

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: P456739

Luminaire Tested: **GALN-SA8A-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34416 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

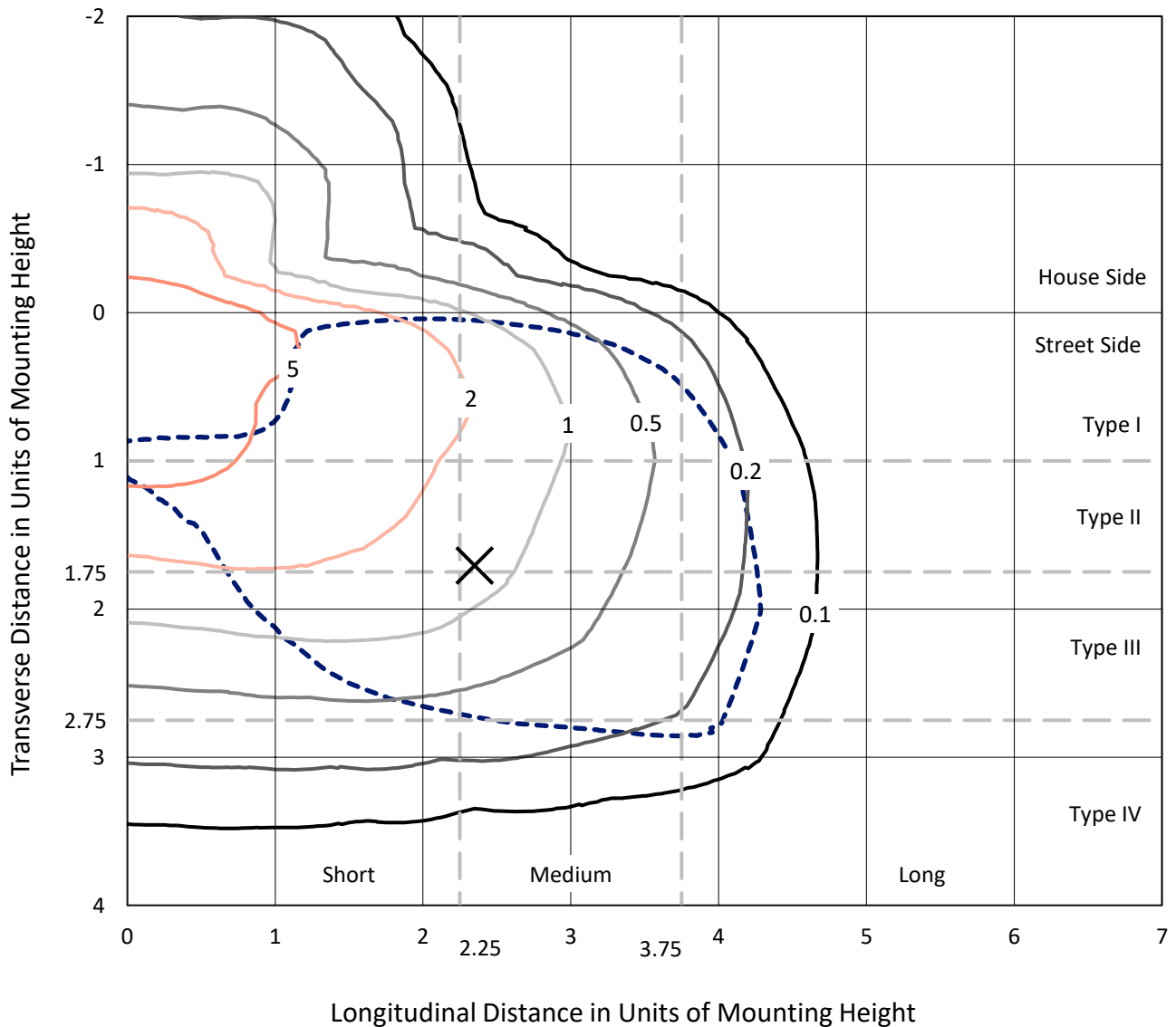
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

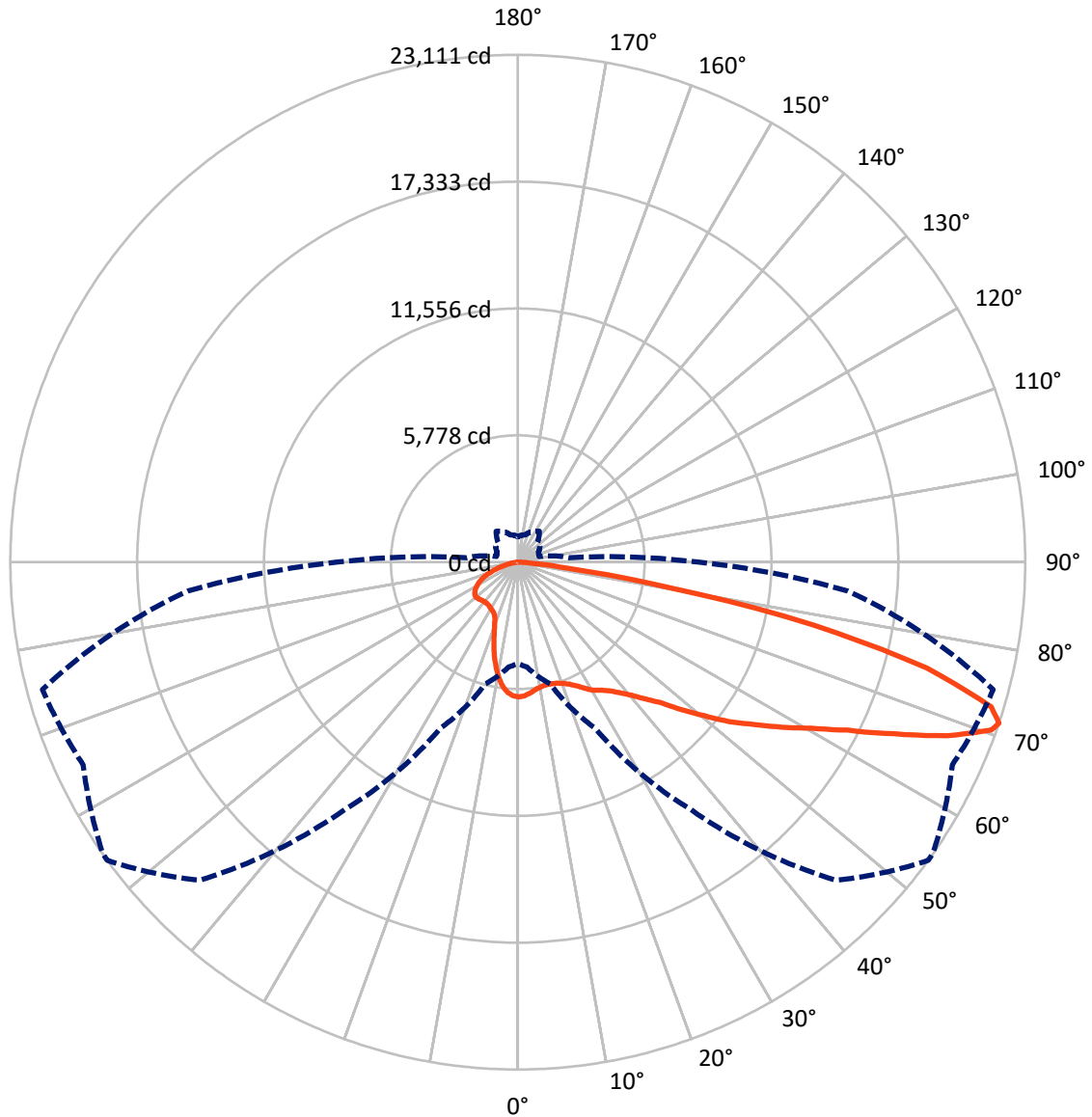
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6213.6	0.0	6213.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28202.4	0.0	28202.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	34416.0	0.0	34416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.2	1.6
10°-20°	1444.9	4.2
20°-30°	2405.8	7.0
30°-40°	3557.3	10.3
40°-50°	5010.6	14.6
50°-60°	6709.5	19.5
60°-70°	8456.8	24.6
70°-80°	5776.0	16.8
80°-90°	508.0	1.5
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°	34416.0	100.0
0°-180°	34416.0	100.0

Coefficient of Utilization



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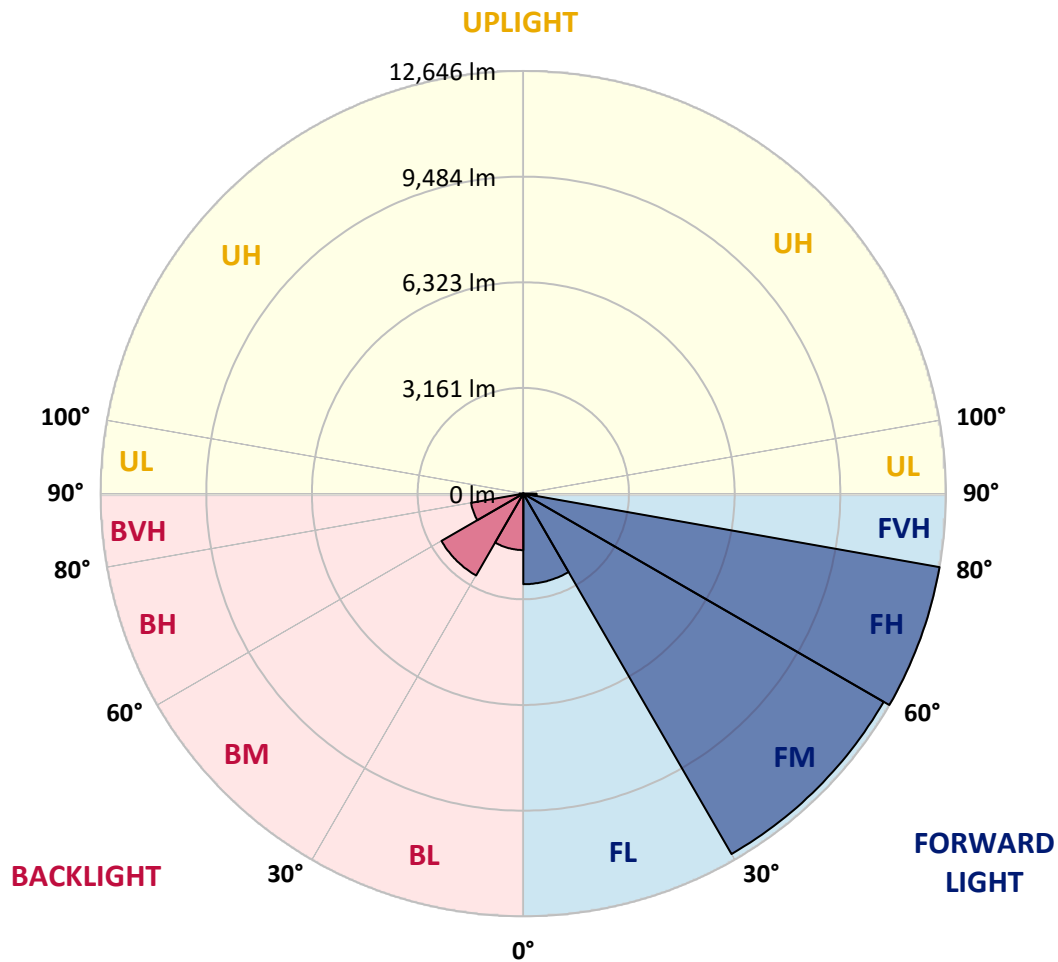
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2709.1	7.9			
FM (30°-60°)	12450.5	36.2			
FH (60°-80°)	12645.8	36.7			G5
FVH (80°-90°)	397.0	1.2			G3/500
BL (0°-30°)	1688.7	4.9	B3/2500		
BM (30°-60°)	2827.0	8.2	B3/5000		
BH (60°-80°)	1586.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	110.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3
2.5°	5932.1	5960.0	5967.4	5986.0	6025.1	6056.7	6088.3	6084.6	6129.2	6147.8	6164.5
5°	5668.1	5675.6	5703.5	5740.6	5809.4	5896.8	5982.3	5984.2	6093.8	6181.2	6224.0
7.5°	5474.8	5499.0	5517.6	5556.6	5629.1	5723.9	5859.6	5870.8	6066.0	6238.9	6329.9
10°	5348.4	5376.3	5396.7	5445.1	5517.6	5623.5	5770.4	5790.8	6045.5	6329.9	6489.8
12.5°	5233.1	5261.0	5279.6	5342.8	5437.6	5567.7	5733.2	5757.4	6053.0	6435.9	6664.6
15°	5303.8	5326.1	5318.6	5337.2	5400.4	5549.2	5748.1	5772.2	6080.8	6538.2	6837.5
17.5°	5617.9	5636.5	5575.2	5504.5	5474.8	5584.5	5794.5	5820.6	6136.6	6644.1	7014.1
20°	6080.8	6131.0	5997.2	5839.2	5696.0	5710.9	5891.2	5919.1	6214.7	6750.1	7194.4
22.5°	6683.2	6720.3	6556.7	6296.5	6032.5	5896.8	6036.2	6053.0	6331.8	6887.6	7391.4
25°	7391.4	7413.7	7186.9	6852.3	6471.2	6214.7	6235.1	6264.9	6525.1	7043.8	7566.2
27.5°	8079.3	8149.9	7887.8	7478.8	6976.9	6549.3	6508.4	6527.0	6735.2	7131.2	7687.0
30°	8895.4	8889.8	8612.8	8138.8	7495.5	6913.7	6766.8	6763.1	6848.6	7173.9	7774.4
32.5°	9546.0	9622.3	9350.8	8834.0	8088.6	7291.1	6945.3	6937.8	6936.0	7248.3	7904.5
35°	10285.9	10297.1	10048.0	9527.4	8729.9	7765.1	7194.4	7157.2	7114.4	7408.2	8081.1
37.5°	10947.7	10999.8	10771.1	10187.4	9360.1	8257.7	7536.4	7512.3	7382.1	7685.2	8363.7
40°	11464.5	11503.6	11366.0	10810.2	9981.0	8789.4	7971.5	7926.8	7768.8	8138.8	8741.1
42.5°	11633.7	11713.6	11767.6	11494.3	10694.9	9419.6	8506.8	8451.1	8330.2	8826.6	9176.1
45°	11646.7	11773.1	12057.6	12070.6	11412.5	10174.4	9131.5	9092.4	9083.1	9707.8	9787.7
47.5°	11548.2	11676.5	12154.2	12412.6	12052.0	10936.6	10033.1	9971.8	9977.3	10797.2	10473.7
50°	11310.2	11462.7	12042.7	12632.0	12552.1	11728.5	10984.9	10964.5	11079.7	12040.8	11185.7
52.5°	10862.2	11046.3	11927.4	12769.6	12923.9	12410.8	12066.9	12009.2	12301.1	13390.5	11964.6
55°	9622.3	9899.3	11505.4	12845.8	13277.1	13063.3	13041.0	13145.1	13531.8	14862.8	12821.6
57.5°	8975.3	9183.5	10588.9	12858.8	13723.2	13821.8	14178.7	14204.7	14881.4	16426.2	13790.2
60°	8622.1	8806.2	10087.0	12773.3	14346.0	14760.6	15342.4	15435.4	16199.4	18119.8	14794.0
62.5°	8313.5	8471.5	9785.9	12477.7	15048.7	16153.0	16850.1	16894.7	17696.0	19990.0	15784.9
65°	7586.6	7767.0	9179.8	12182.1	15654.8	17893.0	18850.4	18798.4	19289.1	21603.6	16405.8
67.5°	6606.9	6835.6	8047.7	11161.5	15954.1	19794.8	21103.5	21038.5	20861.9	22661.4	16584.3
70°	5355.8	5478.5	6599.5	9397.3	14758.7	20793.1	22882.6	22813.8	21836.0	22800.8	15740.3
71°	4608.5	4800.0	5746.2	8347.0	13764.1	20488.2	23111.3	23092.7	21837.8	22416.0	15104.5
72.5°	3597.2	3714.3	4550.9	6467.5	11698.8	18755.6	22546.1	22616.8	21363.8	21347.1	13793.9
75°	2275.4	2327.5	2855.4	3807.3	6419.2	13282.7	19246.4	19437.9	18969.4	17472.9	10258.0
77.5°	1321.8	1388.7	1710.3	2243.8	2773.6	7209.3	13771.6	13979.8	13180.4	9620.4	4199.5
80°	769.6	844.0	1126.6	1303.2	1273.4	2675.1	7012.2	7367.3	5707.2	2429.7	1178.6
82.5°	427.6	477.8	791.9	793.8	678.5	873.7	2206.6	2308.9	1628.5	979.7	481.5
85°	310.5	351.4	511.2	462.9	325.3	375.5	767.8	805.0	658.1	412.7	156.2
87.5°	109.7	156.2	280.7	223.1	89.2	78.1	221.2	180.3	167.3	115.3	35.3
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°	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3	6140.3
2.5°	6173.8	6177.5	6158.9	6125.5	6092.0	6049.2	6000.9	5963.7	5947.0	5945.1	5943.3
5°	6240.7	6250.0	6179.4	6075.3	5960.0	5818.7	5697.9	5560.3	5525.0	5469.2	5486.0
7.5°	6348.5	6343.0	6203.5	5982.3	5712.8	5413.4	5160.6	5013.8	4861.3	4818.6	4820.4
10°	6502.8	6467.5	6203.5	5792.7	5342.8	4898.5	4545.3	4322.2	4201.4	4101.0	4063.8
12.5°	6666.4	6577.2	6144.0	5526.8	4866.9	4322.2	3943.0	3641.8	3563.7	3481.9	3483.8
15°	6822.6	6673.9	6026.9	5153.2	4353.8	3706.9	3338.8	3158.5	3134.3	3143.6	3141.7
17.5°	6963.9	6742.6	5848.5	4736.8	3755.2	3178.9	2983.7	2996.7	3061.8	3108.3	3113.8
20°	7107.0	6783.5	5582.6	4179.1	3190.1	2859.2	2866.6	2968.8	3067.4	3130.6	3139.9
22.5°	7242.7	6802.1	5270.3	3639.9	2781.1	2723.5	2833.1	2942.8	3039.5	3100.8	3110.1
25°	7332.0	6759.4	4827.9	3076.7	2580.3	2675.1	2790.4	2883.3	2965.1	3028.3	3043.2
27.5°	7356.1	6621.8	4279.5	2621.2	2487.4	2628.6	2734.6	2803.4	2866.6	2926.1	2937.2
30°	7343.1	6419.2	3677.1	2353.5	2433.4	2574.7	2656.5	2706.7	2782.9	2829.4	2838.7
32.5°	7322.7	6183.1	3048.8	2210.4	2388.8	2524.5	2572.9	2617.5	2615.6	2597.0	2610.1
35°	7330.1	5900.5	2539.4	2124.9	2349.8	2487.4	2528.3	2472.5	2312.6	2305.2	2297.7
37.5°	7369.1	5621.7	2169.5	2065.4	2329.3	2481.8	2504.1	2247.5	2106.3	2041.2	2024.5
40°	7469.5	5296.3	1925.9	2020.7	2327.5	2524.5	2394.4	2134.1	1862.7	1736.3	1727.0
42.5°	7603.4	4976.6	1777.2	1992.9	2349.8	2589.6	2349.8	1974.3	1678.7	1604.3	1593.2
45°	7802.3	4610.4	1695.4	1979.9	2383.3	2613.8	2334.9	1857.2	1604.3	1544.8	1544.8
47.5°	8027.2	4260.9	1650.8	1970.6	2426.0	2597.0	2202.9	1820.0	1569.0	1576.4	1611.8
50°	8250.3	3957.8	1617.3	1950.1	2463.2	2587.7	2149.0	1818.1	1578.3	1673.1	1736.3
52.5°	8508.7	3744.1	1576.4	1916.6	2463.2	2528.3	2132.3	1855.3	1604.3	1632.2	1660.1
55°	8821.0	3677.1	1524.4	1844.1	2418.6	2379.5	2123.0	1909.2	1622.9	1557.9	1569.0
57.5°	9233.7	3785.0	1474.2	1753.1	2316.3	2225.2	2119.3	1924.1	1580.2	1526.3	1515.1
60°	9713.3	3998.7	1459.3	1660.1	2176.9	2093.3	2097.0	1881.3	1520.7	1464.9	1474.2
62.5°	10049.8	4127.0	1450.0	1589.5	2024.5	1948.2	2043.1	1829.3	1494.6	1446.3	1455.6
65°	10049.8	3970.9	1364.5	1481.6	1827.4	1773.5	1978.0	1764.2	1461.2	1405.4	1396.1
67.5°	9668.7	3515.4	1234.4	1319.9	1609.9	1574.6	1886.9	1686.1	1411.0	1368.2	1345.9
70°	8676.0	2665.8	1070.8	1130.3	1334.8	1366.4	1769.8	1580.2	1327.3	1275.3	1241.8
71°	8239.2	2321.9	1002.0	1033.6	1228.8	1275.3	1714.0	1535.5	1290.2	1215.8	1156.3
72.5°	7397.0	1955.7	897.9	910.9	1050.3	1134.0	1596.9	1450.0	1219.5	1113.5	1046.6
75°	5619.8	1427.7	723.2	715.7	777.1	899.8	1351.5	1292.0	1068.9	925.8	886.7
77.5°	2427.9	777.1	541.0	546.6	528.0	682.3	1063.4	1109.8	916.5	752.9	717.6
80°	736.2	448.0	369.9	377.4	353.2	457.3	749.2	870.0	736.2	585.6	537.3
82.5°	377.4	267.7	252.8	249.1	224.9	258.4	453.6	594.9	526.1	366.2	323.5
85°	163.6	143.1	124.6	120.8	106.0	93.0	161.7	297.4	278.9	204.5	195.2
87.5°	40.9	37.2	24.2	22.3	13.0	1.9	0.0	0.0	0.0	0.0	0.0
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)