

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: P455836

Luminaire Tested: **GALN-SA7A-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455836
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-SA7A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32462 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

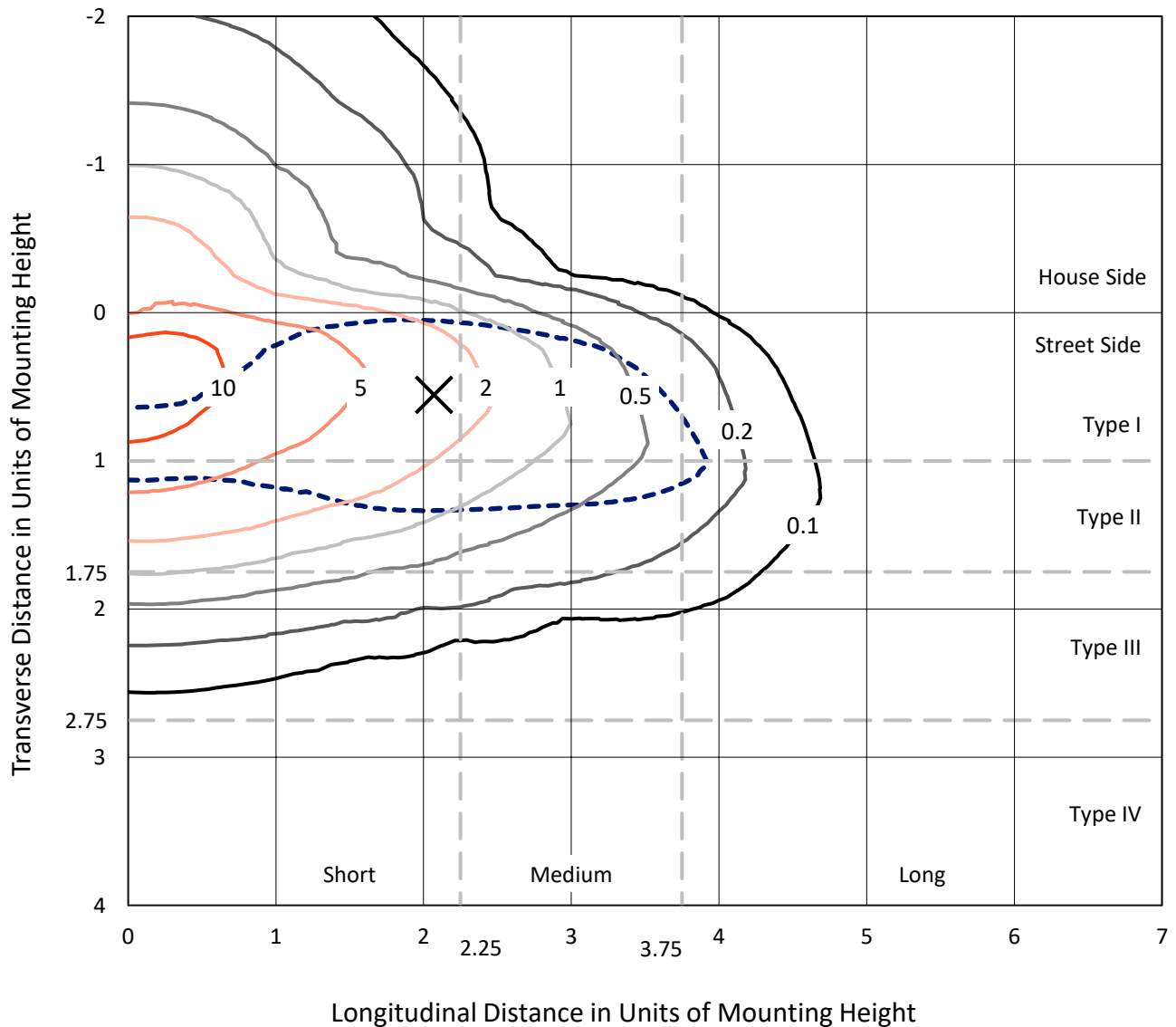
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

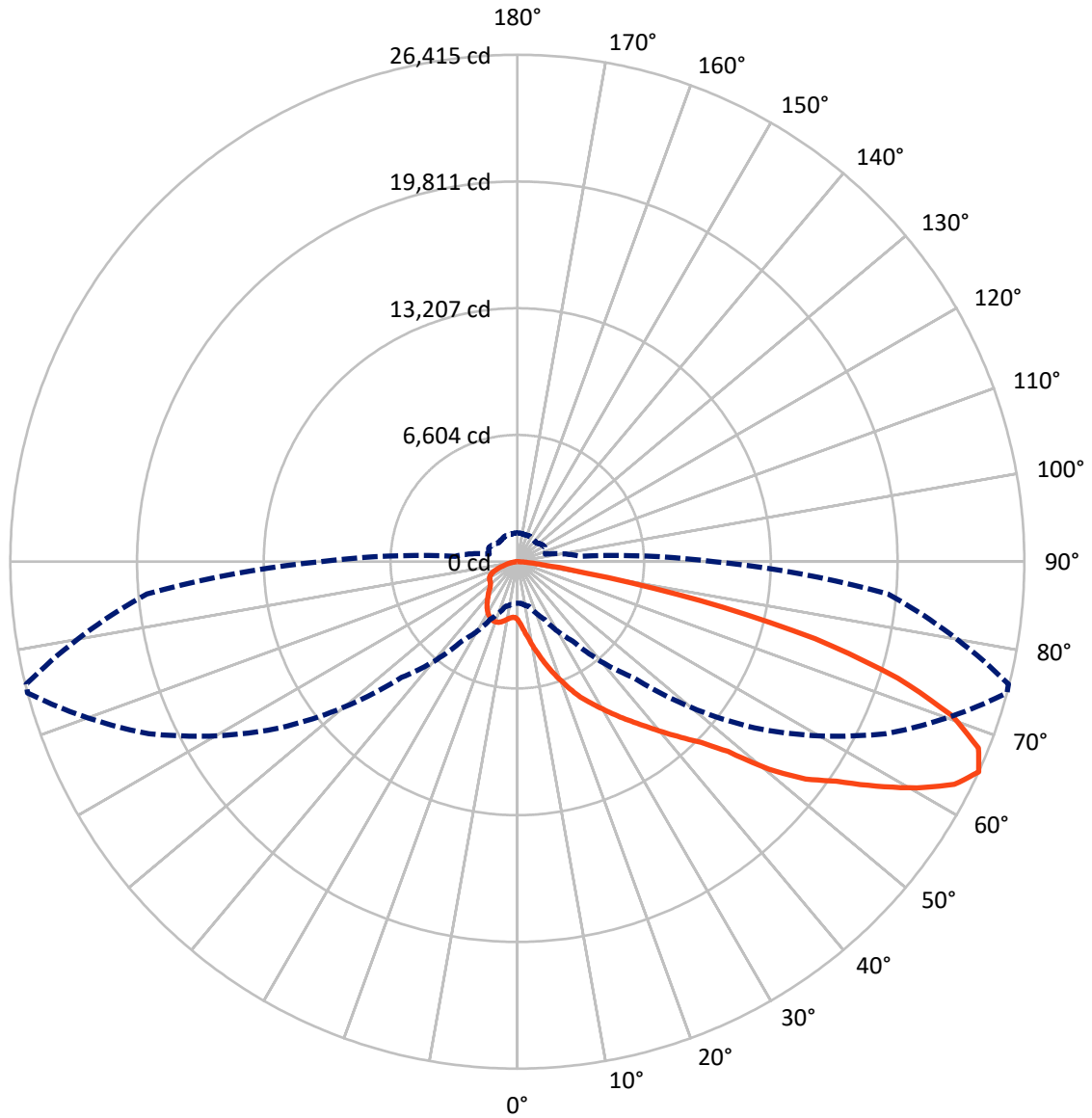
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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
House Side	Lumens	5457.3	0.0	5457.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	27004.7	0.0	27004.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	32462.0	0.0	32462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.5	1.1
10°-20°	1435.3	4.4
20°-30°	2772.6	8.5
30°-40°	4503.5	13.9
40°-50°	6195.0	19.1
50°-60°	7314.2	22.5
60°-70°	6408.4	19.7
70°-80°	3059.4	9.4
80°-90°	407.1	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°	32462.0	100.0
0°-180°	32462.0	100.0

Coefficient of Utilization



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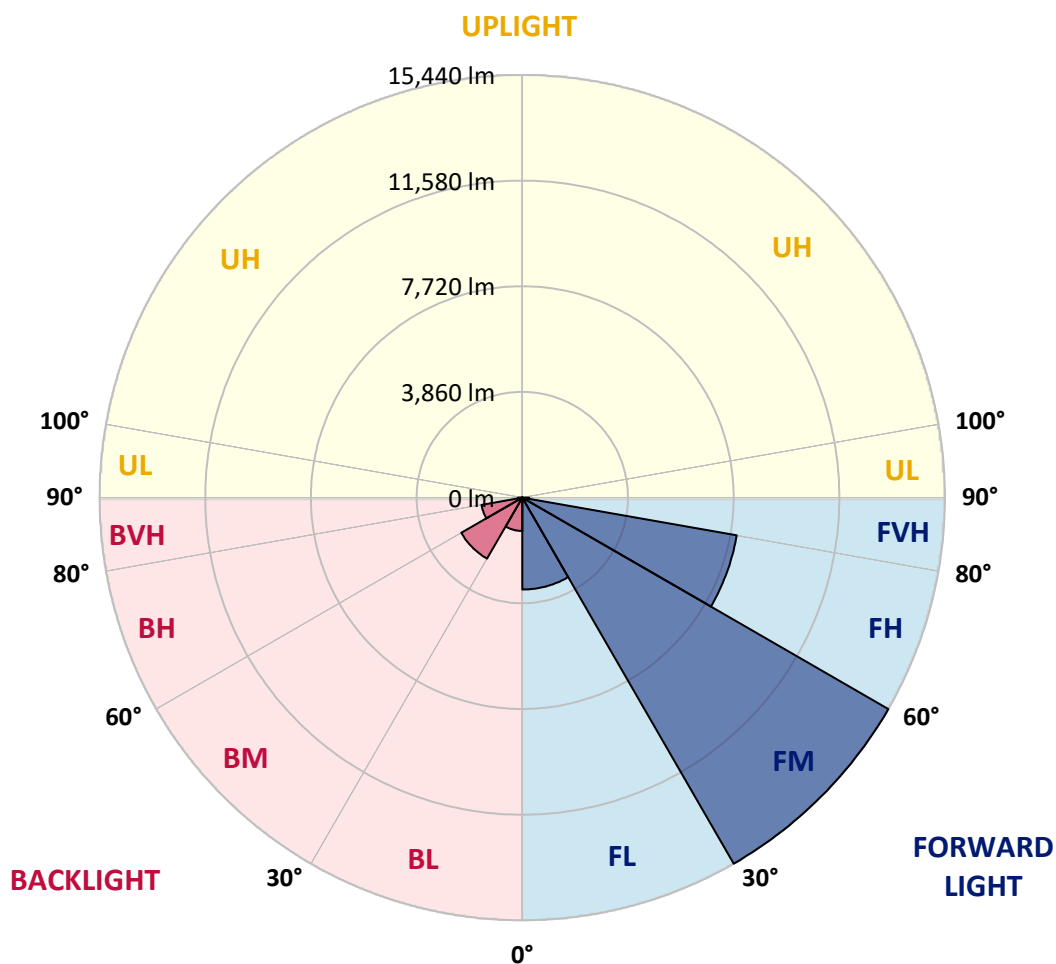
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3356.1	10.3			
FM	(30°-60°)	15439.6	47.6			
FH	(60°-80°)	7954.6	24.5			G4/12000
FVH	(80°-90°)	254.4	0.8			G3/500
BL	(0°-30°)	1218.3	3.8	B3/2500		
BM	(30°-60°)	2573.1	7.9	B3/5000		
BH	(60°-80°)	1513.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	152.7	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1
2.5°	4007.4	3981.0	3952.8	3875.4	3792.6	3699.3	3565.5	3436.9	3266.2	3260.9	3134.1
5°	5118.4	5100.8	4975.8	4903.6	4711.7	4456.4	4239.8	3903.5	3591.9	3554.9	3308.4
7.5°	6139.7	6071.0	6023.5	5893.2	5703.0	5375.5	4956.5	4502.2	3981.0	3931.7	3523.2
10°	6909.1	6902.1	6877.4	6764.7	6622.1	6296.4	5831.5	5180.1	4474.0	4377.2	3783.8
12.5°	7484.9	7490.1	7486.6	7484.9	7382.7	7106.3	6602.7	5916.1	4972.3	4903.6	4084.9
15°	7863.4	7916.2	7937.4	8025.4	8034.2	7849.3	7416.2	6627.4	5534.0	5431.9	4408.9
17.5°	8113.4	8139.9	8238.5	8388.1	8509.6	8476.2	8090.6	7285.9	6108.0	5937.2	4745.2
20°	8352.9	8398.7	8474.4	8678.6	8893.4	8992.0	8720.9	7960.3	6676.7	6567.5	5116.7
22.5°	8851.2	8916.3	8942.7	9046.6	9229.7	9404.1	9280.8	8606.4	7300.0	7152.1	5511.1
25°	9694.6	9763.2	9689.3	9664.6	9724.5	9810.8	9784.4	9215.7	7888.1	7676.8	5884.4
27.5°	10793.3	10802.1	10657.7	10520.4	10372.5	10328.4	10247.4	9756.2	8398.7	8222.6	6259.4
30°	11973.0	11930.7	11691.2	11443.0	11193.0	10946.5	10714.0	10277.4	8967.4	8764.9	6627.4
32.5°	13068.1	13045.2	12779.4	12393.8	11971.2	11738.8	11268.7	10803.8	9576.6	9381.2	7005.9
35°	13888.6	13922.1	13629.8	13209.0	12747.7	12541.7	11948.3	11356.7	10206.9	9993.9	7418.0
37.5°	14471.4	14453.8	14195.0	13830.5	13425.6	13246.0	12742.4	11960.6	10884.8	10680.6	7868.7
40°	14679.2	14668.6	14476.7	14210.8	13953.8	13890.4	13573.5	12612.1	11661.3	11421.9	8411.0
42.5°	14547.1	14570.0	14443.3	14371.1	14323.5	14369.3	14399.2	13466.1	12508.2	12288.1	8999.1
45°	14142.2	14129.9	14112.2	14230.2	14497.8	14798.9	15216.2	14272.5	13429.1	13253.0	9787.9
47.5°	13418.5	13506.6	13550.6	13876.3	14460.9	15174.0	16156.5	15353.6	14765.5	14612.3	10990.5
50°	12406.1	12476.5	12737.1	13316.4	14188.0	15314.8	17075.6	17121.3	16994.6	16707.6	12296.9
52.5°	10825.0	10934.1	11471.2	12532.9	13628.0	15256.7	17631.9	18637.3	18804.6	18589.8	13584.0
55°	9055.4	9208.6	9775.6	11168.3	12856.8	14939.8	18015.8	19515.9	20183.2	19984.3	14823.6
57.5°	7322.9	7484.9	8067.7	9416.4	11511.7	14239.0	18267.6	20494.9	22060.2	21801.4	16366.0
60°	5488.2	5657.2	6157.3	7546.5	9596.0	12869.2	18096.8	21343.6	23935.4	23824.4	17910.1
62.5°	3540.8	3727.5	4162.4	5312.1	7375.7	10997.5	17183.0	21811.9	25558.8	25424.9	19037.0
65°	2156.9	2178.0	2417.5	3297.8	5048.0	8514.9	15093.0	21190.4	26414.5	26374.0	19380.4
67.5°	1394.5	1428.0	1537.1	1975.5	3026.7	5914.3	12068.0	19139.1	25914.4	25900.3	18670.8
70°	1177.9	1188.5	1237.8	1332.9	1759.0	3586.6	8474.4	15869.5	24014.6	24014.6	16964.6
72.5°	1052.9	1067.0	1084.6	1114.5	1255.4	2031.9	5056.8	12353.3	20734.4	20871.7	14439.7
75°	956.1	952.6	963.1	968.4	1070.5	1327.6	2614.7	9136.4	16040.2	15765.6	10457.0
77.5°	818.7	824.0	818.7	841.6	945.5	1010.7	1327.6	6130.9	9721.0	9365.3	5248.7
80°	672.6	681.4	690.2	704.3	808.2	767.7	797.6	2794.3	3595.4	3519.7	1621.6
82.5°	505.3	517.7	531.7	565.2	635.6	507.1	503.6	1193.8	1297.7	1188.5	596.9
85°	204.2	241.2	364.5	397.9	399.7	278.2	309.9	498.3	530.0	517.7	234.2
87.5°	47.5	56.3	118.0	177.8	163.7	103.9	114.4	162.0	184.9	170.8	79.2
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°	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1	3016.1
2.5°	3076.0	3014.4	2908.7	2827.7	2769.6	2718.6	2686.9	2667.5	2660.5	2658.7	2660.5
5°	3179.9	3070.7	2903.4	2797.8	2739.7	2706.2	2686.9	2685.1	2686.9	2688.6	2683.4
7.5°	3322.5	3165.8	2947.5	2848.9	2804.8	2780.2	2771.4	2767.9	2769.6	2767.9	2767.9
10°	3512.7	3297.8	3033.7	2931.6	2894.6	2866.5	2852.4	2843.6	2836.5	2829.5	2826.0
12.5°	3722.2	3444.0	3127.1	3028.5	2975.6	2931.6	2899.9	2877.0	2861.2	2845.3	2841.8
15°	3956.4	3598.9	3230.9	3093.6	3017.9	2952.7	2898.2	2861.2	2833.0	2810.1	2808.4
17.5°	4180.0	3745.1	3301.4	3123.5	3012.6	2921.1	2848.9	2797.8	2762.6	2732.7	2729.1
20°	4419.4	3884.2	3333.1	3104.2	2959.8	2848.9	2753.8	2692.2	2651.7	2618.2	2612.9
22.5°	4660.7	4002.1	3329.5	3042.5	2868.2	2737.9	2637.6	2572.4	2524.9	2491.4	2479.1
25°	4891.3	4097.2	3285.5	2943.9	2741.5	2605.9	2503.8	2443.9	2401.6	2361.1	2361.1
27.5°	5099.1	4153.6	3202.8	2824.2	2611.2	2468.5	2387.5	2333.0	2294.2	2267.8	2252.0
30°	5303.3	4180.0	3090.1	2672.8	2473.8	2352.3	2287.2	2255.5	2220.3	2190.3	2186.8
32.5°	5486.4	4174.7	2949.2	2524.9	2343.5	2257.3	2230.8	2206.2	2169.2	2127.0	2116.4
35°	5664.3	4139.5	2782.0	2362.9	2234.4	2200.9	2208.0	2172.7	2105.8	2053.0	2044.2
37.5°	5857.9	4076.1	2598.8	2230.8	2142.8	2174.5	2192.1	2114.6	2005.5	1922.7	1903.3
40°	6081.6	4003.9	2408.7	2098.8	2070.6	2149.9	2149.9	2007.2	1857.6	1806.5	1792.4
42.5°	6343.9	3944.0	2250.2	1987.9	2010.8	2090.0	2081.2	1864.6	1803.0	1776.6	1769.5
45°	6759.4	3922.9	2086.5	1891.0	1961.5	2019.6	1947.4	1815.3	1780.1	1759.0	1751.9
47.5°	7416.2	3947.6	1942.1	1818.8	1905.1	1949.1	1797.7	1781.9	1757.2	1727.3	1723.8
50°	8025.4	3924.7	1840.0	1778.3	1855.8	1864.6	1736.1	1741.4	1727.3	1693.8	1686.8
52.5°	8523.7	3852.5	1774.8	1757.2	1813.6	1716.7	1678.0	1697.3	1692.1	1649.8	1642.8
55°	9071.3	3808.5	1743.1	1757.2	1785.4	1588.2	1623.4	1651.6	1644.5	1614.6	1612.8
57.5°	9735.1	3817.3	1720.2	1762.5	1757.2	1523.0	1568.8	1602.3	1600.5	1591.7	1591.7
60°	10414.7	3820.8	1685.0	1760.7	1723.8	1472.0	1512.5	1560.0	1563.5	1568.8	1568.8
62.5°	10640.1	3667.6	1616.3	1729.0	1649.8	1422.7	1459.6	1524.8	1521.3	1535.4	1537.1
65°	10219.3	3243.3	1514.2	1656.8	1554.7	1387.5	1419.1	1479.0	1459.6	1496.6	1503.7
67.5°	9301.9	2683.4	1355.8	1526.6	1449.1	1350.5	1392.7	1415.6	1380.4	1452.6	1454.4
70°	8039.5	2095.3	1155.0	1341.7	1329.4	1311.7	1371.6	1336.4	1287.1	1375.1	1357.5
72.5°	6722.5	1600.5	922.6	1096.9	1169.1	1253.6	1334.6	1234.3	1165.6	1192.0	1160.3
75°	5049.8	1183.2	741.3	859.2	973.7	1170.9	1301.2	1111.0	1005.4	980.7	973.7
77.5°	2574.2	773.0	554.6	642.7	730.7	1058.2	1255.4	966.6	832.8	794.1	776.5
80°	919.1	480.7	390.9	443.7	493.0	910.3	1096.9	799.4	646.2	639.1	646.2
82.5°	426.1	309.9	262.3	290.5	292.3	607.5	836.3	596.9	491.2	746.5	630.3
85°	183.1	154.9	147.9	144.4	133.8	271.2	470.1	320.5	500.0	223.6	206.0
87.5°	54.6	61.6	54.6	40.5	29.9	29.9	47.5	17.6	12.3	8.8	8.8
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)