

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: P530560

Luminaire Tested: **GALN-SA5D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31504 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

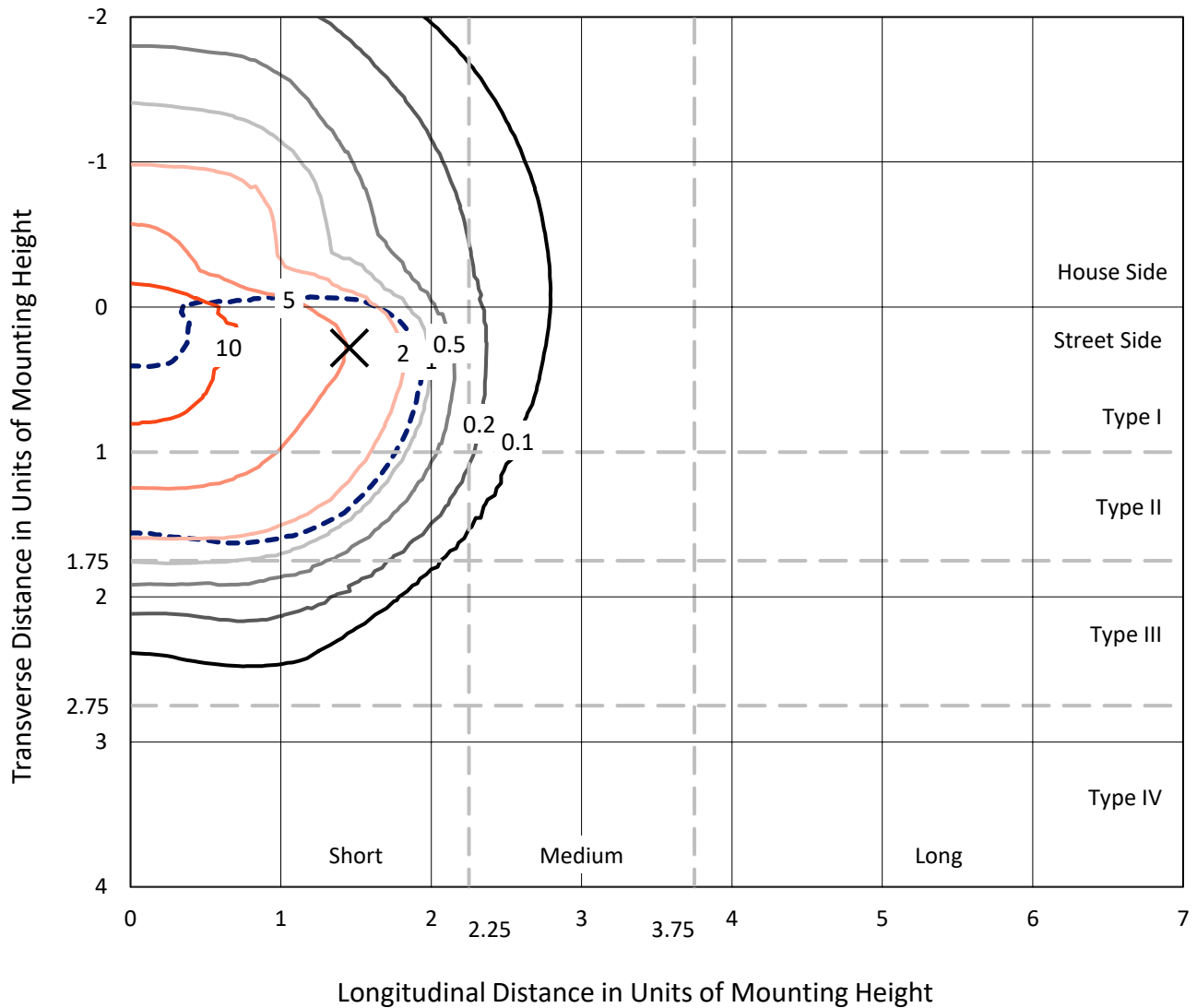
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530560
 CATALOG NUMBER: GALN-SA5D-735-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

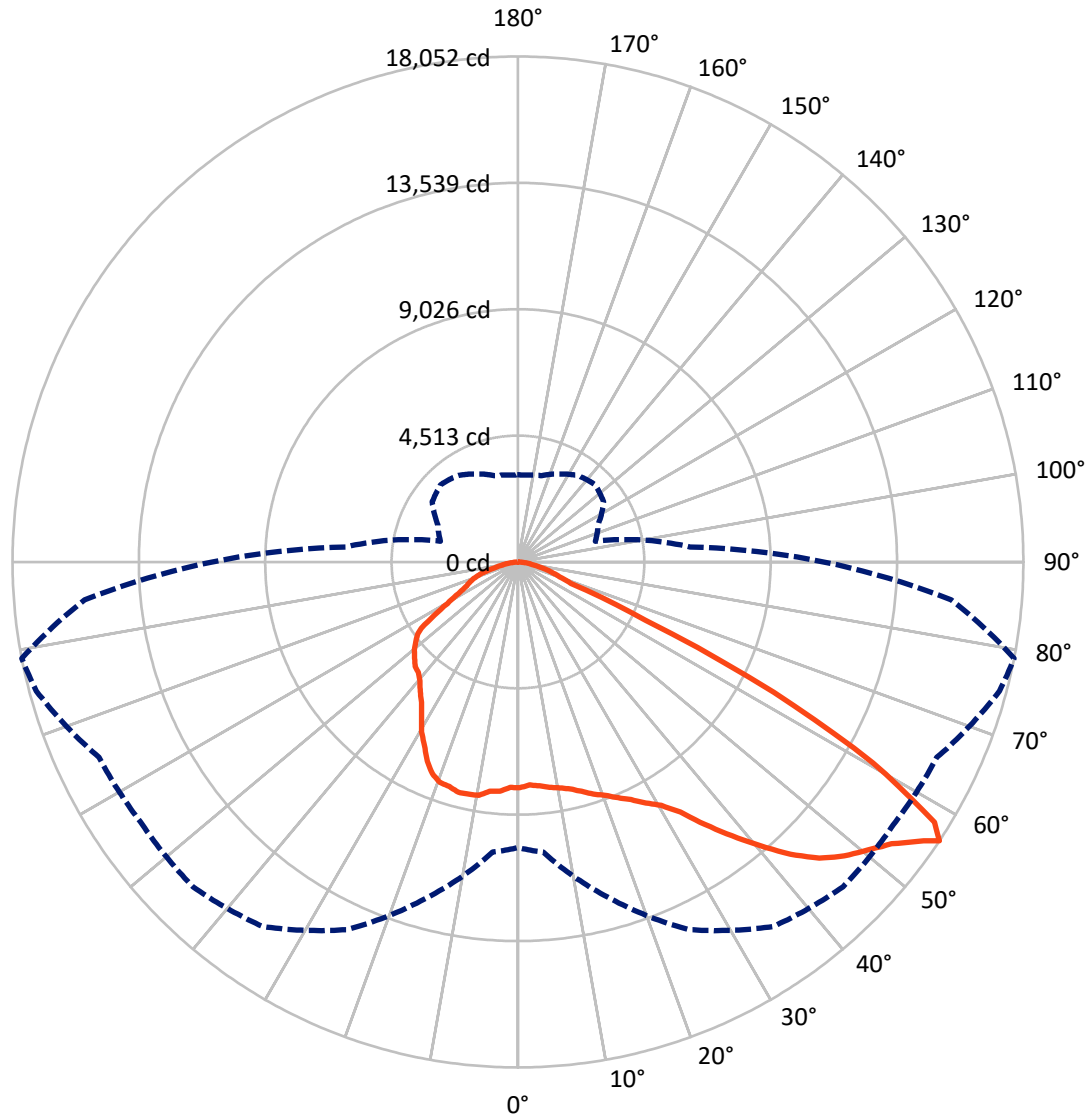
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

REPORT NUMBER: P530560
CATALOG NUMBER: GALN-SA5D-735-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9303.8	0.0	9303.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22200.2	0.0	22200.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	31504.0	0.0	31504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.9	2.3
10°-20°	2005.7	6.4
20°-30°	3431.3	10.9
30°-40°	5258.9	16.7
40°-50°	7107.3	22.6
50°-60°	8163.0	25.9
60°-70°	3720.9	11.8
70°-80°	917.4	2.9
80°-90°	166.7	0.5
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°	31504.0	100.0
0°-180°	31504.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530560

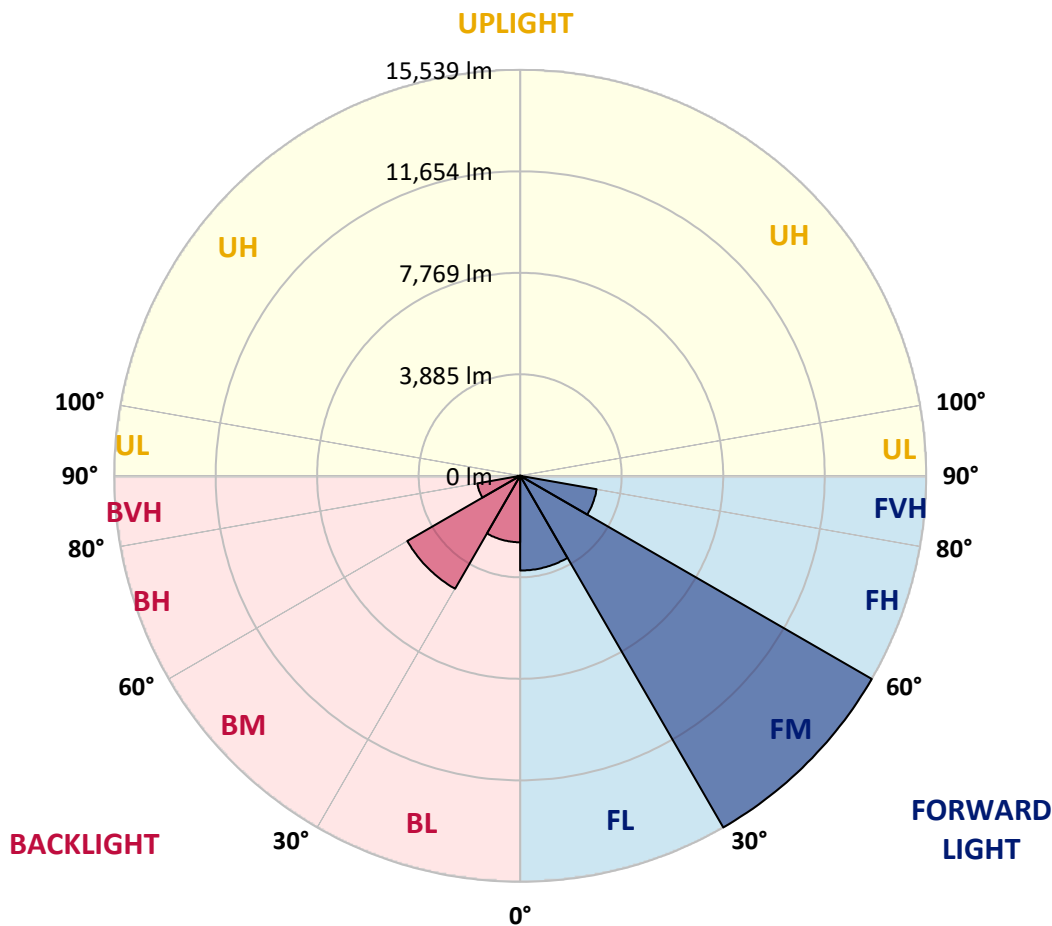
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3624.8	11.5			
FM (30°-60°)	15538.7	49.3			
FH (60°-80°)	2970.1	9.4			G2/5000
FVH (80°-90°)	66.6	0.2			G1/100
BL (0°-30°)	2545.0	8.1	B4/5000		
BM (30°-60°)	4990.4	15.8	B3/5000		
BH (60°-80°)	1668.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	100.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6
2.5°	7668.2	7648.6	7695.7	7731.0	7774.1	7829.1	7856.6	7872.3	8009.6	7974.3	8080.2
5°	7503.4	7452.4	7487.7	7515.1	7589.7	7656.4	7731.0	7848.7	7974.3	8029.2	8158.7
7.5°	7358.2	7330.7	7322.8	7342.5	7444.5	7530.8	7660.3	7833.0	8037.1	8127.3	8201.9
10°	7118.8	7079.5	7138.4	7267.9	7295.4	7475.9	7625.0	7872.3	8048.9	8205.8	8425.6
12.5°	7012.8	6973.6	6985.4	7059.9	7252.2	7424.9	7601.5	7880.1	8252.9	8315.7	8610.0
15°	7181.6	7142.3	7154.1	7134.5	7318.9	7409.2	7687.8	8037.1	8394.2	8500.2	8814.1
17.5°	7566.2	7570.1	7519.1	7475.9	7432.7	7625.0	7817.3	8131.3	8449.1	8716.0	8951.5
20°	8300.0	8170.5	8068.5	7825.2	7758.5	7840.9	8084.2	8386.3	8672.8	8892.6	9159.4
22.5°	8865.1	8876.9	8731.7	8331.4	8186.2	8221.5	8429.5	8676.7	8990.7	9147.7	9453.8
25°	9685.3	9602.9	9445.9	9128.1	8802.3	8829.8	8982.8	9206.5	9292.9	9402.8	9736.3
27.5°	10434.9	10458.4	10148.4	9850.1	9445.9	9367.4	9642.1	9681.4	9536.2	9744.2	9858.0
30°	11196.2	11176.6	10972.5	10623.2	10226.9	10242.6	10364.2	10171.9	9971.8	10085.6	10164.1
32.5°	11985.0	11761.3	11753.4	11439.5	11137.3	10992.1	10843.0	10937.2	10627.2	10650.7	10576.1
35°	12616.8	12648.2	12467.7	12244.0	12094.9	11839.8	11431.6	11600.4	11541.5	11514.1	11192.3
37.5°	13076.0	12954.3	13044.6	12970.0	12828.7	12510.8	12087.0	12247.9	12275.4	12408.8	12036.0
40°	13452.7	13401.7	13641.1	13680.3	13582.2	12895.4	12134.1	12612.9	13024.9	13315.3	12871.9
42.5°	13633.2	13743.1	13994.3	14296.4	14076.7	13342.8	12377.4	12891.5	13809.8	14269.0	13664.6
45°	13876.5	13735.2	14108.1	14661.4	14665.3	13719.5	12612.9	13268.2	14422.0	15089.1	14206.2
47.5°	13629.3	13699.9	14084.5	14787.0	14967.5	14115.9	13248.6	13802.0	15097.0	15689.6	14708.5
50°	13076.0	13217.2	13919.7	14649.6	15195.1	14535.8	13978.6	14378.8	15721.0	16172.3	14790.9
52.5°	12499.1	12577.6	13676.4	14755.6	15297.1	15077.4	14955.7	15175.5	16482.3	16717.8	14892.9
55°	10929.3	11302.1	12871.9	14708.5	15795.5	16054.5	15960.4	16282.2	17345.7	17581.1	15450.2
56°	10203.3	10399.5	12389.2	14488.7	15893.6	16411.7	16364.6	16509.8	17804.8	18052.0	15536.5
57.5°	8861.2	8876.9	10564.4	13515.5	15524.8	16517.6	16470.5	16584.3	17714.5	17545.8	14779.1
60°	5545.1	5788.4	7189.4	10395.6	13201.5	15324.6	15591.5	14677.1	14936.1	14579.0	11498.4
62.5°	2872.6	2837.3	3767.4	6078.8	8763.1	10972.5	11219.7	11176.6	10776.3	10254.3	7511.2
65°	1432.4	1440.2	1970.0	3010.0	4489.5	5745.3	6435.9	6510.5	5447.0	5011.4	3563.3
67.5°	1040.0	1079.2	1416.7	1840.5	2115.2	2366.4	2900.1	2845.2	2154.5	2048.5	1899.4
70°	808.4	843.7	1149.8	1404.9	1275.4	1275.4	1389.2	1436.3	1534.4	1577.6	1628.6
72.5°	588.7	616.1	879.1	969.3	835.9	898.7	1040.0	1149.8	1251.9	1267.6	1326.4
75°	404.2	427.8	576.9	533.7	502.3	620.0	761.3	863.4	937.9	977.2	1012.5
77.5°	262.9	270.8	329.6	278.6	321.8	400.3	494.5	580.8	655.4	686.8	694.6
80°	117.7	129.5	141.3	176.6	223.7	286.5	353.2	423.8	470.9	482.7	506.2
82.5°	66.7	66.7	86.3	125.6	164.8	208.0	255.1	306.1	361.0	372.8	368.9
85°	35.3	35.3	51.0	74.6	102.0	121.7	117.7	121.7	129.5	149.1	145.2
87.5°	11.8	11.8	15.7	15.7	19.6	23.5	19.6	27.5	35.3	35.3	35.3
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°	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6	8060.6
2.5°	8048.9	8084.2	8037.1	8139.1	8139.1	8119.5	8021.4	8052.8	8076.3	8076.3	8095.9
5°	8201.9	8190.1	8221.5	8099.9	8025.3	7997.8	7836.9	7758.5	7691.7	7687.8	7628.9
7.5°	8288.2	8256.8	8245.1	8154.8	7825.2	7625.0	7279.7	7079.5	7036.4	6883.3	6942.2
10°	8425.6	8484.5	8425.6	7935.0	7475.9	7016.7	6679.3	6369.2	6247.6	6149.5	6090.6
12.5°	8708.1	8680.7	8339.3	7676.0	7032.4	6487.0	5984.6	5658.9	5537.3	5450.9	5443.1
15°	8947.5	8810.2	8288.2	7267.9	6341.8	5761.0	5348.9	5117.4	5062.4	5070.3	5105.6
17.5°	9029.9	8935.8	8021.4	6844.1	5827.7	5144.8	4952.5	4917.2	4968.2	5027.1	5042.8
20°	9159.4	9010.3	7911.5	6267.2	5191.9	4760.2	4748.5	4874.0	4968.2	5054.6	5066.3
22.5°	9430.2	9053.5	7554.4	5721.7	4756.3	4646.4	4760.2	4866.2	5011.4	5082.0	5019.3
25°	9508.7	8959.3	7052.1	5066.3	4481.6	4575.8	4697.5	4842.7	4944.7	4983.9	5011.4
27.5°	9575.4	8814.1	6373.2	4630.7	4395.3	4571.9	4697.5	4819.1	4874.0	4909.4	4940.8
30°	9763.8	8770.9	5784.5	4340.3	4340.3	4493.4	4654.3	4685.7	4760.2	4803.4	4858.4
32.5°	9858.0	8472.7	5180.1	4155.9	4285.4	4532.6	4544.4	4603.3	4607.2	4642.5	4583.6
35°	10105.2	8260.8	4619.0	4022.5	4308.9	4493.4	4552.3	4516.9	4324.6	4230.5	4250.1
37.5°	10285.7	8154.8	4214.8	4006.8	4312.9	4536.6	4567.9	4301.1	4101.0	3944.0	3983.2
40°	10772.4	7891.9	3908.7	3979.3	4348.2	4583.6	4497.3	4206.9	3845.9	3685.0	3657.5
42.5°	11145.2	7703.5	3716.4	3947.9	4375.7	4650.4	4462.0	4018.5	3649.7	3500.5	3539.8
45°	11576.8	7660.3	3614.3	3955.8	4422.7	4685.7	4418.8	3873.3	3480.9	3422.0	3410.3
47.5°	11729.9	7350.3	3504.4	3889.0	4411.0	4673.9	4273.6	3763.5	3418.1	3426.0	3457.4
50°	11474.8	7032.4	3422.0	3751.7	4332.5	4567.9	4046.0	3618.3	3382.8	3480.9	3535.8
52.5°	11149.1	6706.7	3253.3	3567.2	4171.6	4403.1	3940.1	3610.4	3347.5	3316.1	3327.9
55°	11247.2	6439.9	3017.8	3316.1	3912.6	4097.0	3822.3	3535.8	3261.1	3143.4	3182.7
56°	10929.3	6165.2	2864.8	3159.1	3736.0	3900.8	3763.5	3469.1	3190.5	3112.0	3112.0
57.5°	10030.7	5242.9	2664.6	2907.9	3363.2	3559.4	3649.7	3429.9	3112.0	2974.7	2978.6
60°	7397.4	3728.1	2389.9	2562.6	2786.3	2943.3	3363.2	3320.0	2915.8	2821.6	2786.3
62.5°	4560.1	2723.5	2193.7	2260.4	2374.2	2503.7	2935.4	3006.1	2707.8	2605.8	2582.2
65°	2554.8	2083.8	2044.6	2072.1	2127.0	2193.7	2437.0	2594.0	2389.9	2233.0	2225.1
67.5°	1868.0	1864.1	1895.5	1919.0	1942.6	1942.6	2001.4	2064.2	2036.7	1911.2	1899.4
70°	1660.0	1671.8	1695.3	1699.2	1707.1	1679.6	1632.5	1612.9	1644.3	1565.8	1550.1
72.5°	1369.6	1408.8	1436.3	1440.2	1397.1	1361.8	1299.0	1232.2	1208.7	1193.0	1189.1
75°	1051.7	1079.2	1091.0	1087.0	1071.3	1020.3	945.8	879.1	835.9	788.8	812.3
77.5°	710.3	749.6	769.2	769.2	745.6	667.1	631.8	580.8	537.6	486.6	494.5
80°	498.4	525.9	557.3	553.3	514.1	474.8	423.8	376.7	341.4	302.2	298.3
82.5°	372.8	388.5	404.2	396.4	368.9	329.6	294.3	251.2	211.9	184.4	184.4
85°	133.4	145.2	176.6	184.4	200.1	200.1	168.7	141.3	113.8	94.2	94.2
87.5°	39.2	39.2	43.2	43.2	39.2	43.2	35.3	39.2	43.2	27.5	27.5
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)