

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: P534039

Luminaire Tested: **GALN-SA9C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38389 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

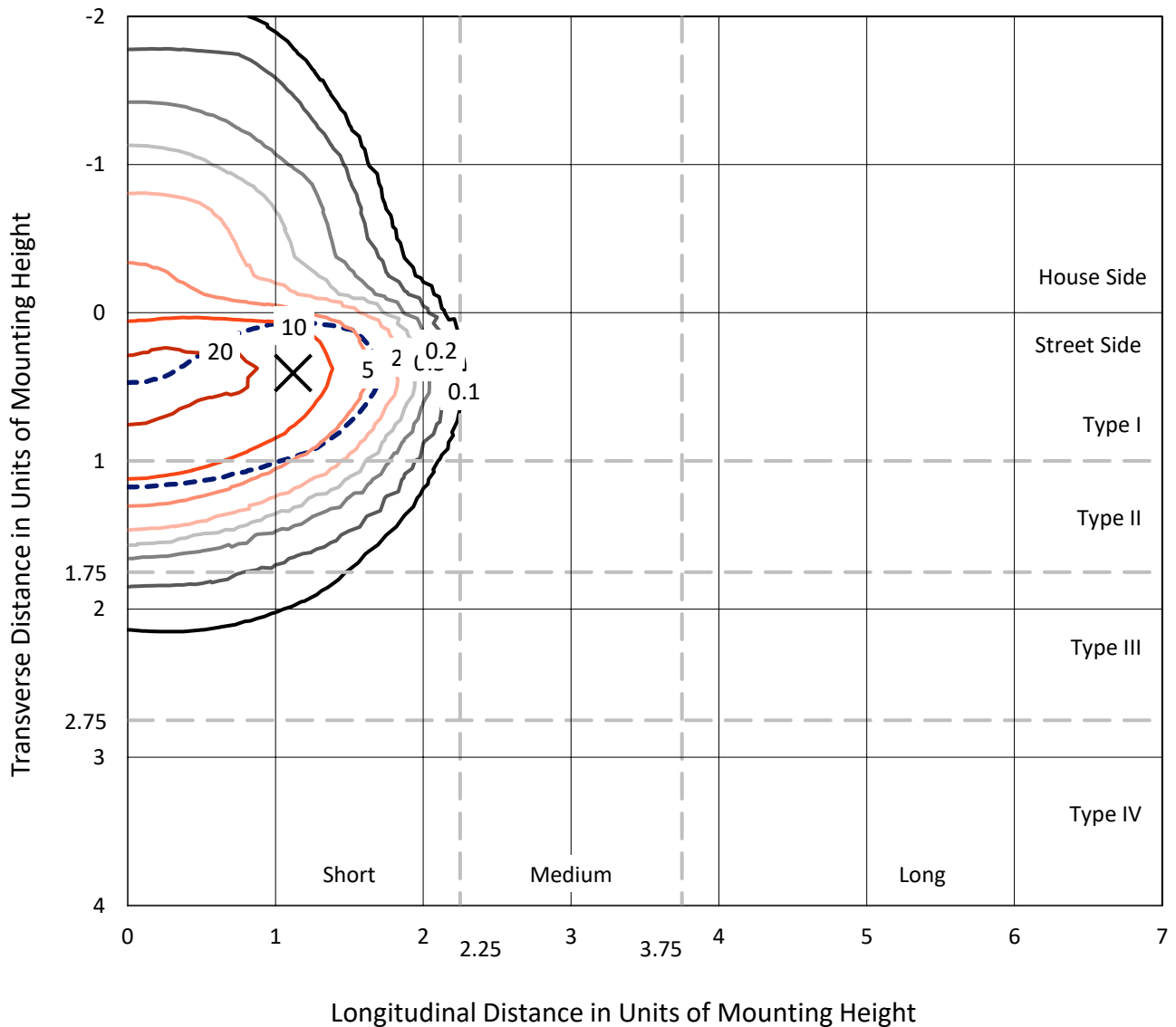
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

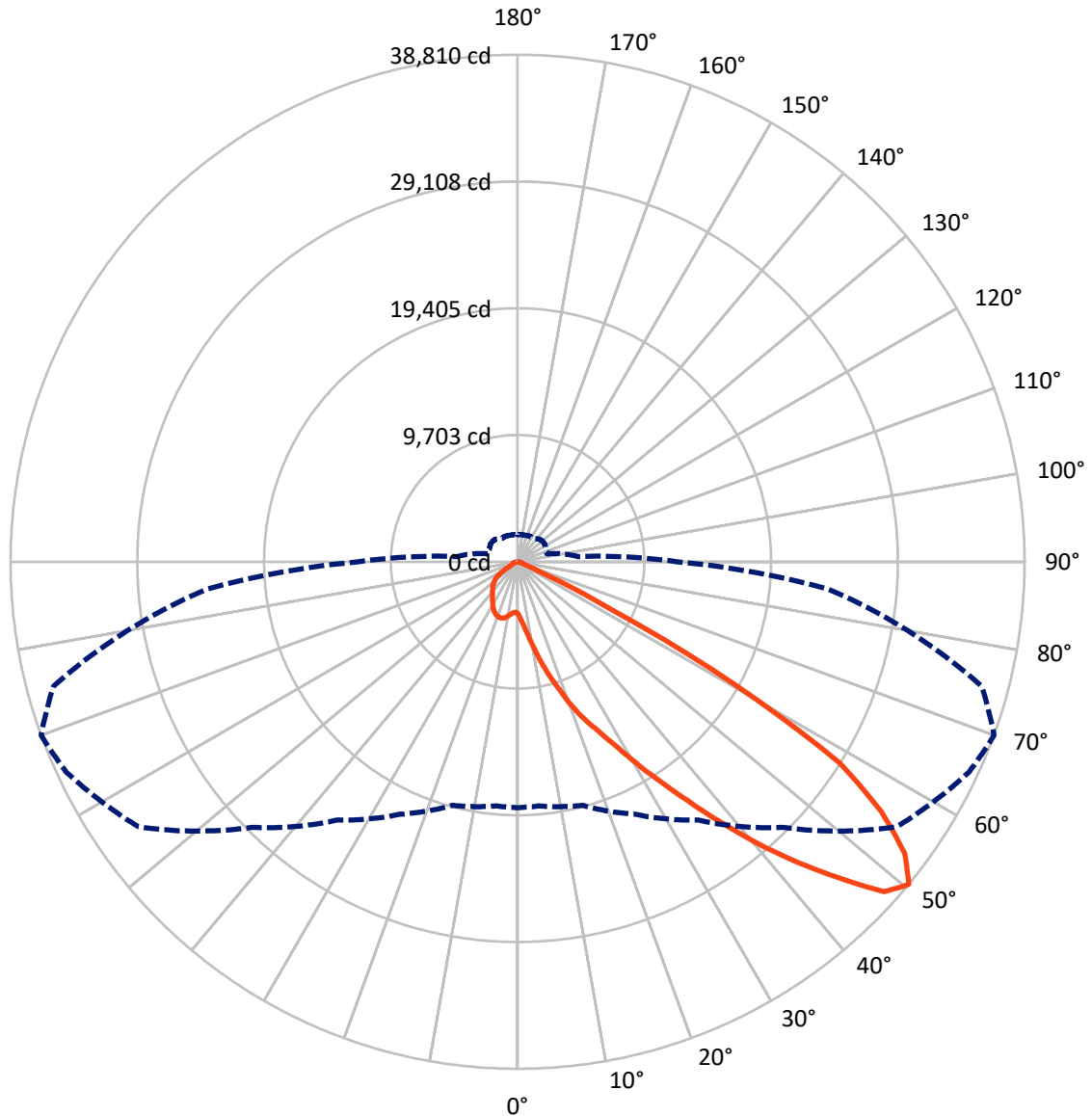
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5361.3	0.0	5361.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	33027.7	0.0	33027.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	38389.0	0.0	38389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	1.3
10°-20°	2236.7	5.8
20°-30°	4692.1	12.2
30°-40°	8087.7	21.1
40°-50°	11820.1	30.8
50°-60°	9205.9	24.0
60°-70°	1559.8	4.1
70°-80°	214.3	0.6
80°-90°	55.5	0.1
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°	38389.0	100.0
0°-180°	38389.0	100.0

Coefficient of Utilization



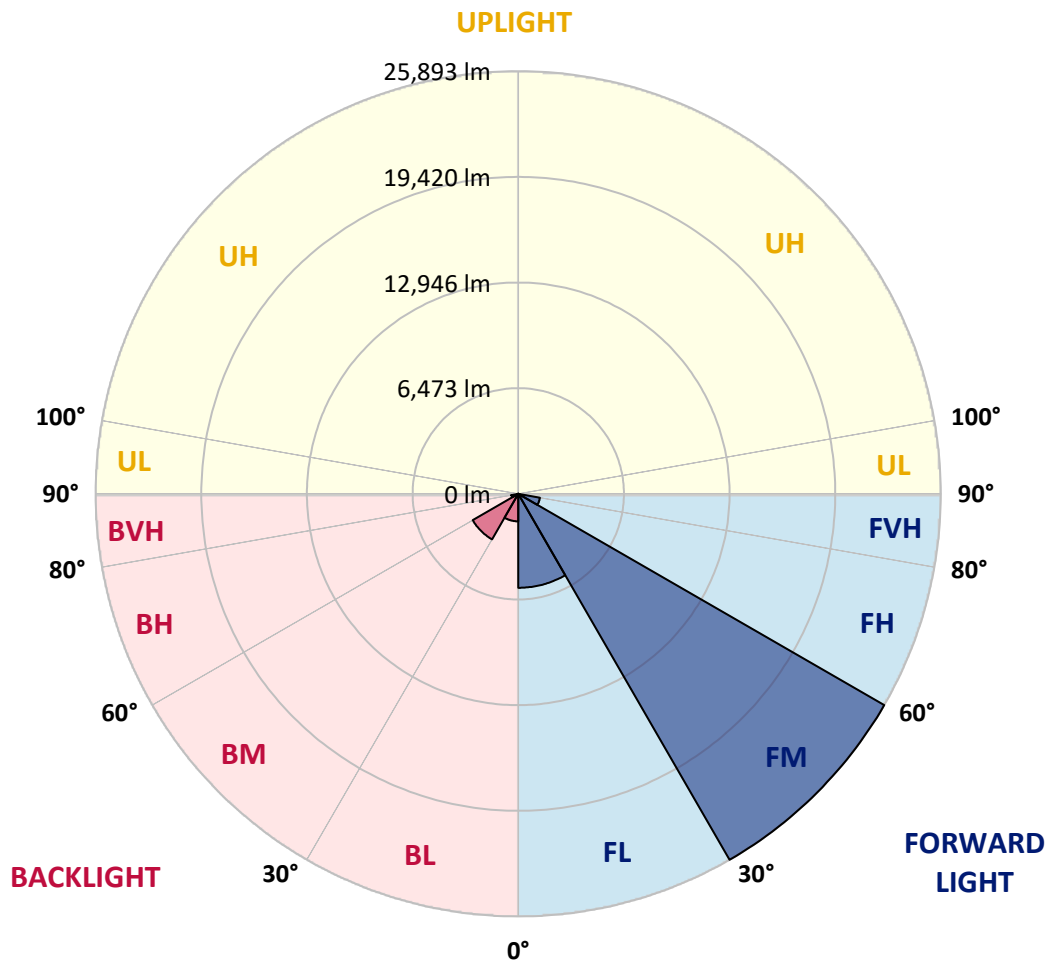
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5758.8	15.0			
FM (30°-60°)	25892.7	67.4			
FH (60°-80°)	1350.5	3.5			G1/1800
FVH (80°-90°)	25.7	0.1			G1/100
BL (0°-30°)	1687.1	4.4	B3/2500		
BM (30°-60°)	3220.9	8.4	B3/5000		
BH (60°-80°)	423.5	1.1	B1/500		G1/500
BVH (80°-90°)	29.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3
2.5°	5207.1	5169.2	5087.2	4935.7	4872.6	4721.1	4632.8	4462.3	4355.0	4235.1	4102.6
5°	7334.1	7138.5	7018.6	6848.1	6349.5	6040.3	5529.0	5093.5	4891.5	4670.6	4367.7
7.5°	9530.6	9404.4	9240.3	8874.2	8533.4	7889.6	7012.3	6052.9	5642.6	5263.9	4664.3
10°	11348.4	10994.9	10976.0	10704.6	10332.2	9562.2	8508.1	7315.2	6583.1	6027.6	5087.2
12.5°	12617.0	12295.1	12440.3	12408.7	12061.6	11354.7	10136.5	8558.6	7794.9	6930.2	5522.7
15°	13772.0	13639.5	13595.3	13557.4	13418.6	12894.7	11802.8	10073.4	8968.9	7927.4	6015.0
17.5°	14901.8	14561.0	14725.1	14756.7	14744.0	14270.7	13248.2	11512.5	10212.3	8981.5	6532.6
20°	15905.4	15936.9	15716.0	15671.8	15634.0	15615.0	14617.8	12938.9	11739.7	10086.0	7207.9
22.5°	17193.0	16972.0	17167.7	17041.5	16795.3	16643.8	15880.1	14201.2	13065.1	11417.8	7895.9
25°	18714.1	18890.8	18430.0	18379.5	18108.1	17584.3	16896.3	15615.0	14340.1	12654.9	8640.7
27.5°	20588.6	20279.4	20159.4	19881.7	19389.4	19168.5	18360.6	17073.0	15880.1	13955.1	9360.2
30°	22198.1	22116.0	21516.4	21188.2	20759.0	20752.7	19622.9	19048.6	17887.2	15993.7	10351.1
32.5°	23510.9	23151.2	22930.3	22703.0	22355.9	22450.6	21497.5	21194.5	20026.9	17887.2	11518.8
35°	24388.2	24129.5	23996.9	23649.8	23548.8	23971.7	23574.0	23447.8	22488.4	20550.8	12888.4
37.5°	24666.0	24748.0	24722.8	24287.3	24501.9	25644.3	26155.5	25827.3	25322.4	23359.4	14371.6
40°	24912.1	24968.9	24842.7	25353.9	25966.2	27266.4	29115.7	28572.9	28383.5	26206.0	16435.6
42.5°	25051.0	25006.8	25006.8	25890.4	26818.2	29431.3	31974.9	31615.1	31469.9	29235.6	18821.4
45°	24451.4	24022.2	24482.9	25682.1	27550.4	30497.9	34259.7	34758.3	34550.0	32839.6	21611.1
47.5°	22210.7	22475.8	22734.6	24337.8	26660.4	30169.7	35660.9	37358.7	37743.7	35869.2	23441.5
50°	18821.4	18764.6	19301.0	21320.8	24142.1	28755.9	35389.5	38109.8	38810.4	36778.0	23826.5
52.5°	13690.0	14106.6	14687.2	16694.3	20039.5	25095.2	31886.5	36172.1	37106.2	35660.9	23574.0
55°	7971.6	7510.9	8817.4	10515.2	13671.1	18928.7	26957.1	32063.2	33792.6	33628.5	22299.1
57.5°	3193.7	3092.7	3540.8	4771.6	7132.2	11733.4	19604.0	26344.9	29115.7	30800.9	19597.7
60°	1401.2	1369.6	1609.5	1944.0	2916.0	5409.1	10723.5	16385.1	19275.8	21522.8	13488.0
62.5°	1009.9	997.2	1117.2	1237.1	1540.0	2354.2	4506.5	6602.0	8230.4	9940.9	6040.3
65°	814.2	845.8	927.8	990.9	1136.1	1306.5	1590.5	1836.7	2253.3	2335.3	1331.8
67.5°	662.7	688.0	763.7	833.1	858.4	706.9	732.2	643.8	643.8	574.4	460.8
70°	486.0	492.3	580.7	662.7	530.2	284.0	498.6	498.6	448.1	429.2	391.3
72.5°	359.8	366.1	435.5	410.3	208.3	176.7	366.1	403.9	366.1	347.1	315.6
75°	265.1	271.4	227.2	94.7	88.4	113.6	214.6	277.7	265.1	258.8	239.8
77.5°	50.5	37.9	31.6	44.2	63.1	94.7	138.9	170.4	176.7	189.3	176.7
80°	6.3	6.3	18.9	37.9	69.4	101.0	145.2	164.1	170.4	176.7	164.1
82.5°	0.0	6.3	18.9	37.9	69.4	94.7	126.2	145.2	157.8	164.1	157.8
85°	0.0	6.3	12.6	31.6	56.8	69.4	63.1	44.2	37.9	44.2	31.6
87.5°	0.0	0.0	6.3	6.3	12.6	12.6	12.6	12.6	12.6	12.6	12.6
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°	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3	3976.3
2.5°	4026.8	4001.6	3913.2	3818.6	3736.5	3774.4	3736.5	3704.9	3717.6	3704.9	3692.3
5°	4247.7	4134.1	3944.8	3862.7	3793.3	3787.0	3768.1	3761.7	3768.1	3768.1	3711.3
7.5°	4456.0	4273.0	4071.0	3982.7	3900.6	3906.9	3862.7	3862.7	3856.4	3824.9	3812.2
10°	4771.6	4525.5	4266.7	4108.9	4007.9	3989.0	3944.8	3900.6	3900.6	3900.6	3837.5
12.5°	5118.8	4809.5	4456.0	4273.0	4153.1	4058.4	3989.0	3976.3	3906.9	3894.3	3862.7
15°	5421.7	5030.4	4582.3	4329.8	4178.3	4052.1	3944.8	3875.4	3843.8	3824.9	3799.6
17.5°	5718.4	5219.7	4651.7	4329.8	4165.7	4020.5	3906.9	3843.8	3768.1	3780.7	3730.2
20°	6116.0	5421.7	4670.6	4247.7	4045.8	3906.9	3755.4	3723.9	3679.7	3641.8	3654.4
22.5°	6501.0	5566.9	4613.8	4146.8	3856.4	3692.3	3616.6	3578.7	3559.8	3528.2	3484.0
25°	6848.1	5724.7	4525.5	3963.7	3654.4	3534.5	3465.1	3458.8	3414.6	3414.6	3332.6
27.5°	7201.6	5781.5	4374.0	3749.1	3477.7	3408.3	3376.7	3364.1	3345.2	3301.0	3244.2
30°	7605.5	5800.4	4153.1	3528.2	3319.9	3244.2	3288.4	3319.9	3237.9	3155.8	3181.1
32.5°	7940.1	5756.2	3888.0	3319.9	3206.3	3168.5	3256.8	3288.4	3193.7	3105.3	3061.2
35°	8344.0	5648.9	3629.2	3155.8	3092.7	3168.5	3244.2	3244.2	3054.8	2947.5	2922.3
37.5°	8956.2	5529.0	3389.4	3017.0	2972.8	3130.6	3231.6	3162.1	2865.5	2732.9	2701.4
40°	9612.7	5453.3	3155.8	2878.1	2909.7	3067.5	3124.3	2909.7	2606.7	2524.7	2499.4
42.5°	10565.7	5301.8	2947.5	2758.2	2852.9	2979.1	2979.1	2594.1	2480.5	2436.3	2430.0
45°	11752.3	5194.5	2764.5	2657.2	2770.8	2802.4	2701.4	2430.0	2347.9	2335.3	2341.6
47.5°	12333.0	4986.2	2575.2	2537.3	2619.3	2625.6	2360.6	2297.4	2228.0	2209.1	2196.5
50°	12244.6	4613.8	2329.0	2379.5	2493.1	2430.0	2152.3	2164.9	2101.8	2095.5	2063.9
52.5°	11626.1	4026.8	2082.8	2202.8	2329.0	2146.0	1981.9	1969.2	1969.2	1887.2	1855.6
55°	10306.9	3244.2	1786.2	1937.7	2089.2	1805.1	1761.0	1748.3	1716.8	1641.0	1622.1
57.5°	8161.0	2379.5	1344.4	1508.5	1773.6	1533.7	1527.4	1470.6	1388.6	1331.8	1331.8
60°	4853.7	1369.6	845.8	921.5	1174.0	1243.4	1382.3	1357.0	1218.1	1129.8	1104.5
62.5°	2215.4	706.9	536.5	549.1	631.2	807.9	1085.6	1256.0	1060.4	908.9	896.3
65°	744.8	523.9	441.8	422.9	435.5	486.0	650.1	889.9	845.8	700.6	675.3
67.5°	454.4	467.1	416.6	385.0	385.0	378.7	372.4	403.9	498.6	486.0	492.3
70°	391.3	429.2	385.0	347.1	334.5	315.6	265.1	220.9	189.3	220.9	233.5
72.5°	315.6	340.8	328.2	296.6	265.1	239.8	189.3	145.2	107.3	94.7	94.7
75°	233.5	252.5	265.1	227.2	202.0	170.4	138.9	94.7	56.8	37.9	37.9
77.5°	170.4	189.3	195.7	176.7	151.5	119.9	88.4	63.1	31.6	12.6	12.6
80°	145.2	170.4	189.3	176.7	157.8	113.6	82.1	44.2	25.2	6.3	6.3
82.5°	138.9	170.4	189.3	170.4	151.5	107.3	82.1	50.5	18.9	6.3	6.3
85°	31.6	44.2	56.8	69.4	82.1	82.1	63.1	37.9	18.9	6.3	6.3
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	6.3	6.3	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)