

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: P456184

Luminaire Tested: **GALN-SA7B-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456184
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-SA7B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 32097 lumens
Efficiency: N/A
Efficacy: 112.2 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

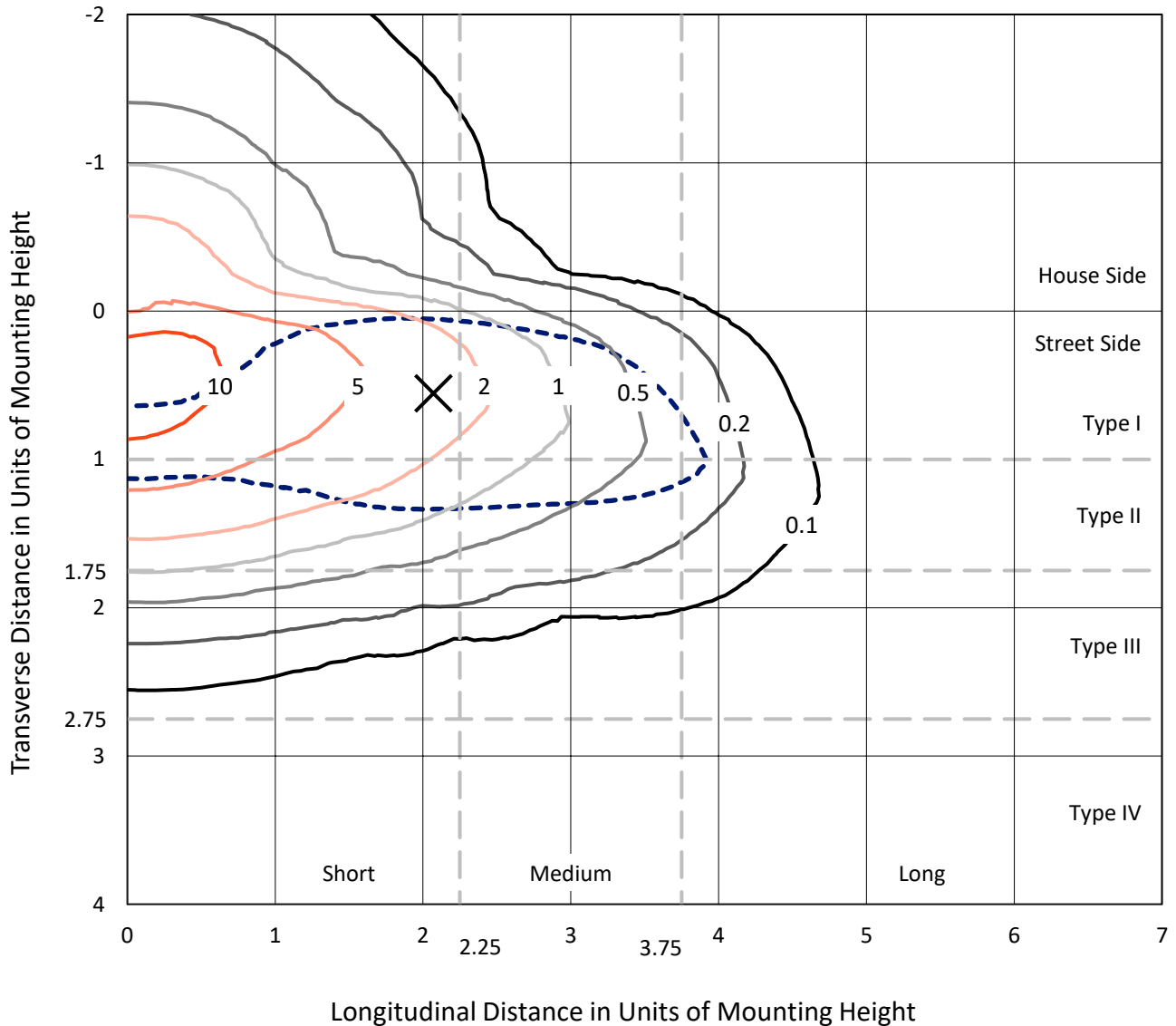
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

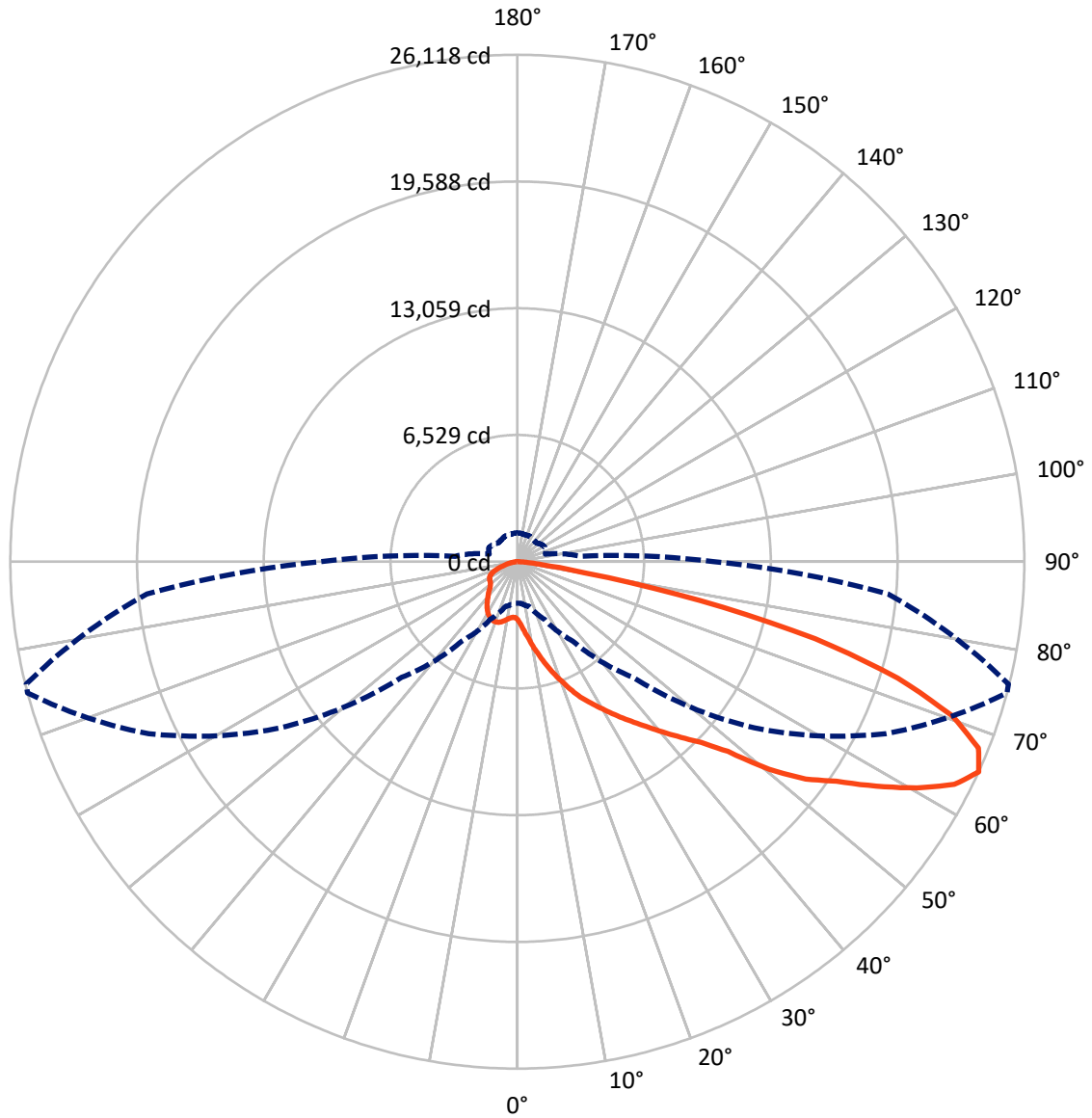
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	5395.9	0.0	5395.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	26701.1	0.0	26701.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	32097.0	0.0	32097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.3	1.1
10°-20°	1419.2	4.4
20°-30°	2741.4	8.5
30°-40°	4452.9	13.9
40°-50°	6125.3	19.1
50°-60°	7231.9	22.5
60°-70°	6336.4	19.7
70°-80°	3025.0	9.4
80°-90°	402.5	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°	32097.0	100.0
0°-180°	32097.0	100.0

Coefficient of Utilization



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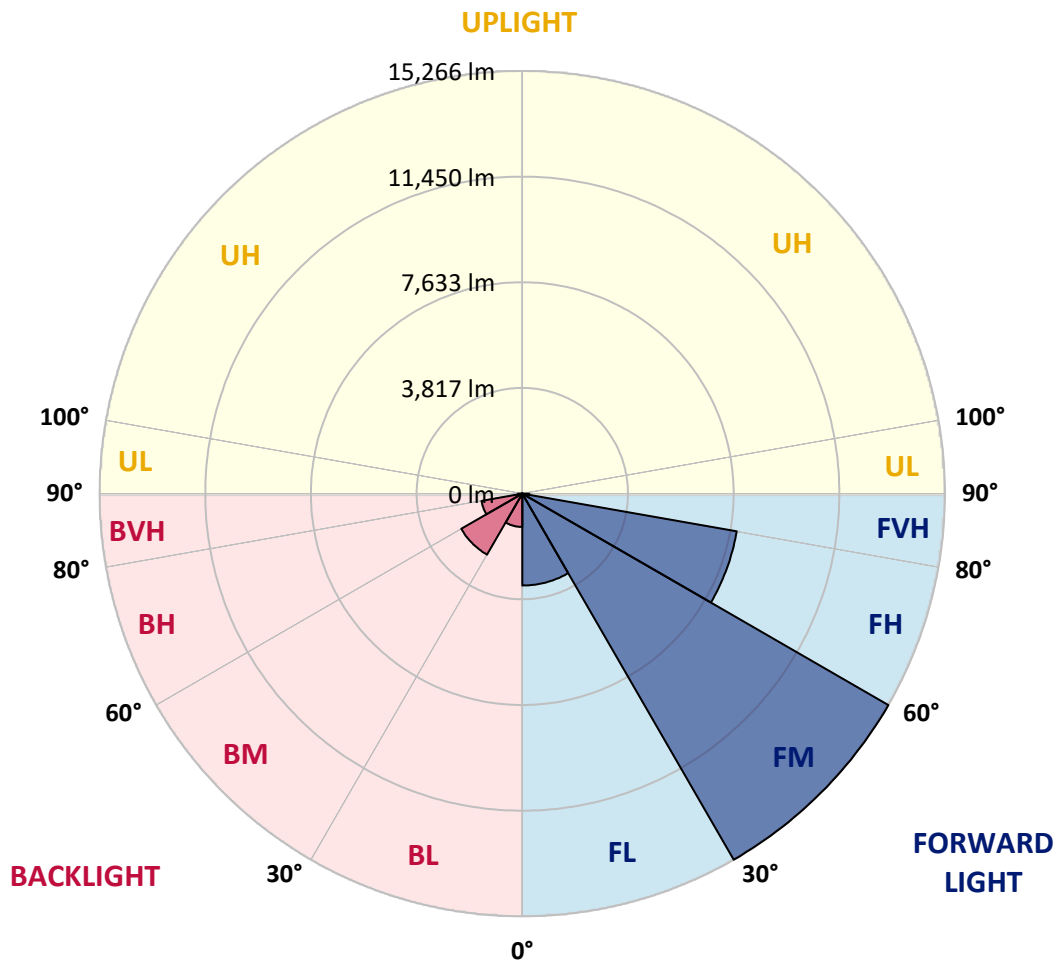
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3318.3	10.3			
FM (30°-60°)	15266.0	47.6			
FH (60°-80°)	7865.2	24.5			G4/12000
FVH (80°-90°)	251.5	0.8			G3/500
BL (0°-30°)	1204.6	3.8	B3/2500		
BM (30°-60°)	2544.1	7.9	B3/5000		
BH (60°-80°)	1496.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	151.0	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°	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2
2.5°	3962.4	3936.2	3908.4	3831.8	3750.0	3657.7	3525.4	3398.3	3229.4	3224.2	3098.9
5°	5060.9	5043.5	4919.9	4848.5	4658.7	4406.3	4192.2	3859.6	3551.5	3514.9	3271.2
7.5°	6070.6	6002.7	5955.7	5826.9	5638.9	5315.1	4900.7	4451.6	3936.2	3887.5	3483.6
10°	6831.4	6824.5	6800.1	6688.7	6547.6	6225.6	5766.0	5121.8	4423.7	4328.0	3741.3
12.5°	7400.7	7405.9	7402.4	7400.7	7299.7	7026.4	6528.5	5849.5	4916.4	4848.5	4039.0
15°	7775.0	7827.2	7848.1	7935.2	7943.9	7761.1	7332.8	6552.9	5471.7	5370.8	4359.3
17.5°	8022.2	8048.3	8145.8	8293.8	8413.9	8380.8	7999.6	7204.0	6039.3	5870.4	4691.8
20°	8259.0	8304.2	8379.1	8581.1	8793.4	8890.9	8622.8	7870.8	6601.6	6493.7	5059.1
22.5°	8751.7	8816.1	8842.2	8944.9	9126.0	9298.3	9176.5	8509.7	7217.9	7071.7	5449.1
25°	9585.6	9653.5	9580.3	9556.0	9615.2	9700.5	9674.4	9112.0	7799.4	7590.5	5818.2
27.5°	10671.9	10680.6	10537.9	10402.1	10255.8	10212.3	10132.2	9646.5	8304.2	8130.2	6189.0
30°	11838.3	11796.6	11559.8	11314.3	11067.1	10823.4	10593.6	10161.8	8866.6	8666.4	6552.9
32.5°	12921.2	12898.6	12635.7	12254.4	11836.6	11606.8	11142.0	10682.4	9468.9	9275.7	6927.2
35°	13732.5	13765.6	13476.6	13060.5	12604.3	12400.7	11814.0	11229.0	10092.2	9881.5	7334.5
37.5°	14308.7	14291.3	14035.4	13675.0	13274.6	13097.0	12599.1	11826.2	10762.4	10560.5	7780.2
40°	14514.2	14503.7	14313.9	14051.1	13796.9	13734.2	13420.8	12470.3	11530.2	11293.4	8316.4
42.5°	14383.6	14406.2	14280.9	14209.5	14162.5	14207.7	14237.3	13314.6	12367.6	12150.0	8897.9
45°	13983.2	13971.0	13953.6	14070.2	14334.8	14632.5	15045.1	14112.0	13278.1	13104.0	9677.8
47.5°	13267.6	13354.7	13398.2	13720.3	14298.3	15003.4	15974.8	15180.9	14599.5	14448.0	10866.9
50°	12266.6	12336.2	12593.9	13166.7	14028.4	15142.6	16883.6	16928.8	16803.5	16519.7	12158.7
52.5°	10703.3	10811.2	11342.2	12392.0	13474.8	15085.2	17433.7	18427.8	18593.2	18380.8	13431.3
55°	8953.6	9105.1	9665.7	11042.7	12712.3	14771.8	17813.2	19296.5	19956.3	19759.6	14656.9
57.5°	7240.5	7400.7	7977.0	9310.5	11382.2	14078.9	18062.2	20264.4	21812.1	21556.2	16182.0
60°	5426.5	5593.6	6088.0	7461.6	9488.1	12724.5	17893.3	21103.6	23666.2	23556.6	17708.8
62.5°	3501.0	3685.6	4115.6	5252.4	7292.8	10873.9	16989.8	21566.7	25271.4	25139.1	18823.0
65°	2132.6	2153.5	2390.3	3260.8	4991.3	8419.1	14923.3	20952.1	26117.5	26077.4	19162.4
67.5°	1378.8	1411.9	1519.8	1953.3	2992.7	5847.8	11932.3	18923.9	25623.0	25609.1	18460.8
70°	1164.7	1175.1	1223.9	1317.9	1739.2	3546.3	8379.1	15691.0	23744.6	23744.6	16773.9
72.5°	1041.1	1055.0	1072.4	1102.0	1241.3	2009.0	5000.0	12214.4	20501.2	20637.0	14277.4
75°	945.3	941.8	952.3	957.5	1058.5	1312.7	2585.3	9033.7	15859.9	15588.3	10339.4
77.5°	809.5	814.8	809.5	832.2	934.9	999.3	1312.7	6061.9	9611.7	9260.0	5189.7
80°	665.0	673.7	682.4	696.4	799.1	759.0	788.6	2762.9	3555.0	3480.1	1603.4
82.5°	499.6	511.8	525.8	558.8	628.5	501.4	497.9	1180.4	1283.1	1175.1	590.2
85°	201.9	238.5	360.4	393.5	395.2	275.1	306.4	492.7	524.0	511.8	231.5
87.5°	47.0	55.7	116.6	175.8	161.9	102.7	113.2	160.2	182.8	168.9	78.3
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°	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2	2982.2
2.5°	3041.4	2980.5	2876.0	2795.9	2738.5	2688.0	2656.7	2637.5	2630.5	2628.8	2630.5
5°	3144.1	3036.2	2870.8	2766.3	2708.9	2675.8	2656.7	2654.9	2656.7	2658.4	2653.2
7.5°	3285.1	3130.2	2914.3	2816.8	2773.3	2748.9	2740.2	2736.7	2738.5	2736.7	2736.7
10°	3473.2	3260.8	2999.6	2898.7	2862.1	2834.2	2820.3	2811.6	2804.6	2797.7	2794.2
12.5°	3680.3	3405.3	3091.9	2994.4	2942.2	2898.7	2867.3	2844.7	2829.0	2813.3	2809.9
15°	3911.9	3558.5	3194.6	3058.8	2984.0	2919.5	2865.6	2829.0	2801.2	2778.5	2776.8
17.5°	4133.0	3703.0	3264.2	3088.4	2978.7	2888.2	2816.8	2766.3	2731.5	2701.9	2698.4
20°	4369.7	3840.5	3295.6	3069.3	2926.5	2816.8	2722.8	2661.9	2621.8	2588.8	2583.5
22.5°	4608.2	3957.1	3292.1	3008.3	2836.0	2707.1	2607.9	2543.5	2496.5	2463.4	2451.2
25°	4836.3	4051.1	3248.6	2910.8	2710.6	2576.6	2475.6	2416.4	2374.6	2334.6	2334.6
27.5°	5041.7	4106.9	3166.8	2792.5	2581.8	2440.8	2360.7	2306.7	2268.4	2242.3	2226.7
30°	5243.7	4133.0	3055.3	2642.7	2446.0	2325.9	2261.5	2230.1	2195.3	2165.7	2162.2
32.5°	5424.7	4127.8	2916.1	2496.5	2317.2	2231.9	2205.8	2181.4	2144.8	2103.0	2092.6
35°	5600.6	4092.9	2750.7	2336.3	2209.2	2176.2	2183.1	2148.3	2082.2	2029.9	2021.2
37.5°	5792.1	4030.3	2569.6	2205.8	2118.7	2150.1	2167.5	2090.9	1982.9	1901.1	1881.9
40°	6013.2	3958.9	2381.6	2075.2	2047.3	2125.7	2125.7	1984.7	1836.7	1786.2	1772.3
42.5°	6272.6	3899.7	2224.9	1965.5	1988.1	2066.5	2057.8	1843.6	1782.7	1756.6	1749.6
45°	6683.4	3878.8	2063.0	1869.8	1939.4	1996.8	1925.5	1794.9	1760.1	1739.2	1732.2
47.5°	7332.8	3903.2	1920.2	1798.4	1883.7	1927.2	1777.5	1761.8	1737.5	1707.9	1704.4
50°	7935.2	3880.5	1819.3	1758.3	1834.9	1843.6	1716.6	1721.8	1707.9	1674.8	1667.8
52.5°	8427.9	3809.2	1754.9	1737.5	1793.2	1697.4	1659.1	1678.3	1673.0	1631.3	1624.3
55°	8969.3	3765.6	1723.5	1737.5	1765.3	1570.3	1605.1	1633.0	1626.0	1596.4	1594.7
57.5°	9625.6	3774.3	1700.9	1742.7	1737.5	1505.9	1551.2	1584.2	1582.5	1573.8	1573.8
60°	10297.6	3777.8	1666.1	1740.9	1704.4	1455.4	1495.5	1542.5	1545.9	1551.2	1551.2
62.5°	10520.5	3626.4	1598.2	1709.6	1631.3	1406.7	1443.2	1507.6	1504.2	1518.1	1519.8
65°	10104.4	3206.8	1497.2	1638.2	1537.2	1371.9	1403.2	1462.4	1443.2	1479.8	1486.8
67.5°	9197.3	2653.2	1340.5	1509.4	1432.8	1335.3	1377.1	1399.7	1364.9	1436.3	1438.0
70°	7949.1	2071.7	1142.1	1326.6	1314.4	1297.0	1356.2	1321.4	1272.6	1359.7	1342.3
72.5°	6646.9	1582.5	912.2	1084.6	1156.0	1239.5	1319.6	1220.4	1152.5	1178.6	1147.3
75°	4993.0	1169.9	732.9	849.6	962.7	1157.7	1286.5	1098.5	994.1	969.7	962.7
77.5°	2545.2	764.3	548.4	635.4	722.5	1046.3	1241.3	955.8	823.5	785.2	767.8
80°	908.8	475.3	386.5	438.7	487.5	900.1	1084.6	790.4	638.9	632.0	638.9
82.5°	421.3	306.4	259.4	287.3	289.0	600.6	826.9	590.2	485.7	738.2	623.3
85°	181.1	153.2	146.2	142.8	132.3	268.1	464.8	316.8	494.4	221.1	203.7
87.5°	54.0	60.9	54.0	40.0	29.6	29.6	47.0	17.4	12.2	8.7	8.7
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)