

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: P455298

Luminaire Tested: **GALN-SA6C-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35207 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

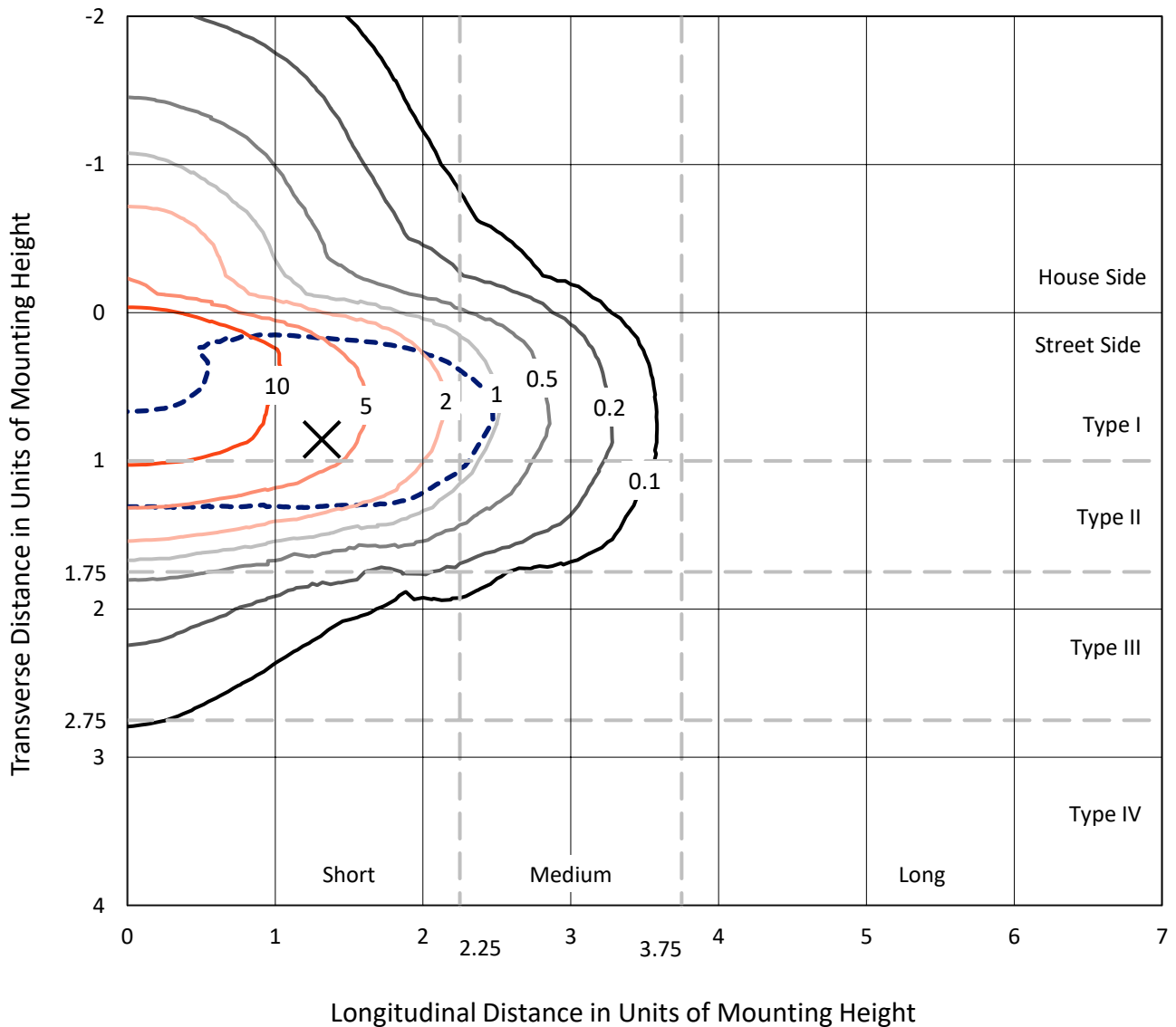
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

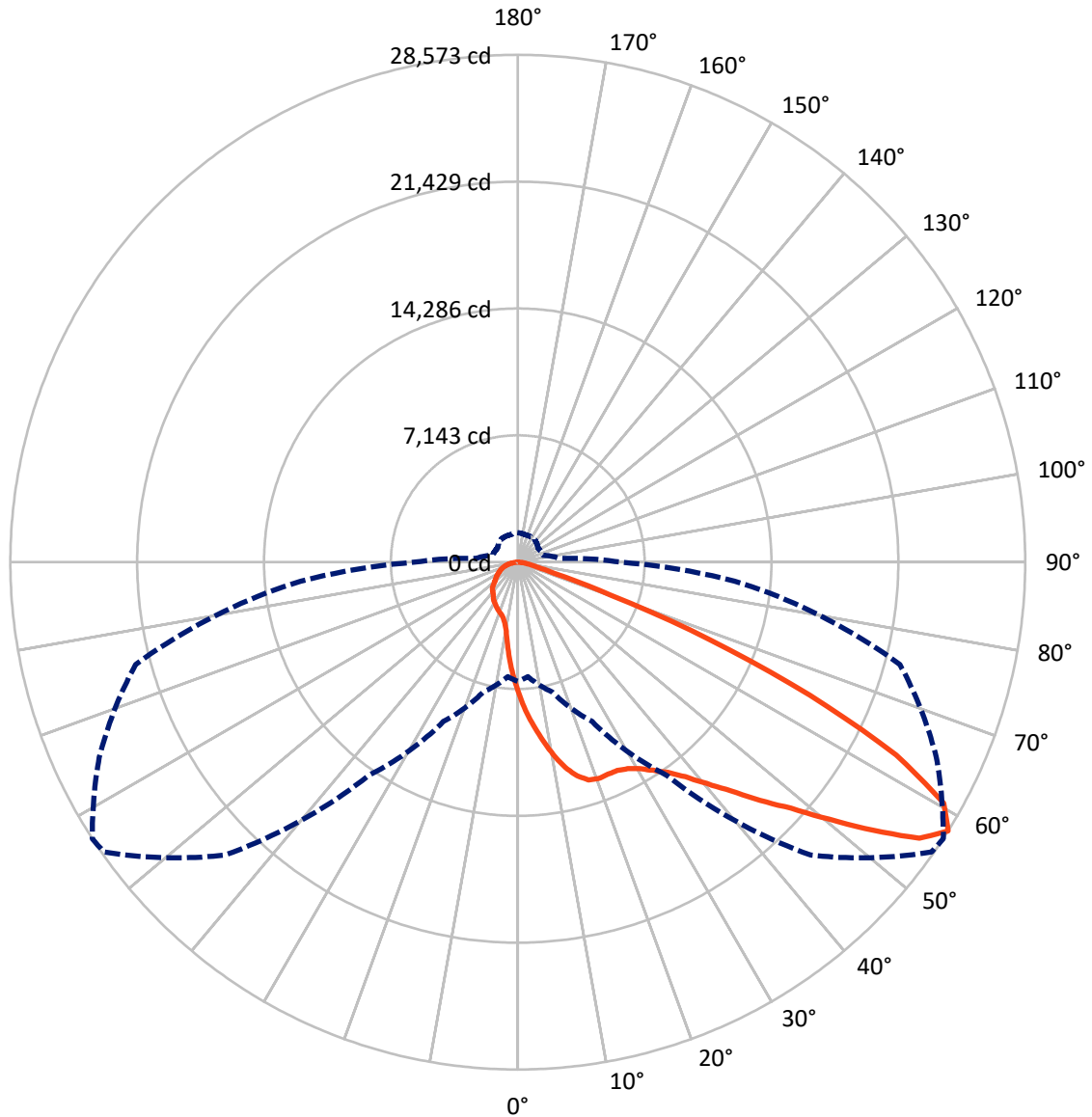
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5354.0	0.0	5354.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	29853.0	0.0	29853.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	35207.0	0.0	35207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.9	2.0
10°-20°	2095.0	6.0
20°-30°	3478.8	9.9
30°-40°	5240.1	14.9
40°-50°	7867.5	22.3
50°-60°	8818.5	25.0
60°-70°	5161.0	14.7
70°-80°	1526.6	4.3
80°-90°	308.6	0.9
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°	35207.0	100.0
0°-180°	35207.0	100.0

Coefficient of Utilization



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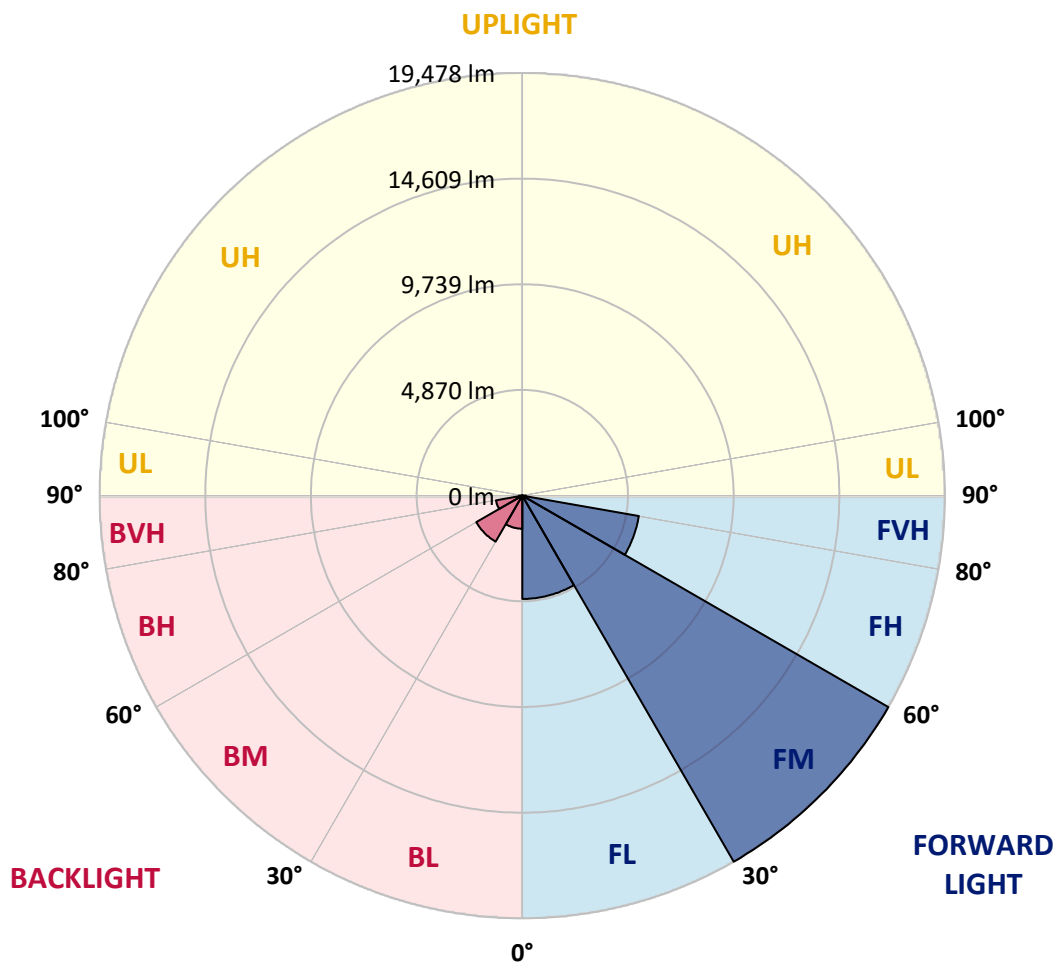
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4759.2	13.5			
FM	(30°-60°)	19478.1	55.3			
FH	(60°-80°)	5455.7	15.5			G3/7500
FVH	(80°-90°)	160.1	0.5			G2/225
BL	(0°-30°)	1525.5	4.3	B3/2500		
BM	(30°-60°)	2448.1	7.0	B2/2500		
BH	(60°-80°)	1231.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	148.5	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6
2.5°	9190.8	9090.6	9011.6	8942.2	8851.6	8606.9	8362.1	8358.3	8163.6	7863.0	7554.6
5°	10688.2	10553.3	10570.7	10354.8	10139.0	9784.4	9266.0	9239.0	8824.6	8261.9	7689.5
7.5°	11663.4	11665.3	11611.4	11488.0	11254.8	10852.1	10264.3	10131.3	9555.1	8701.3	7843.7
10°	11613.3	11665.3	11755.9	11861.9	11933.2	11734.7	11199.0	11037.1	10287.4	9233.2	8015.2
12.5°	10946.5	11027.4	11156.6	11422.5	11852.3	12179.9	11996.8	11865.8	11135.4	9763.2	8204.1
15°	10530.2	10578.4	10649.7	10828.9	11291.5	12075.8	12549.9	12480.5	11935.1	10362.5	8416.1
17.5°	10403.0	10451.2	10474.3	10584.2	10913.7	11717.4	12767.7	12891.0	12644.3	10913.7	8630.0
20°	10530.2	10553.3	10553.3	10618.9	10877.1	11507.3	12758.1	13006.7	13226.4	11574.8	8830.4
22.5°	10863.6	10873.3	10859.8	10882.9	11075.6	11565.1	12667.5	12975.8	13696.6	12135.6	8986.5
25°	11405.2	11420.6	11331.9	11278.0	11418.7	11819.5	12717.6	13000.9	14064.7	12671.3	9090.6
27.5°	12019.9	12039.2	11931.3	11806.0	11871.5	12133.6	12914.2	13168.5	14340.3	13199.4	9156.1
30°	12773.5	12781.2	12600.0	12449.7	12407.3	12602.0	13249.5	13486.5	14683.3	13821.9	9254.4
32.5°	13544.4	13602.2	13369.0	13157.0	13085.7	13145.4	13744.8	13974.1	15091.9	14490.6	9412.4
35°	14592.7	14602.4	14322.9	14064.7	13829.6	13906.7	14378.8	14544.6	15656.6	15263.4	9636.0
37.5°	15901.3	15990.0	15604.5	15122.7	14833.6	14721.9	15145.9	15327.0	16448.6	16211.6	9973.3
40°	17354.4	17387.2	17057.6	16757.0	16228.9	15905.2	16198.1	16394.7	17425.7	17342.9	10364.5
42.5°	18267.9	18339.2	18364.3	18333.4	17936.4	17393.0	17504.7	17597.2	18582.0	18404.7	10765.3
45°	18576.3	18682.3	19040.7	19800.0	19842.4	19306.7	19046.5	19135.2	19842.4	19476.3	11148.8
47.5°	18065.6	18246.7	18907.7	20464.9	21630.9	21671.3	20887.0	20692.3	20991.0	20364.7	11426.4
50°	16745.4	16784.0	17795.8	20050.6	22469.2	23932.0	23120.6	22758.3	22081.8	21021.9	11617.2
52.5°	14702.6	14746.9	15594.9	18125.3	21952.7	25512.3	25733.9	25086.3	23190.0	21532.6	11742.4
55°	10913.7	11170.0	12102.8	14548.4	19505.2	25363.9	27811.4	27443.3	24529.4	21937.3	11939.0
57.5°	6710.5	6475.4	7581.6	9898.1	14669.8	23324.9	28453.2	28572.6	26003.7	22276.5	12268.5
60°	3087.4	3133.6	3590.4	5105.1	8942.2	18246.7	26799.6	27555.1	26818.9	22264.9	12351.4
62.5°	2127.6	2085.2	1969.6	2241.3	4078.0	11540.1	22636.9	23916.5	25184.6	21573.1	12021.9
65°	1902.1	1859.7	1636.2	1561.0	1873.2	5030.0	16456.3	18071.3	21205.0	19827.0	11200.9
67.5°	1776.9	1719.1	1487.8	1341.3	1337.5	2002.4	9703.4	11648.0	15727.9	16762.8	9705.4
70°	1645.8	1599.6	1370.2	1208.4	1139.0	1258.5	4264.9	5583.1	10212.2	12079.7	7560.4
72.5°	1514.8	1460.8	1254.6	1081.2	990.6	942.4	1634.3	2125.7	5770.0	7242.4	4634.9
75°	1324.0	1297.0	1121.6	979.0	880.7	761.2	1036.8	1183.3	2759.7	3326.3	2326.1
77.5°	1158.2	1129.3	996.4	855.7	784.4	618.6	736.2	803.6	1164.0	1349.0	1050.3
80°	848.0	876.9	840.3	755.5	699.6	485.7	495.3	551.2	691.9	765.1	641.8
82.5°	537.7	591.6	647.5	582.0	530.0	383.5	343.0	364.2	472.2	501.1	285.2
85°	225.5	229.3	375.8	354.6	302.6	227.4	206.2	217.8	252.5	264.0	133.0
87.5°	86.7	84.8	133.0	123.3	94.4	65.5	65.5	73.2	100.2	92.5	42.4
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°	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6	7396.6
2.5°	7421.6	7284.8	7013.1	6675.8	6429.1	6151.6	5906.9	5731.5	5666.0	5635.1	5577.3
5°	7415.9	7146.1	6583.3	5993.6	5519.5	5033.8	4623.3	4357.4	4334.3	4157.0	4139.6
7.5°	7417.8	7005.4	6109.2	5242.0	4519.3	4022.1	3682.9	3594.2	3488.2	3461.2	3474.7
10°	7423.6	6826.1	5600.4	4498.1	3798.5	3472.8	3345.6	3310.9	3314.8	3326.3	3328.3
12.5°	7431.3	6652.7	5072.4	3933.4	3393.8	3258.9	3245.4	3276.2	3309.0	3334.1	3339.8
15°	7440.9	6454.2	4557.8	3478.6	3191.4	3179.9	3224.2	3276.2	3322.5	3359.1	3364.9
17.5°	7429.4	6222.9	4126.1	3199.1	3079.7	3135.6	3208.8	3274.3	3316.7	3351.4	3355.3
20°	7402.4	5964.7	3709.9	3002.6	3010.3	3100.9	3179.9	3241.5	3287.8	3305.1	3318.6
22.5°	7298.3	5656.3	3347.5	2850.3	2927.4	3052.7	3147.1	3183.7	3131.7	3095.1	3104.7
25°	7121.0	5255.5	3010.3	2727.0	2852.3	2985.2	3081.6	2992.9	2950.5	2935.1	2942.8
27.5°	6899.4	4816.1	2755.9	2597.9	2755.9	2910.1	2883.1	2867.7	2848.4	2823.3	2829.1
30°	6660.4	4386.3	2540.0	2497.6	2651.8	2740.5	2752.0	2777.1	2755.9	2717.3	2732.8
32.5°	6438.8	3981.6	2376.2	2412.9	2578.6	2565.1	2651.8	2680.7	2582.4	2453.3	2459.1
35°	6249.9	3605.8	2252.9	2330.0	2453.3	2459.1	2545.8	2445.6	2339.6	2277.9	2281.8
37.5°	6107.3	3312.9	2172.0	2258.7	2293.4	2366.6	2320.3	2268.3	2254.8	2212.4	2214.4
40°	6022.5	3056.5	2119.9	2202.8	2197.0	2247.1	2098.7	2150.8	2170.0	2156.5	2158.5
42.5°	5937.7	2875.4	2066.0	2125.7	2123.8	2025.5	1992.7	2037.0	2087.2	2092.9	2089.1
45°	5870.2	2734.7	2010.1	2008.1	2046.7	1892.5	1882.9	1909.9	1981.2	2015.8	2013.9
47.5°	5795.1	2617.1	1925.3	1871.3	1882.9	1809.6	1794.2	1805.8	1892.5	1948.4	1963.8
50°	5700.7	2499.6	1819.3	1746.0	1697.9	1732.6	1736.4	1738.3	1825.1	1888.7	1902.1
52.5°	5625.5	2410.9	1697.9	1643.9	1586.1	1663.2	1692.1	1695.9	1748.0	1800.0	1809.6
55°	5669.8	2360.8	1578.4	1539.8	1487.8	1591.9	1647.8	1655.5	1667.0	1705.6	1711.4
57.5°	5802.8	2372.4	1482.0	1431.9	1393.4	1507.1	1601.5	1607.3	1599.6	1645.8	1653.5
60°	5843.3	2366.6	1410.7	1312.4	1289.3	1416.5	1534.0	1545.6	1543.7	1611.1	1624.6
62.5°	5673.7	2293.4	1339.4	1212.2	1196.8	1324.0	1439.6	1485.9	1495.5	1591.9	1609.2
65°	5274.7	2143.0	1245.0	1106.2	1106.2	1225.7	1349.0	1412.6	1439.6	1568.7	1588.0
67.5°	4748.6	1965.7	1148.6	1015.6	1011.8	1131.3	1252.7	1318.2	1360.6	1536.0	1547.5
70°	3941.1	1726.8	1029.1	917.3	917.3	1025.3	1135.1	1214.1	1275.8	1474.3	1474.3
72.5°	2700.0	1435.8	884.6	805.6	807.5	907.7	1019.5	1108.1	1181.4	1351.0	1354.8
75°	1707.5	1121.6	726.6	686.1	693.8	788.2	903.9	996.4	1142.8	1335.5	1341.3
77.5°	907.7	788.2	578.2	568.5	578.2	664.9	794.0	921.2	1146.7	1158.2	1139.0
80°	587.8	558.9	456.7	437.5	441.3	535.8	707.3	874.9	921.2	932.8	890.4
82.5°	319.9	354.6	323.8	304.5	304.5	418.2	603.2	695.7	661.0	549.3	524.2
85°	136.8	165.7	167.7	146.5	140.7	258.2	404.7	379.7	352.7	337.3	333.4
87.5°	38.5	54.0	54.0	40.5	30.8	71.3	80.9	23.1	0.0	1.9	3.9
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)