

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: P457576

Luminaire Tested: **GALN-SA8D-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457576
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-SA8D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50589 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

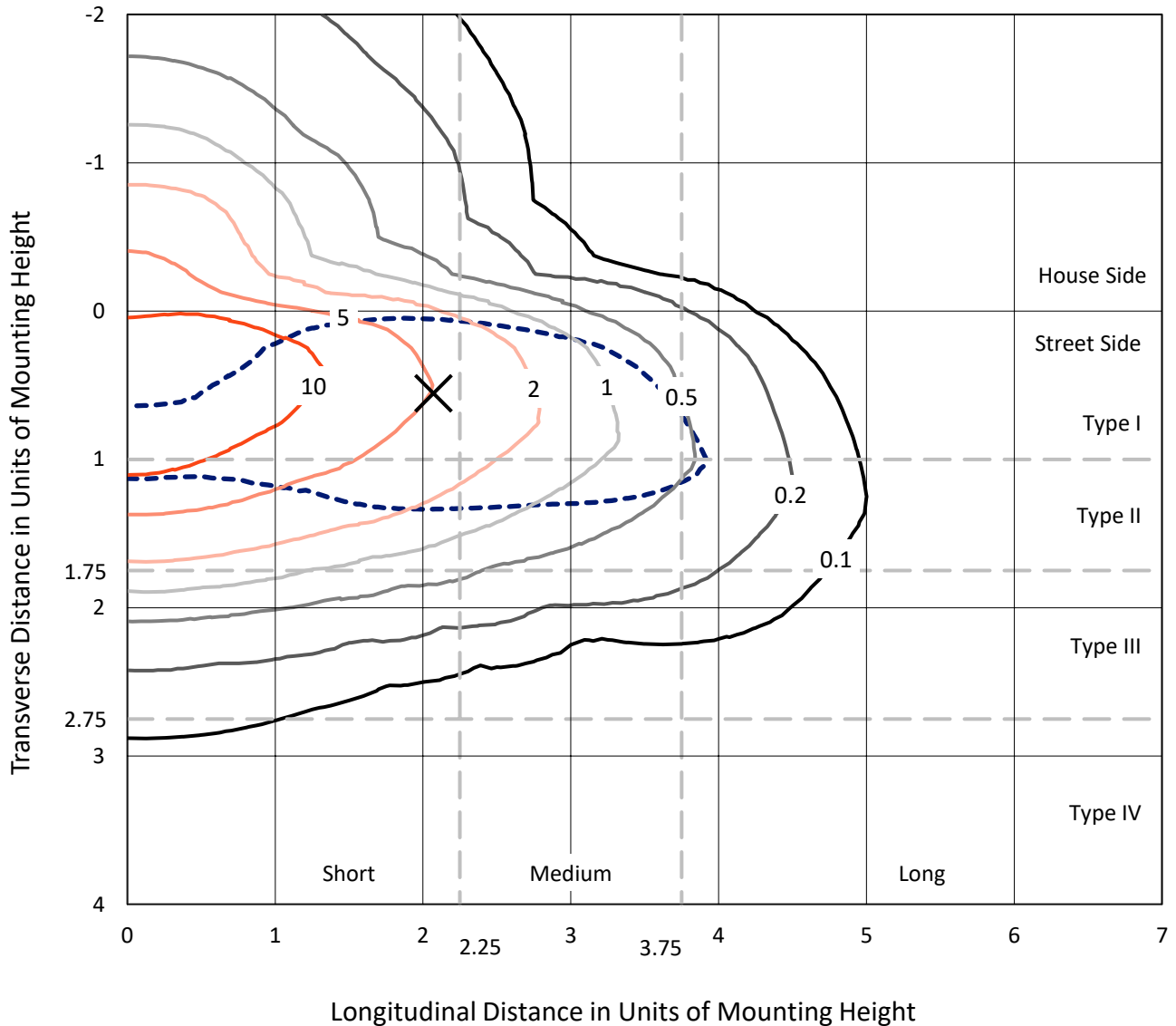
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457576
 CATALOG NUMBER: GALN-SA8D-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

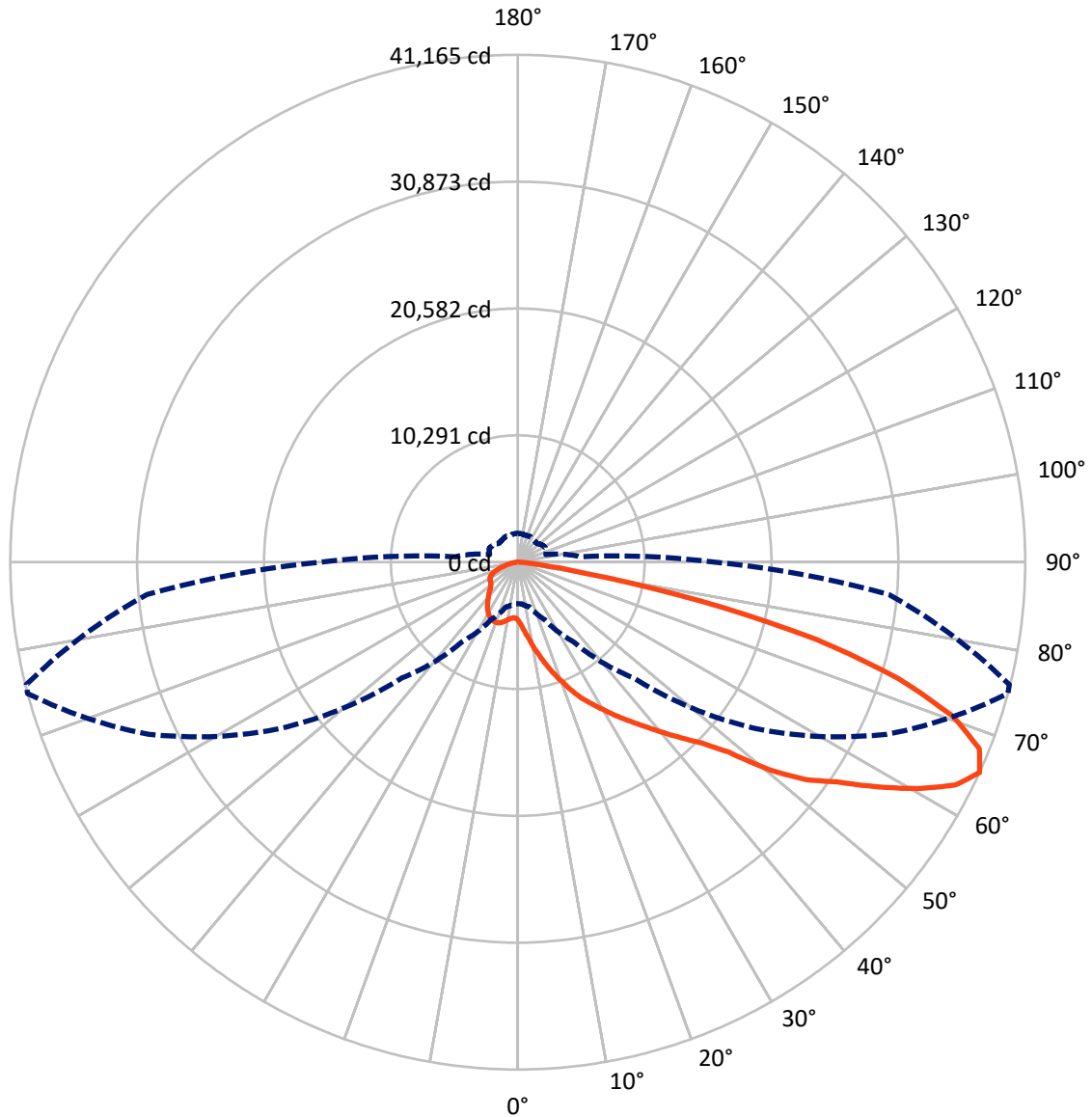
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - N/A

REPORT NUMBER: P457576
CATALOG NUMBER: GALN-SA8D-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457576

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8504.7	0.0	8504.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	42084.3	0.0	42084.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	50589.0	0.0	50589.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.1	1.1
10°-20°	2236.8	4.4
20°-30°	4320.8	8.5
30°-40°	7018.3	13.9
40°-50°	9654.3	19.1
50°-60°	11398.5	22.5
60°-70°	9986.9	19.7
70°-80°	4767.8	9.4
80°-90°	634.4	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°	50589.0	100.0
0°-180°	50589.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457576

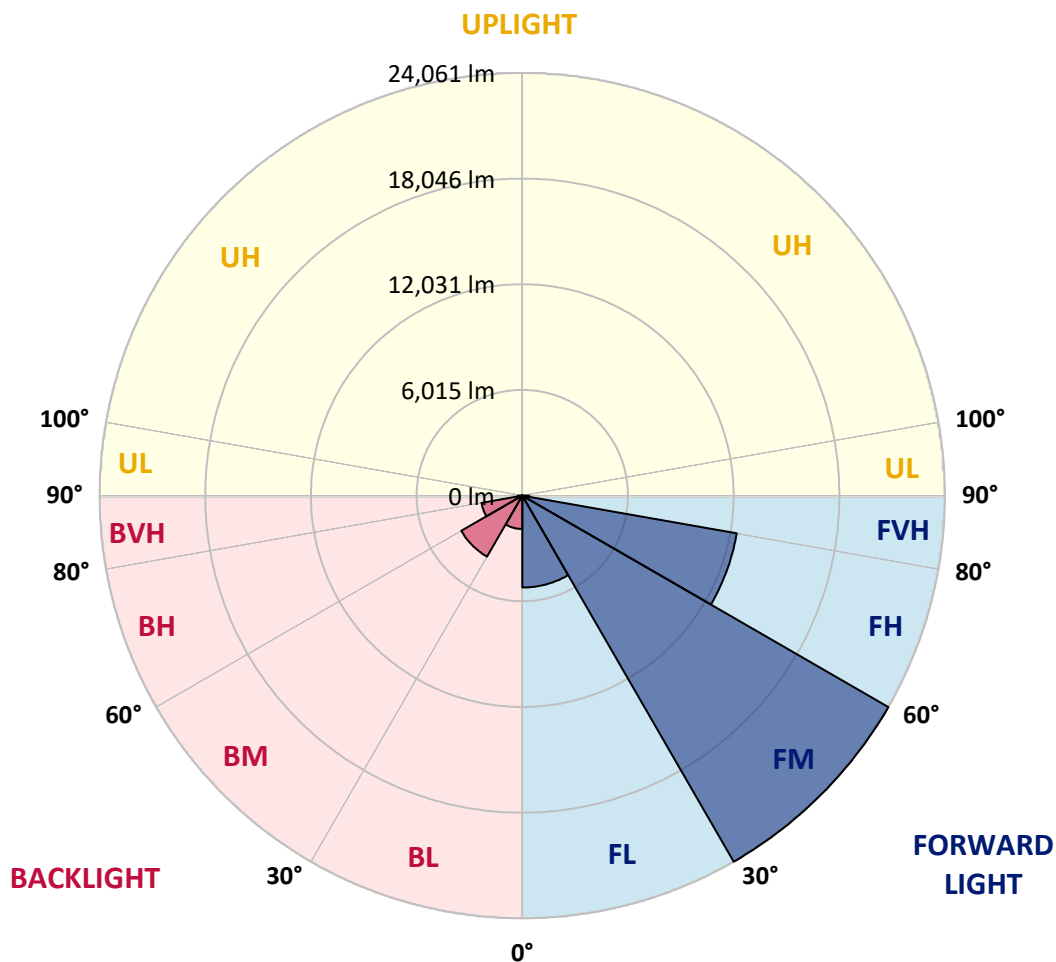
CATALOG NUMBER: GALN-SA8D-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5230.1	10.3			
FM	(30°-60°)	24061.2	47.6			
FH	(60°-80°)	12396.6	24.5			G5
FVH	(80°-90°)	396.5	0.8			G3/500
BL	(0°-30°)	1898.6	3.8	B3/2500		
BM	(30°-60°)	4009.9	7.9	B3/5000		
BH	(60°-80°)	2358.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	237.9	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





REPORT NUMBER: P457576

CATALOG NUMBER: GALN-SA8D-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4
2.5°	6245.2	6204.0	6160.1	6039.4	5910.4	5765.0	5556.5	5356.2	5090.0	5081.8	4884.2
5°	7976.6	7949.2	7754.4	7641.9	7342.8	6944.9	6607.4	6083.3	5597.6	5540.0	5155.8
7.5°	9568.1	9461.1	9387.0	9183.9	8887.6	8377.2	7724.2	7016.2	6204.0	6127.2	5490.6
10°	10767.2	10756.2	10717.8	10542.2	10319.9	9812.3	9087.9	8072.7	6972.3	6821.4	5896.7
12.5°	11664.5	11672.7	11667.2	11664.5	11505.3	11074.5	10289.7	9219.6	7748.9	7641.9	6365.9
15°	12254.4	12336.7	12369.6	12506.8	12520.6	12232.5	11557.4	10328.2	8624.2	8465.0	6870.8
17.5°	12644.0	12685.2	12838.9	13072.1	13261.4	13209.3	12608.4	11354.4	9518.7	9252.5	7394.9
20°	13017.2	13088.6	13206.5	13524.8	13859.6	14013.3	13590.7	12405.3	10405.0	10234.9	7973.9
22.5°	13793.8	13895.3	13936.4	14098.3	14383.7	14655.3	14463.3	13412.3	11376.3	11145.9	8588.5
25°	15108.1	15215.1	15099.9	15061.4	15154.7	15289.2	15248.0	14361.7	12292.8	11963.5	9170.2
27.5°	16820.3	16834.0	16609.0	16395.0	16164.5	16095.9	15969.7	15204.1	13088.6	12814.2	9754.7
30°	18658.7	18592.9	18219.7	17832.8	17443.2	17059.0	16696.8	16016.3	13974.9	13659.3	10328.2
32.5°	20365.5	20329.8	19915.5	19314.5	18656.0	18293.8	17561.2	16836.8	14924.3	14619.7	10918.1
35°	21644.1	21696.3	21240.8	20585.0	19866.1	19545.0	18620.3	17698.4	15906.6	15574.6	11560.2
37.5°	22552.4	22524.9	22121.6	21553.6	20922.5	20642.6	19857.8	18639.5	16963.0	16644.7	12262.6
40°	22876.2	22859.7	22560.6	22146.3	21745.7	21646.9	21153.0	19654.8	18173.1	17799.9	13107.8
42.5°	22670.4	22706.0	22508.5	22396.0	22321.9	22393.2	22439.9	20985.6	19492.9	19149.9	14024.2
45°	22039.3	22020.1	21992.6	22176.5	22593.5	23062.8	23713.1	22242.3	20928.0	20653.6	15253.5
47.5°	20911.5	21048.7	21117.3	21624.9	22535.9	23647.2	25178.3	23927.1	23010.6	22771.9	17127.6
50°	19333.8	19443.5	19849.6	20752.4	22110.6	23866.7	26610.7	26682.0	26484.4	26037.2	19163.6
52.5°	16869.7	17039.8	17876.7	19531.3	21238.0	23776.2	27477.7	29044.5	29305.2	28970.4	21169.4
55°	14112.0	14350.8	15234.3	17404.8	20036.2	23282.3	28075.9	30413.8	31453.7	31143.6	23101.2
57.5°	11412.0	11664.5	12572.7	14674.6	17939.8	22190.2	28468.3	31939.4	34378.7	33975.4	25504.9
60°	8552.8	8816.3	9595.5	11760.5	14954.4	20055.4	28202.1	33262.0	37301.0	37128.2	27911.3
62.5°	5518.0	5808.9	6486.7	8278.4	11494.3	17138.6	26778.0	33991.8	39830.9	39622.4	29667.4
65°	3361.3	3394.2	3767.4	5139.4	7866.9	13269.7	23521.0	33023.2	41164.5	41101.4	30202.5
67.5°	2173.2	2225.3	2395.5	3078.7	4716.8	9216.9	18806.9	29826.6	40385.2	40363.3	29096.7
70°	1835.7	1852.2	1929.0	2077.2	2741.2	5589.4	13206.5	24731.1	37424.5	37424.5	26437.8
72.5°	1640.9	1662.8	1690.3	1736.9	1956.4	3166.5	7880.6	19251.4	32312.6	32526.6	22503.0
75°	1490.0	1484.5	1500.9	1509.2	1668.3	2068.9	4074.7	14238.3	24997.2	24569.2	16296.2
77.5°	1275.9	1284.2	1275.9	1311.6	1473.5	1575.0	2068.9	9554.4	15149.3	14595.0	8179.7
80°	1048.2	1061.9	1075.6	1097.6	1259.5	1196.4	1243.0	4354.6	5603.1	5485.1	2527.2
82.5°	787.5	806.7	828.7	880.8	990.6	790.3	784.8	1860.4	2022.3	1852.2	930.2
85°	318.3	375.9	568.0	620.1	622.9	433.5	482.9	776.5	825.9	806.7	364.9
87.5°	74.1	87.8	183.8	277.1	255.2	161.9	178.4	252.4	288.1	266.2	123.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457576
 CATALOG NUMBER: GALN-SA8D-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4	4700.4
2.5°	4793.7	4697.6	4533.0	4406.8	4316.2	4236.6	4187.2	4157.1	4146.1	4143.3	4146.1
5°	4955.5	4785.4	4524.7	4360.1	4269.6	4217.4	4187.2	4184.5	4187.2	4190.0	4181.8
7.5°	5177.8	4933.6	4593.3	4439.7	4371.1	4332.7	4319.0	4313.5	4316.2	4313.5	4313.5
10°	5474.1	5139.4	4727.8	4568.6	4511.0	4467.1	4445.2	4431.5	4420.5	4409.5	4404.0
12.5°	5800.7	5367.1	4873.2	4719.6	4637.2	4568.6	4519.3	4483.6	4458.9	4434.2	4428.7
15°	6165.6	5608.6	5035.1	4821.1	4703.1	4601.6	4516.5	4458.9	4415.0	4379.3	4376.6
17.5°	6514.1	5836.3	5144.9	4867.7	4694.9	4552.2	4439.7	4360.1	4305.2	4258.6	4253.1
20°	6887.3	6053.1	5194.3	4837.6	4612.6	4439.7	4291.5	4195.5	4132.4	4080.2	4072.0
22.5°	7263.2	6237.0	5188.8	4741.5	4469.9	4266.8	4110.4	4008.9	3934.8	3882.7	3863.5
25°	7622.6	6385.1	5120.2	4587.9	4272.3	4061.0	3901.9	3808.6	3742.7	3679.6	3679.6
27.5°	7946.4	6472.9	4991.2	4401.3	4069.3	3847.0	3720.8	3635.7	3575.3	3534.2	3509.5
30°	8264.7	6514.1	4815.6	4165.3	3855.2	3665.9	3564.4	3515.0	3460.1	3413.5	3408.0
32.5°	8550.1	6505.9	4596.1	3934.8	3652.2	3517.7	3476.6	3438.1	3380.5	3314.7	3298.2
35°	8827.2	6451.0	4335.4	3682.4	3482.1	3429.9	3440.9	3386.0	3281.7	3199.4	3185.7
37.5°	9129.1	6352.2	4050.0	3476.6	3339.4	3388.8	3416.2	3295.5	3125.3	2996.4	2966.2
40°	9477.5	6239.7	3753.7	3270.8	3226.9	3350.3	3350.3	3128.1	2894.8	2815.3	2793.3
42.5°	9886.4	6146.4	3506.7	3097.9	3133.6	3257.0	3243.3	2905.8	2809.8	2768.6	2757.7
45°	10534.0	6113.5	3251.6	2947.0	3056.7	3147.3	3034.8	2829.0	2774.1	2741.2	2730.2
47.5°	11557.4	6151.9	3026.6	2834.5	2968.9	3037.5	2801.6	2776.9	2738.4	2691.8	2686.3
50°	12506.8	6116.2	2867.4	2771.4	2892.1	2905.8	2705.5	2713.7	2691.8	2639.7	2628.7
52.5°	13283.4	6003.7	2765.9	2738.4	2826.3	2675.3	2615.0	2645.2	2636.9	2571.1	2560.1
55°	14136.7	5935.1	2716.5	2738.4	2782.3	2475.0	2529.9	2573.8	2562.8	2516.2	2513.4
57.5°	15171.2	5948.8	2680.8	2746.7	2738.4	2373.5	2444.8	2497.0	2494.2	2480.5	2480.5
60°	16230.4	5954.3	2625.9	2743.9	2686.3	2293.9	2357.0	2431.1	2436.6	2444.8	2444.8
62.5°	16581.6	5715.6	2518.9	2694.5	2571.1	2217.1	2274.7	2376.2	2370.8	2392.7	2395.5
65°	15925.8	5054.3	2359.8	2582.0	2422.9	2162.2	2211.6	2304.9	2274.7	2332.3	2343.3
67.5°	14496.2	4181.8	2112.8	2379.0	2258.3	2104.6	2170.5	2206.1	2151.2	2263.7	2266.5
70°	12528.8	3265.3	1800.0	2090.9	2071.7	2044.2	2137.5	2082.6	2005.8	2143.0	2115.6
72.5°	10476.3	2494.2	1437.8	1709.5	1822.0	1953.7	2079.9	1923.5	1816.5	1857.6	1808.3
75°	7869.6	1843.9	1155.2	1339.0	1517.4	1824.7	2027.8	1731.4	1566.8	1528.4	1517.4
77.5°	4011.6	1204.6	864.3	1001.5	1138.7	1649.1	1956.4	1506.4	1297.9	1237.5	1210.1
80°	1432.3	749.1	609.2	691.5	768.3	1418.6	1709.5	1245.7	1007.0	996.0	1007.0
82.5°	664.0	482.9	408.8	452.7	455.5	946.7	1303.4	930.2	765.6	1163.4	982.3
85°	285.4	241.5	230.5	225.0	208.5	422.6	732.6	499.4	779.3	348.5	321.0
87.5°	85.1	96.0	85.1	63.1	46.6	46.6	74.1	27.4	19.2	13.7	13.7
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)