

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: P451196

Luminaire Tested: **GALN-SA2A-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451196
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-SA2A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 9372 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

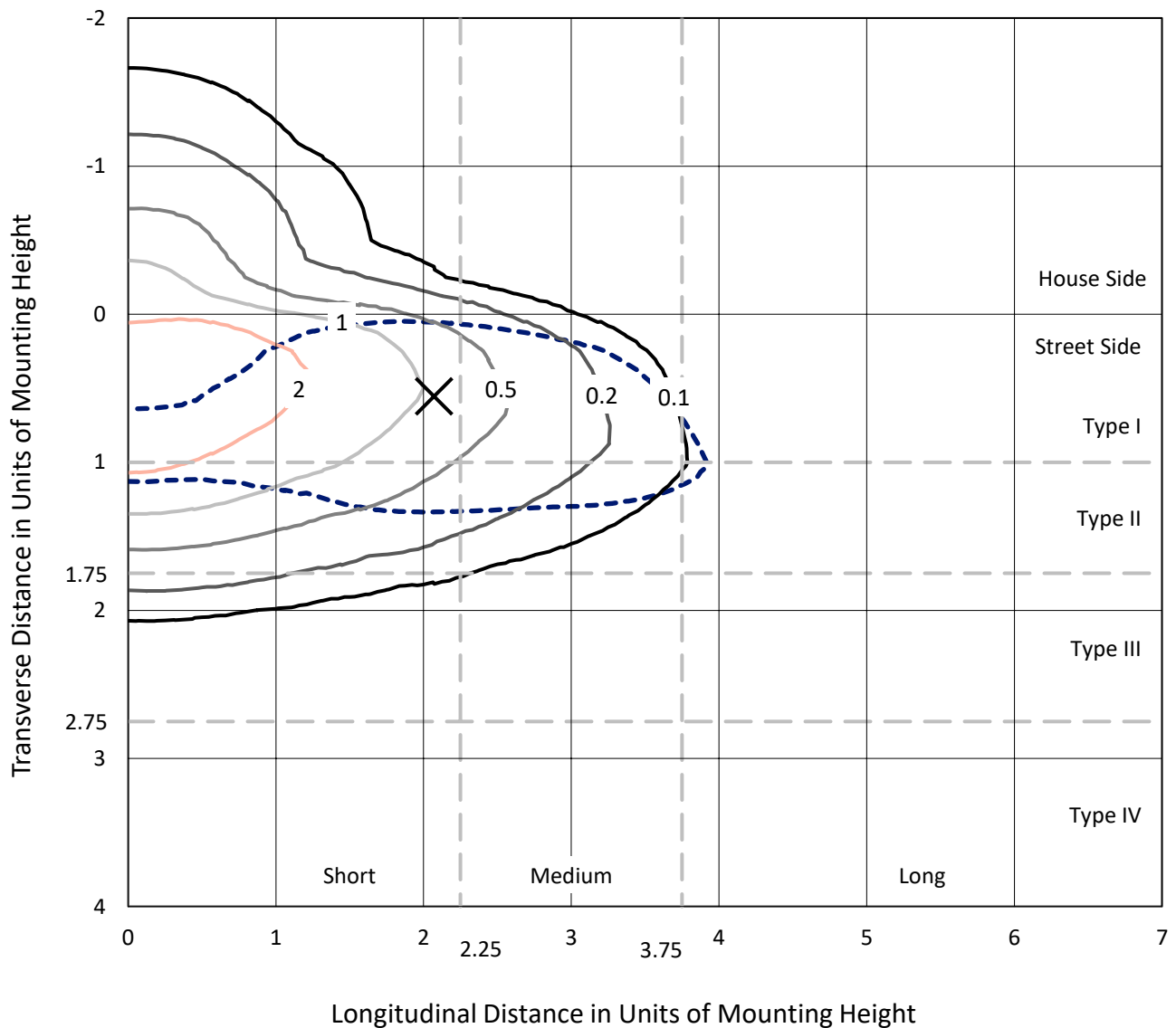
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

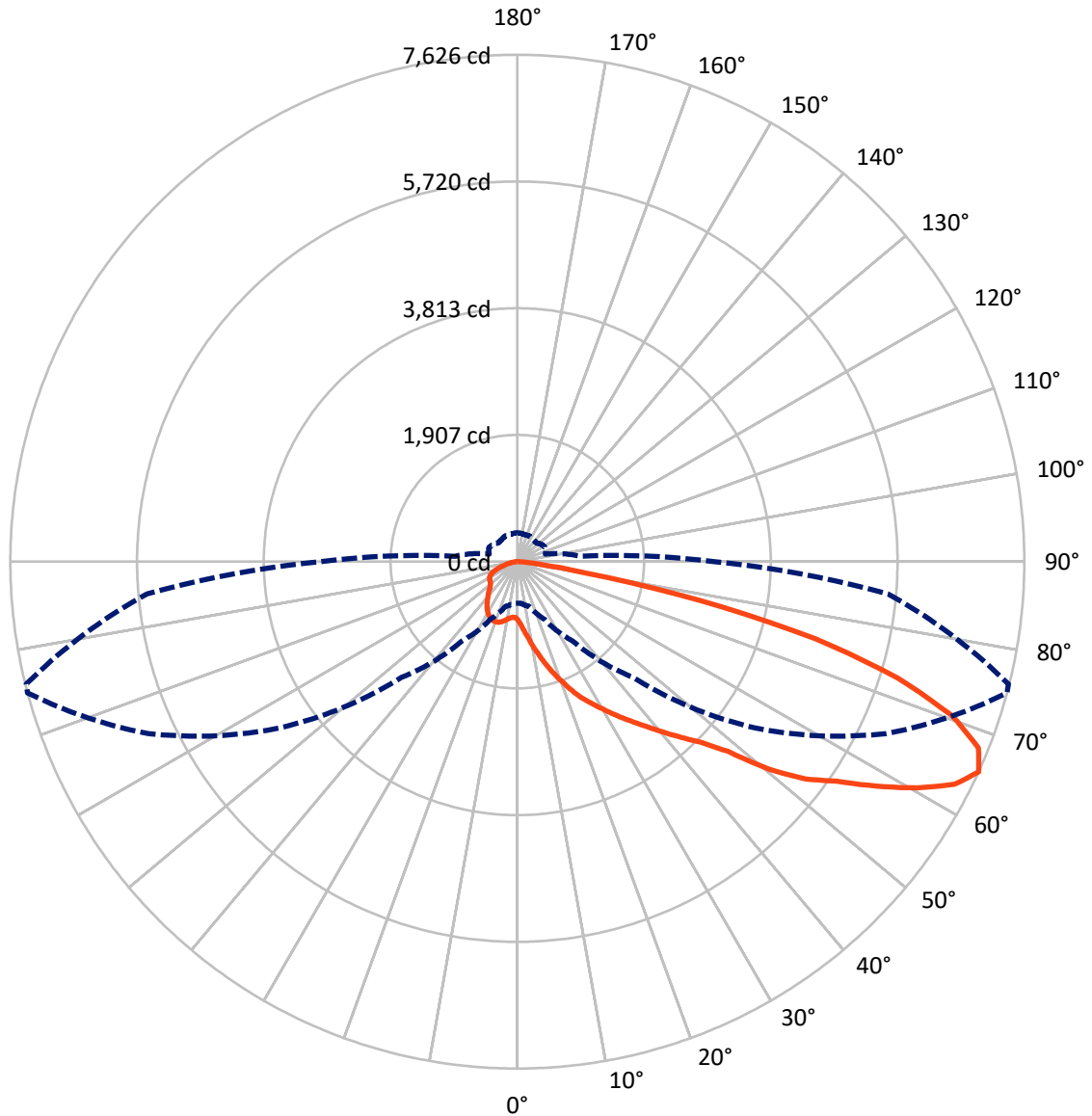
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1575.6	0.0	1575.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7796.4	0.0	7796.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	9372.0	0.0	9372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.1
10°-20°	414.4	4.4
20°-30°	800.5	8.5
30°-40°	1300.2	13.9
40°-50°	1788.5	19.1
50°-60°	2111.7	22.5
60°-70°	1850.2	19.7
70°-80°	883.3	9.4
80°-90°	117.5	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°	9372.0	100.0
0°-180°	9372.0	100.0

Coefficient of Utilization



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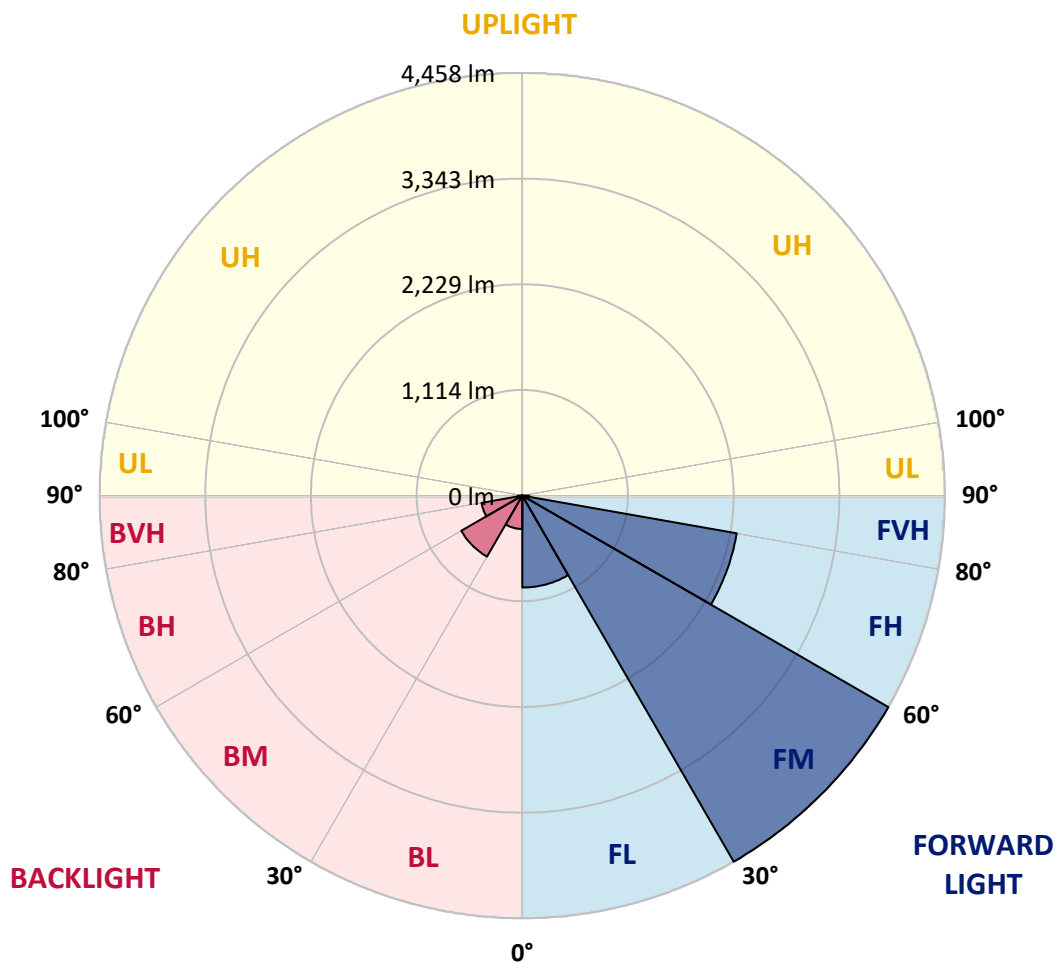
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.9	10.3			
FM (30°-60°)	4457.5	47.6			
FH (60°-80°)	2296.6	24.5			G2/5000
FVH (80°-90°)	73.5	0.8			G1/100
BL (0°-30°)	351.7	3.8	B1/500		
BM (30°-60°)	742.9	7.9	B1/1000		
BH (60°-80°)	436.9	4.7	B1/500		G1/500
BVH (80°-90°)	44.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8
2.5°	1157.0	1149.3	1141.2	1118.8	1095.0	1068.0	1029.4	992.3	943.0	941.4	904.8
5°	1477.7	1472.6	1436.6	1415.7	1360.3	1286.6	1224.1	1127.0	1037.0	1026.3	955.2
7.5°	1772.6	1752.7	1739.0	1701.4	1646.5	1551.9	1431.0	1299.8	1149.3	1135.1	1017.2
10°	1994.7	1992.7	1985.6	1953.0	1911.8	1817.8	1683.6	1495.5	1291.7	1263.7	1092.4
12.5°	2160.9	2162.5	2161.4	2160.9	2131.4	2051.6	1906.3	1708.0	1435.5	1415.7	1179.3
15°	2270.2	2285.5	2291.6	2317.0	2319.5	2266.2	2141.1	1913.4	1597.7	1568.2	1272.9
17.5°	2342.4	2350.0	2378.5	2421.7	2456.8	2447.1	2335.8	2103.5	1763.4	1714.1	1370.0
20°	2411.5	2424.8	2446.6	2505.6	2567.6	2596.1	2517.8	2298.2	1927.6	1896.1	1477.2
22.5°	2555.4	2574.2	2581.8	2611.8	2664.7	2715.0	2679.4	2484.7	2107.6	2064.9	1591.1
25°	2798.9	2818.7	2797.4	2790.2	2807.5	2832.4	2824.8	2660.6	2277.3	2216.3	1698.9
27.5°	3116.1	3118.6	3076.9	3037.3	2994.6	2981.9	2958.5	2816.7	2424.8	2373.9	1807.1
30°	3456.7	3444.5	3375.3	3303.7	3231.5	3160.3	3093.2	2967.1	2588.9	2530.5	1913.4
32.5°	3772.9	3766.3	3689.5	3578.2	3456.2	3389.1	3253.3	3119.1	2764.8	2708.4	2022.7
35°	4009.7	4019.4	3935.0	3813.5	3680.3	3620.9	3449.6	3278.8	2946.8	2885.3	2141.6
37.5°	4178.0	4172.9	4098.2	3993.0	3876.1	3824.2	3678.8	3453.1	3142.5	3083.6	2271.7
40°	4238.0	4234.9	4179.5	4102.8	4028.6	4010.3	3918.8	3641.2	3366.7	3297.6	2428.3
42.5°	4199.9	4206.5	4169.9	4149.0	4135.3	4148.5	4157.2	3887.7	3611.2	3547.7	2598.1
45°	4082.9	4079.4	4074.3	4108.4	4185.6	4272.6	4393.0	4120.6	3877.1	3826.2	2825.8
47.5°	3874.0	3899.4	3912.1	4006.2	4175.0	4380.8	4664.5	4432.7	4262.9	4218.7	3173.0
50°	3581.7	3602.1	3677.3	3844.5	4096.2	4421.5	4929.8	4943.0	4906.4	4823.6	3550.2
52.5°	3125.2	3156.8	3311.8	3618.3	3934.5	4404.7	5090.5	5380.7	5429.0	5367.0	3921.8
55°	2614.4	2658.6	2822.3	3224.4	3711.9	4313.2	5201.3	5634.4	5827.0	5769.6	4279.7
57.5°	2114.2	2160.9	2329.2	2718.6	3323.5	4110.9	5274.0	5917.0	6368.9	6294.2	4725.0
60°	1584.5	1633.3	1777.6	2178.7	2770.4	3715.4	5224.7	6162.0	6910.3	6878.3	5170.8
62.5°	1022.3	1076.1	1201.7	1533.6	2129.4	3175.1	4960.8	6297.2	7379.0	7340.4	5496.1
65°	622.7	628.8	697.9	952.1	1457.4	2458.3	4357.4	6117.8	7626.0	7614.3	5595.2
67.5°	402.6	412.3	443.8	570.4	873.8	1707.5	3484.1	5525.6	7481.7	7477.6	5390.4
70°	340.1	343.1	357.4	384.8	507.8	1035.5	2446.6	4581.6	6933.2	6933.2	4897.8
72.5°	304.0	308.1	313.1	321.8	362.4	586.6	1459.9	3566.5	5986.1	6025.8	4168.9
75°	276.0	275.0	278.1	279.6	309.1	383.3	754.9	2637.7	4630.9	4551.6	3019.0
77.5°	236.4	237.9	236.4	243.0	273.0	291.8	383.3	1770.0	2806.5	2703.8	1515.3
80°	194.2	196.7	199.3	203.3	233.3	221.6	230.3	806.7	1038.0	1016.2	468.2
82.5°	145.9	149.5	153.5	163.2	183.5	146.4	145.4	344.7	374.6	343.1	172.3
85°	59.0	69.6	105.2	114.9	115.4	80.3	89.5	143.9	153.0	149.5	67.6
87.5°	13.7	16.3	34.1	51.3	47.3	30.0	33.0	46.8	53.4	49.3	22.9
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°	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8	870.8
2.5°	888.1	870.3	839.8	816.4	799.6	784.9	775.7	770.1	768.1	767.6	768.1
5°	918.1	886.5	838.2	807.7	791.0	781.3	775.7	775.2	775.7	776.2	774.7
7.5°	959.2	914.0	851.0	822.5	809.8	802.7	800.1	799.1	799.6	799.1	799.1
10°	1014.1	952.1	875.9	846.4	835.7	827.6	823.5	821.0	818.9	816.9	815.9
12.5°	1074.6	994.3	902.8	874.3	859.1	846.4	837.2	830.6	826.0	821.5	820.5
15°	1142.2	1039.0	932.8	893.1	871.3	852.5	836.7	826.0	817.9	811.3	810.8
17.5°	1206.8	1081.2	953.1	901.8	869.8	843.3	822.5	807.7	797.6	788.9	787.9
20°	1275.9	1121.4	962.3	896.2	854.5	822.5	795.0	777.2	765.6	755.9	754.4
22.5°	1345.6	1155.4	961.3	878.4	828.1	790.5	761.5	742.7	729.0	719.3	715.7
25°	1412.2	1182.9	948.6	849.9	791.5	752.3	722.9	705.6	693.4	681.7	681.7
27.5°	1472.1	1199.2	924.7	815.4	753.9	712.7	689.3	673.5	662.4	654.7	650.2
30°	1531.1	1206.8	892.1	771.7	714.2	679.1	660.3	651.2	641.0	632.4	631.4
32.5°	1584.0	1205.3	851.5	729.0	676.6	651.7	644.1	636.9	626.3	614.1	611.0
35°	1635.3	1195.1	803.2	682.2	645.1	635.4	637.5	627.3	608.0	592.7	590.2
37.5°	1691.2	1176.8	750.3	644.1	618.6	627.8	632.9	610.5	579.0	555.1	549.5
40°	1755.8	1156.0	695.4	605.9	597.8	620.7	620.7	579.5	536.3	521.6	517.5
42.5°	1831.5	1138.7	649.7	573.9	580.5	603.4	600.9	538.3	520.5	512.9	510.9
45°	1951.5	1132.6	602.4	546.0	566.3	583.1	562.2	524.1	513.9	507.8	505.8
47.5°	2141.1	1139.7	560.7	525.1	550.0	562.7	519.0	514.4	507.3	498.7	497.7
50°	2317.0	1133.1	531.2	513.4	535.8	538.3	501.2	502.7	498.7	489.0	487.0
52.5°	2460.8	1112.2	512.4	507.3	523.6	495.6	484.4	490.0	488.5	476.3	474.3
55°	2618.9	1099.5	503.3	507.3	515.5	458.5	468.7	476.8	474.8	466.1	465.6
57.5°	2810.6	1102.1	496.6	508.8	507.3	439.7	452.9	462.6	462.1	459.5	459.5
60°	3006.8	1103.1	486.5	508.3	497.7	425.0	436.7	450.4	451.4	452.9	452.9
62.5°	3071.9	1058.9	466.7	499.2	476.3	410.7	421.4	440.2	439.2	443.3	443.8
65°	2950.4	936.4	437.2	478.3	448.9	400.6	409.7	427.0	421.4	432.1	434.1
67.5°	2685.5	774.7	391.4	440.7	418.4	389.9	402.1	408.7	398.5	419.4	419.9
70°	2321.1	604.9	333.5	387.4	383.8	378.7	396.0	385.8	371.6	397.0	391.9
72.5°	1940.8	462.1	266.4	316.7	337.5	361.9	385.3	356.3	336.5	344.1	335.0
75°	1457.9	341.6	214.0	248.1	281.1	338.0	375.7	320.8	290.3	283.1	281.1
77.5°	743.2	223.2	160.1	185.5	211.0	305.5	362.4	279.1	240.4	229.3	224.2
80°	265.4	138.8	112.9	128.1	142.3	262.8	316.7	230.8	186.6	184.5	186.6
82.5°	123.0	89.5	75.7	83.9	84.4	175.4	241.5	172.3	141.8	215.5	182.0
85°	52.9	44.7	42.7	41.7	38.6	78.3	135.7	92.5	144.4	64.6	59.5
87.5°	15.8	17.8	15.8	11.7	8.6	8.6	13.7	5.1	3.6	2.5	2.5
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)