

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: P452050

Luminaire Tested: **GALN-SA3A-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11529 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

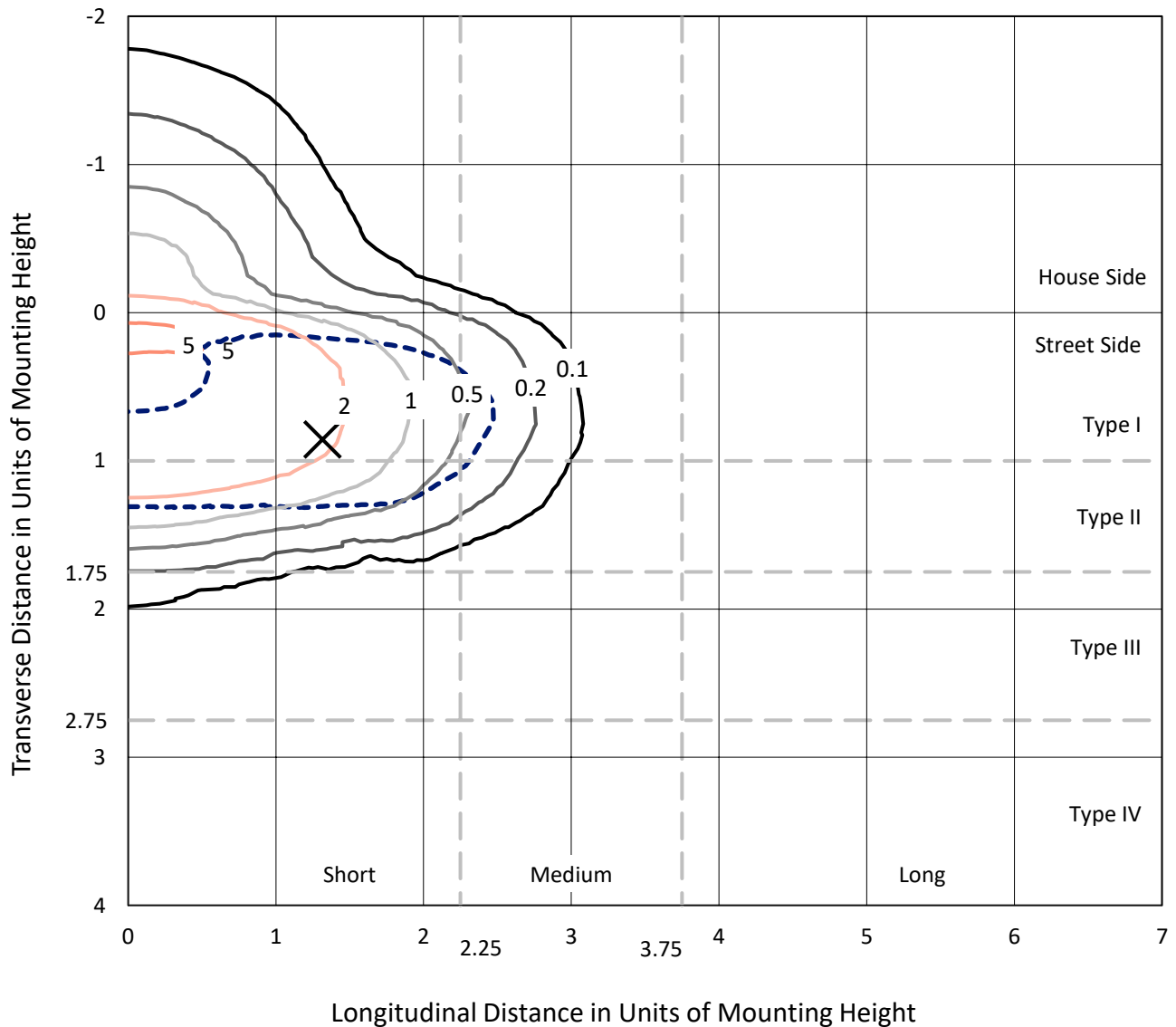
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

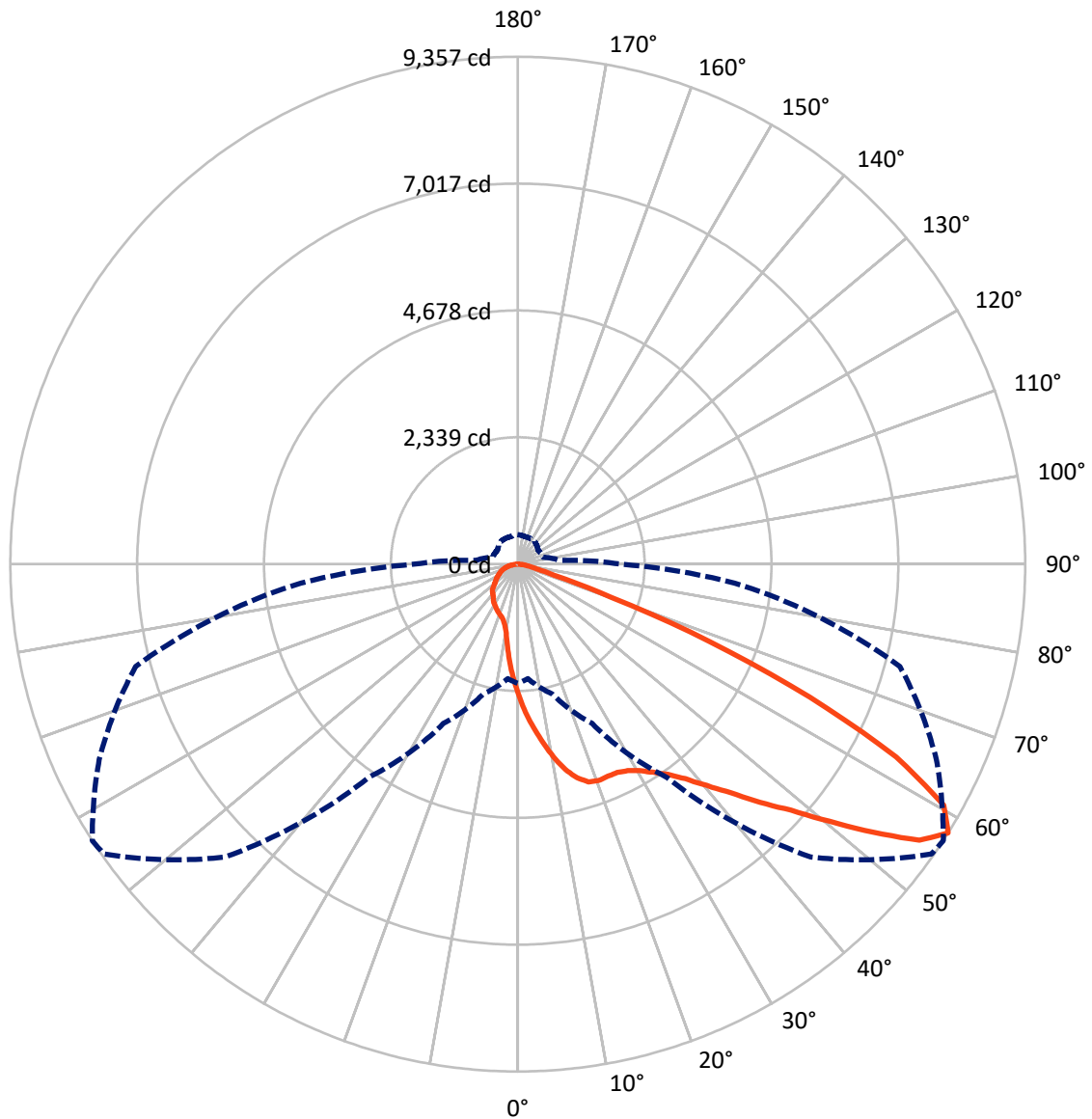
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1753.2	0.0	1753.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	9775.8	0.0	9775.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	11529.0	0.0	11529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	2.0
10°-20°	686.0	6.0
20°-30°	1139.2	9.9
30°-40°	1715.9	14.9
40°-50°	2576.3	22.3
50°-60°	2887.7	25.0
60°-70°	1690.0	14.7
70°-80°	499.9	4.3
80°-90°	101.0	0.9
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°	11529.0	100.0
0°-180°	11529.0	100.0

Coefficient of Utilization



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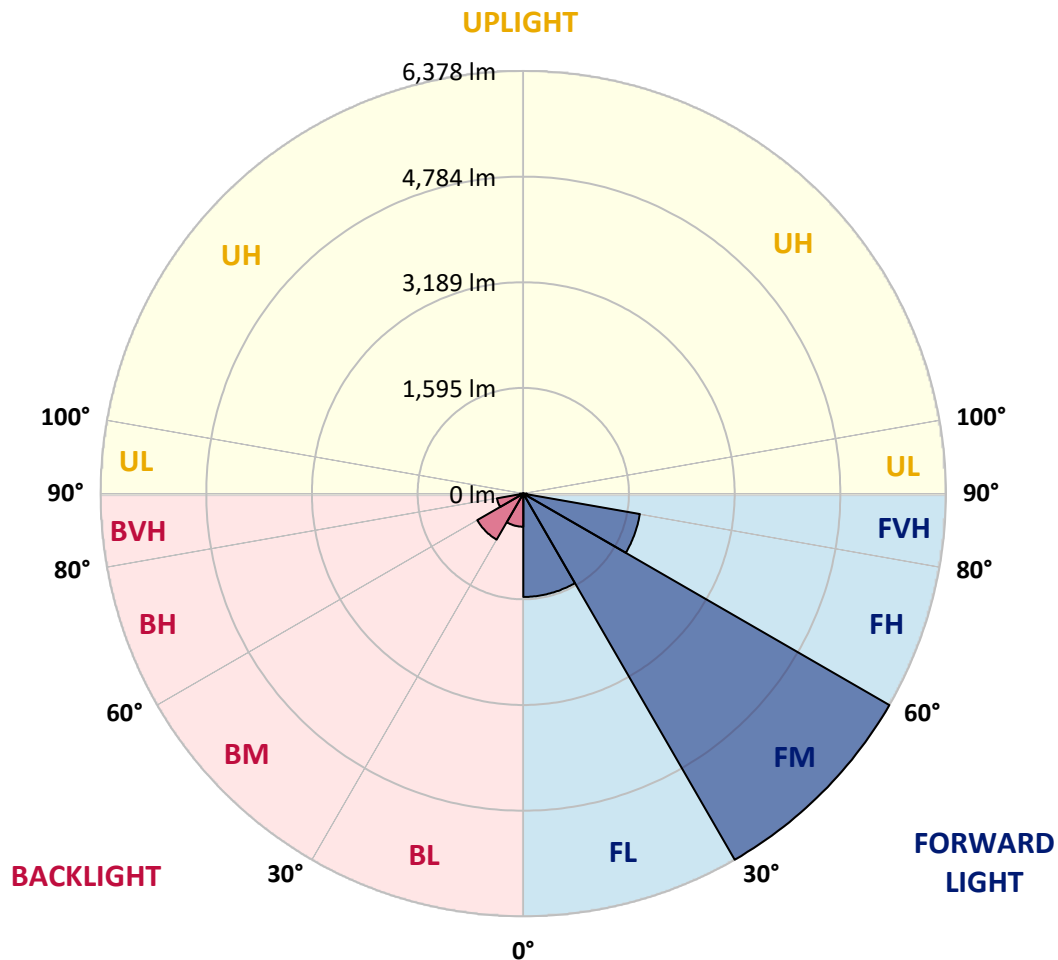
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1558.5	13.5			
FM (30°-60°)	6378.3	55.3			
FH (60°-80°)	1786.5	15.5			G1/1800
FVH (80°-90°)	52.4	0.5			G1/100
BL (0°-30°)	499.6	4.3	B1/500		
BM (30°-60°)	801.6	7.0	B1/1000		
BH (60°-80°)	403.4	3.5	B1/500		G1/500
BVH (80°-90°)	48.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1
2.5°	3009.7	2976.8	2951.0	2928.2	2898.6	2818.4	2738.3	2737.0	2673.3	2574.8	2473.9
5°	3500.0	3455.8	3461.5	3390.8	3320.1	3204.0	3034.3	3025.4	2889.7	2705.5	2518.0
7.5°	3819.3	3820.0	3802.3	3761.9	3685.5	3553.6	3361.2	3317.6	3128.9	2849.4	2568.5
10°	3802.9	3820.0	3849.6	3884.3	3907.7	3842.7	3667.2	3614.2	3368.7	3023.5	2624.7
12.5°	3584.6	3611.1	3653.4	3740.5	3881.2	3988.5	3928.5	3885.6	3646.4	3197.1	2686.5
15°	3448.3	3464.0	3487.4	3546.1	3697.5	3954.4	4109.6	4086.9	3908.3	3393.4	2756.0
17.5°	3406.6	3422.4	3430.0	3465.9	3573.8	3837.0	4180.9	4221.3	4140.6	3573.8	2826.0
20°	3448.3	3455.8	3455.8	3477.3	3561.9	3768.2	4177.8	4259.2	4331.1	3790.3	2891.6
22.5°	3557.4	3560.6	3556.2	3563.7	3626.9	3787.2	4148.1	4249.1	4485.1	3974.0	2942.8
25°	3734.8	3739.8	3710.8	3693.1	3739.2	3870.5	4164.5	4257.3	4605.7	4149.4	2976.8
27.5°	3936.1	3942.4	3907.1	3866.0	3887.5	3973.3	4228.9	4312.2	4695.9	4322.3	2998.3
30°	4182.8	4185.4	4126.0	4076.8	4062.9	4126.7	4338.7	4416.3	4808.2	4526.2	3030.5
32.5°	4435.3	4454.2	4377.8	4308.4	4285.1	4304.6	4500.9	4576.0	4942.0	4745.1	3082.2
35°	4778.6	4781.7	4690.2	4605.7	4528.7	4553.9	4708.5	4762.8	5126.9	4998.2	3155.4
37.5°	5207.1	5236.1	5109.9	4952.1	4857.5	4820.9	4959.7	5019.0	5386.3	5308.7	3265.9
40°	5682.9	5693.7	5585.7	5487.3	5314.4	5208.4	5304.3	5368.7	5706.3	5679.1	3394.0
42.5°	5982.1	6005.4	6013.6	6003.5	5873.5	5695.6	5732.2	5762.5	6084.9	6026.9	3525.3
45°	6083.0	6117.8	6235.1	6483.8	6497.7	6322.2	6237.0	6266.1	6497.7	6377.8	3650.8
47.5°	5915.8	5975.1	6191.6	6701.5	7083.3	7096.6	6839.7	6776.0	6873.8	6668.7	3741.7
50°	5483.5	5496.1	5827.5	6565.8	7357.8	7836.8	7571.1	7452.5	7231.0	6883.9	3804.2
52.5°	4814.6	4829.1	5106.8	5935.4	7188.7	8354.3	8426.9	8214.9	7593.9	7051.1	3845.2
55°	3573.8	3657.8	3963.2	4764.1	6387.2	8305.7	9107.2	8986.7	8032.5	7183.7	3909.6
57.5°	2197.4	2120.5	2482.7	3241.3	4803.8	7638.0	9317.4	9356.5	8515.3	7294.7	4017.5
60°	1011.0	1026.1	1175.7	1671.7	2928.2	5975.1	8775.9	9023.3	8782.2	7290.9	4044.6
62.5°	696.7	682.8	645.0	734.0	1335.4	3778.9	7412.7	7831.8	8247.0	7064.4	3936.7
65°	622.9	609.0	535.8	511.2	613.4	1647.1	5388.8	5917.7	6943.8	6492.6	3667.9
67.5°	581.9	562.9	487.2	439.2	438.0	655.7	3177.5	3814.3	5150.3	5489.2	3178.2
70°	538.9	523.8	448.7	395.7	373.0	412.1	1396.6	1828.3	3344.1	3955.7	2475.8
72.5°	496.0	478.4	410.8	354.0	324.4	308.6	535.2	696.1	1889.5	2371.6	1517.8
75°	433.6	424.7	367.3	320.6	288.4	249.3	339.5	387.5	903.7	1089.3	761.7
77.5°	379.3	369.8	326.3	280.2	256.9	202.6	241.1	263.2	381.2	441.8	343.9
80°	277.7	287.1	275.2	247.4	229.1	159.0	162.2	180.5	226.6	250.5	210.2
82.5°	176.1	193.7	212.0	190.6	173.5	125.6	112.3	119.3	154.6	164.1	93.4
85°	73.8	75.1	123.1	116.1	99.1	74.5	67.5	71.3	82.7	86.5	43.5
87.5°	28.4	27.8	43.5	40.4	30.9	21.5	21.5	24.0	32.8	30.3	13.9
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°	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1
2.5°	2430.3	2385.5	2296.5	2186.1	2105.3	2014.4	1934.3	1876.9	1855.4	1845.3	1826.4
5°	2428.4	2340.1	2155.8	1962.7	1807.4	1648.4	1514.0	1426.9	1419.3	1361.3	1355.6
7.5°	2429.1	2294.0	2000.5	1716.6	1479.9	1317.1	1206.0	1177.0	1142.3	1133.4	1137.8
10°	2430.9	2235.3	1833.9	1473.0	1243.9	1137.2	1095.6	1084.2	1085.5	1089.3	1089.9
12.5°	2433.5	2178.5	1661.0	1288.0	1111.3	1067.2	1062.8	1072.8	1083.6	1091.8	1093.7
15°	2436.6	2113.5	1492.5	1139.1	1045.1	1041.3	1055.8	1072.8	1088.0	1100.0	1101.9
17.5°	2432.8	2037.8	1351.2	1047.6	1008.5	1026.8	1050.8	1072.2	1086.1	1097.5	1098.7
20°	2424.0	1953.2	1214.8	983.2	985.8	1015.4	1041.3	1061.5	1076.6	1082.3	1086.7
22.5°	2389.9	1852.2	1096.2	933.4	958.6	999.6	1030.6	1042.6	1025.5	1013.5	1016.7
25°	2331.9	1721.0	985.8	893.0	934.0	977.6	1009.1	980.1	966.2	961.1	963.7
27.5°	2259.3	1577.1	902.5	850.7	902.5	952.9	944.1	939.1	932.7	924.5	926.4
30°	2181.0	1436.4	831.8	817.9	868.4	897.4	901.2	909.4	902.5	889.8	894.9
32.5°	2108.5	1303.8	778.1	790.1	844.4	840.0	868.4	877.8	845.7	803.4	805.3
35°	2046.6	1180.8	737.7	763.0	803.4	805.3	833.7	800.8	766.1	745.9	747.2
37.5°	1999.9	1084.8	711.2	739.6	751.0	775.0	759.8	742.8	738.4	724.5	725.1
40°	1972.1	1000.9	694.2	721.3	719.4	735.8	687.3	704.3	710.6	706.2	706.8
42.5°	1944.4	941.6	676.5	696.1	695.5	663.3	652.5	667.1	683.5	685.4	684.1
45°	1922.3	895.5	658.2	657.6	670.2	619.7	616.6	625.4	648.8	660.1	659.5
47.5°	1897.7	857.0	630.5	612.8	616.6	592.6	587.5	591.3	619.7	638.0	643.1
50°	1866.8	818.5	595.7	571.8	556.0	567.3	568.6	569.2	597.6	618.5	622.9
52.5°	1842.1	789.5	556.0	538.3	519.4	544.6	554.1	555.4	572.4	589.4	592.6
55°	1856.7	773.1	516.9	504.2	487.2	521.3	539.6	542.1	545.9	558.5	560.4
57.5°	1900.2	776.9	485.3	468.9	456.3	493.5	524.4	526.3	523.8	538.9	541.5
60°	1913.5	775.0	462.0	429.8	422.2	463.8	502.3	506.1	505.5	527.6	532.0
62.5°	1857.9	751.0	438.6	397.0	391.9	433.6	471.4	486.6	489.7	521.3	527.0
65°	1727.3	701.8	407.7	362.2	362.2	401.4	441.8	462.6	471.4	513.7	520.0
67.5°	1555.0	643.7	376.1	332.6	331.3	370.4	410.2	431.7	445.5	503.0	506.8
70°	1290.6	565.5	337.0	300.4	300.4	335.7	371.7	397.6	417.8	482.8	482.8
72.5°	884.2	470.2	289.7	263.8	264.4	297.2	333.8	362.9	386.9	442.4	443.7
75°	559.1	367.3	237.9	224.7	227.2	258.1	296.0	326.3	374.2	437.3	439.2
77.5°	297.2	258.1	189.3	186.2	189.3	217.7	260.0	301.7	375.5	379.3	373.0
80°	192.5	183.0	149.6	143.3	144.5	175.4	231.6	286.5	301.7	305.4	291.6
82.5°	104.8	116.1	106.0	99.7	99.7	136.9	197.5	227.8	216.5	179.9	171.7
85°	44.8	54.3	54.9	48.0	46.1	84.6	132.5	124.3	115.5	110.4	109.2
87.5°	12.6	17.7	17.7	13.3	10.1	23.4	26.5	7.6	0.0	0.6	1.3
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)