6401.7	6458.5	6441.1	6066.7	5192.8	5053.7	3873.7
27.5°	7105.3	7111.1	7016.0	6925.6	6828.3	6799.3	6746.0	6422.6	5528.9	5413.0	4120.6
30°	7881.9	7854.1	7696.4	7533.0	7368.4	7206.1	7053.1	6765.7	5903.3	5770.0	4362.9
32.5°	8602.9	8587.8	8412.8	8158.9	7880.7	7727.7	7418.3	7112.3	6304.4	6175.7	4612.1
35°	9143.0	9165.0	8972.6	8695.6	8391.9	8256.3	7865.7	7476.2	6719.3	6579.1	4883.3
37.5°	9526.7	9515.1	9344.7	9104.8	8838.2	8719.9	8388.4	7873.8	7165.6	7031.1	5180.0
40°	9663.4	9656.5	9530.1	9355.1	9185.9	9144.2	8935.5	8302.7	7676.7	7519.1	5537.0
42.5°	9576.5	9591.6	9508.1	9460.6	9429.3	9459.4	9479.1	8864.8	8234.3	8089.4	5924.2
45°	9309.9	9301.8	9290.2	9367.9	9544.1	9742.3	10017.0	9395.7	8840.5	8724.6	6443.5
47.5°	8833.5	8891.5	8920.5	9134.9	9519.7	9989.1	10635.9	10107.4	9720.2	9619.4	7235.1
50°	8167.0	8213.4	8384.9	8766.3	9340.0	10081.9	11241.0	11271.1	11187.7	10998.7	8095.2
52.5°	7126.2	7198.0	7551.6	8250.5	8971.5	10043.6	11607.3	12269.1	12379.2	12237.8	8942.5
55°	5961.3	6062.1	6435.3	7352.2	8463.8	9835.0	11859.9	12847.5	13286.8	13155.8	9758.5
57.5°	4820.7	4927.3	5311.0	6198.9	7578.2	9373.7	12025.7	13492.0	14522.4	14352.0	10773.9
60°	3612.9	3724.2	4053.4	4967.9	6317.1	8471.9	11913.3	14050.6	15756.8	15683.8	11790.4
62.5°	2331.0	2453.8	2740.1	3497.0	4855.5	7239.8	11311.7	14359.0	16825.5	16737.4	12532.2
65°	1419.9	1433.8	1591.4	2171.0	3323.1	5605.4	9935.8	13949.8	17388.9	17362.2	12758.2
67.5°	918.0	940.0	1011.9	1300.5	1992.5	3893.4	7944.5	12599.4	17059.7	17050.4	12291.1
70°	775.4	782.4	814.8	877.4	1157.9	2361.1	5578.8	10447.0	15809.0	15809.0	11168.0
72.5°	693.1	702.4	714.0	733.7	826.4	1337.6	3328.9	8132.3	13649.6	13740.0	9505.8
75°	629.4	627.1	634.0	637.5	704.7	874.0	1721.3	6014.6	10559.4	10378.6	6883.9
77.5°	539.0	542.5	539.0	554.1	622.4	665.3	874.0	4036.0	6399.4	6165.3	3455.3
80°	442.8	448.6	454.4	463.6	532.0	505.4	525.1	1839.5	2366.9	2317.0	1067.5
82.5°	332.7	340.8	350.0	372.1	418.4	333.8	331.5	785.9	854.3	782.4	392.9
85°	134.5	158.8	239.9	262.0	263.1	183.1	204.0	328.0	348.9	340.8	154.2
87.5°	31.3	37.1	77.7	117.1	107.8	68.4	75.3	106.6	121.7	112.4	52.2
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°	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5
2.5°	2025.0	1984.4	1914.8	1861.5	1823.3	1789.7	1768.8	1756.0	1751.4	1750.2	1751.4
5°	2093.3	2021.5	1911.4	1841.8	1803.6	1781.5	1768.8	1767.6	1768.8	1769.9	1766.5
7.5°	2187.2	2084.1	1940.3	1875.4	1846.5	1830.2	1824.4	1822.1	1823.3	1822.1	1822.1
10°	2312.4	2171.0	1997.1	1929.9	1905.6	1887.0	1877.7	1872.0	1867.3	1862.7	1860.4
12.5°	2450.3	2267.2	2058.6	1993.7	1958.9	1929.9	1909.0	1894.0	1883.5	1873.1	1870.8
15°	2604.5	2369.2	2127.0	2036.5	1986.7	1943.8	1907.9	1883.5	1865.0	1849.9	1848.8
17.5°	2751.7	2465.4	2173.3	2056.2	1983.2	1923.0	1875.4	1841.8	1818.6	1798.9	1796.6
20°	2909.3	2557.0	2194.2	2043.5	1948.5	1875.4	1812.8	1772.3	1745.6	1723.6	1720.1
22.5°	3068.1	2634.6	2191.9	2002.9	1888.2	1802.4	1736.3	1693.4	1662.2	1640.1	1632.0
25°	3220.0	2697.2	2162.9	1938.0	1804.7	1715.5	1648.2	1608.8	1581.0	1554.4	1554.4
27.5°	3356.8	2734.3	2108.4	1859.2	1718.9	1625.1	1571.7	1535.8	1510.3	1492.9	1482.5
30°	3491.2	2751.7	2034.2	1759.5	1628.5	1548.6	1505.7	1484.8	1461.6	1441.9	1439.6
32.5°	3611.8	2748.2	1941.5	1662.2	1542.8	1486.0	1468.6	1452.4	1428.0	1400.2	1393.2
35°	3728.8	2725.1	1831.4	1555.5	1470.9	1448.9	1453.5	1430.3	1386.3	1351.5	1345.7
37.5°	3856.3	2683.3	1710.8	1468.6	1410.6	1431.5	1443.1	1392.1	1320.2	1265.7	1253.0
40°	4003.5	2635.8	1585.7	1381.7	1363.1	1415.3	1415.3	1321.4	1222.9	1189.2	1180.0
42.5°	4176.2	2596.4	1481.3	1308.6	1323.7	1375.9	1370.1	1227.5	1186.9	1169.5	1164.9
45°	4449.8	2582.5	1373.5	1244.9	1291.2	1329.5	1282.0	1195.0	1171.9	1157.9	1153.3
47.5°	4882.1	2598.7	1278.5	1197.4	1254.1	1283.1	1183.4	1173.0	1156.8	1137.1	1134.8
50°	5283.2	2583.6	1211.3	1170.7	1221.7	1227.5	1142.9	1146.4	1137.1	1115.1	1110.4
52.5°	5611.2	2536.1	1168.4	1156.8	1193.9	1130.1	1104.6	1117.4	1113.9	1086.1	1081.4
55°	5971.7	2507.1	1147.5	1156.8	1175.3	1045.5	1068.7	1087.2	1082.6	1062.9	1061.7
57.5°	6408.7	2512.9	1132.4	1160.3	1156.8	1002.6	1032.8	1054.8	1053.6	1047.8	1047.8
60°	6856.1	2515.3	1109.3	1159.1	1134.8	969.0	995.7	1027.0	1029.3	1032.8	1032.8
62.5°	7004.5	2414.4	1064.1	1138.2	1086.1	936.6	960.9	1003.8	1001.5	1010.7	1011.9
65°	6727.4	2135.1	996.8	1090.7	1023.5	913.4	934.2	973.6	960.9	985.2	989.9
67.5°	6123.5	1766.5	892.5	1004.9	953.9	889.0	916.9	931.9	908.7	956.3	957.4
70°	5292.5	1379.3	760.4	883.2	875.1	863.5	902.9	879.8	847.3	905.3	893.7
72.5°	4425.5	1053.6	607.4	722.1	769.6	825.3	878.6	812.5	767.3	784.7	763.8
75°	3324.3	778.9	488.0	565.6	641.0	770.8	856.6	731.4	661.8	645.6	641.0
77.5°	1694.6	508.8	365.1	423.1	481.0	696.6	826.4	636.3	548.3	522.8	511.2
80°	605.1	316.4	257.3	292.1	324.5	599.3	722.1	526.2	425.4	420.8	425.4
82.5°	280.5	204.0	172.7	191.3	192.4	399.9	550.6	392.9	323.4	491.5	415.0
85°	120.5	102.0	97.4	95.0	88.1	178.5	309.5	211.0	329.2	147.2	135.6
87.5°	35.9	40.6	35.9	26.7	19.7	19.7	31.3	11.6	8.1	5.8	5.8
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)