

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: P529882

Luminaire Tested: **GALN-SA5A-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19526 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

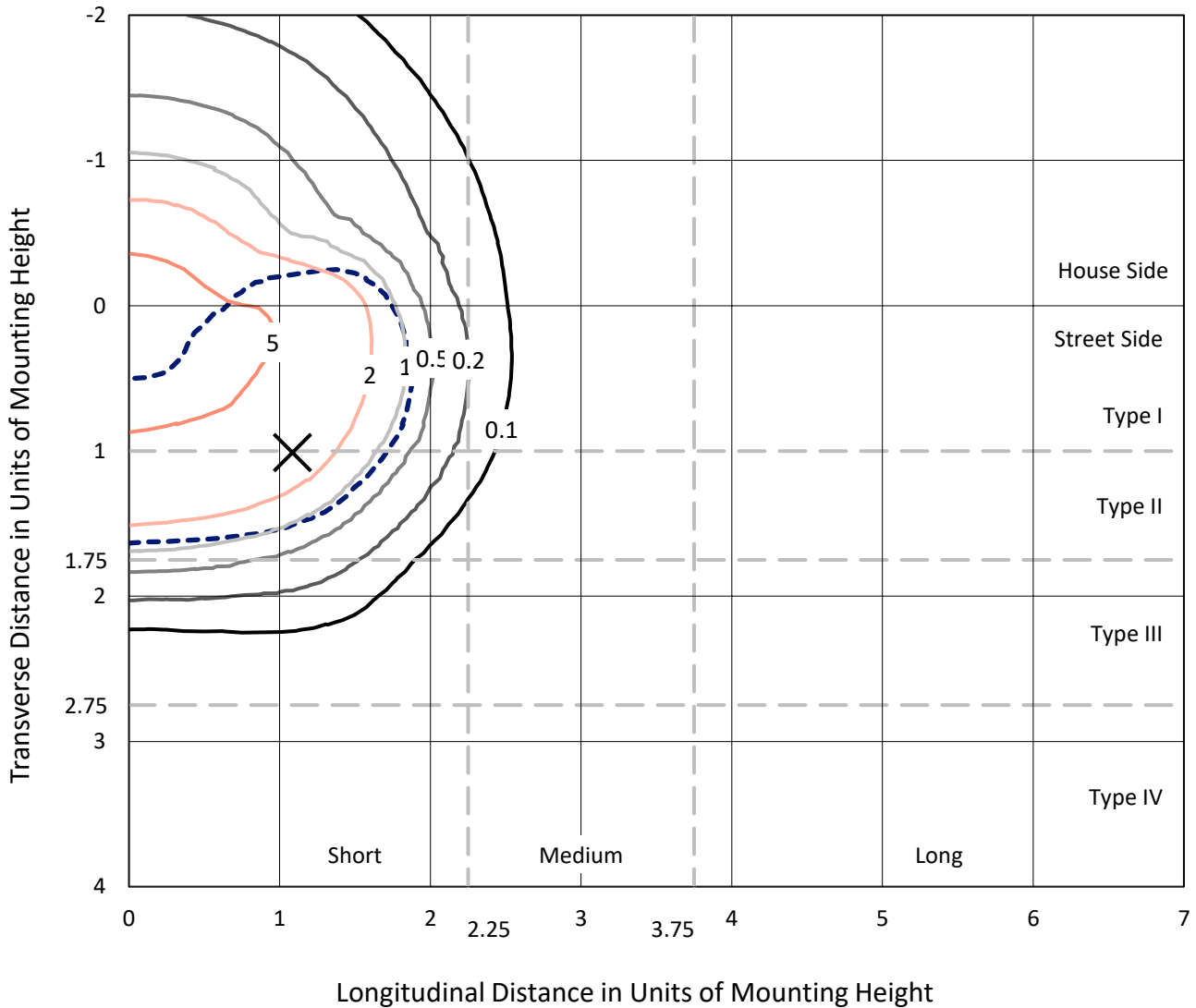
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

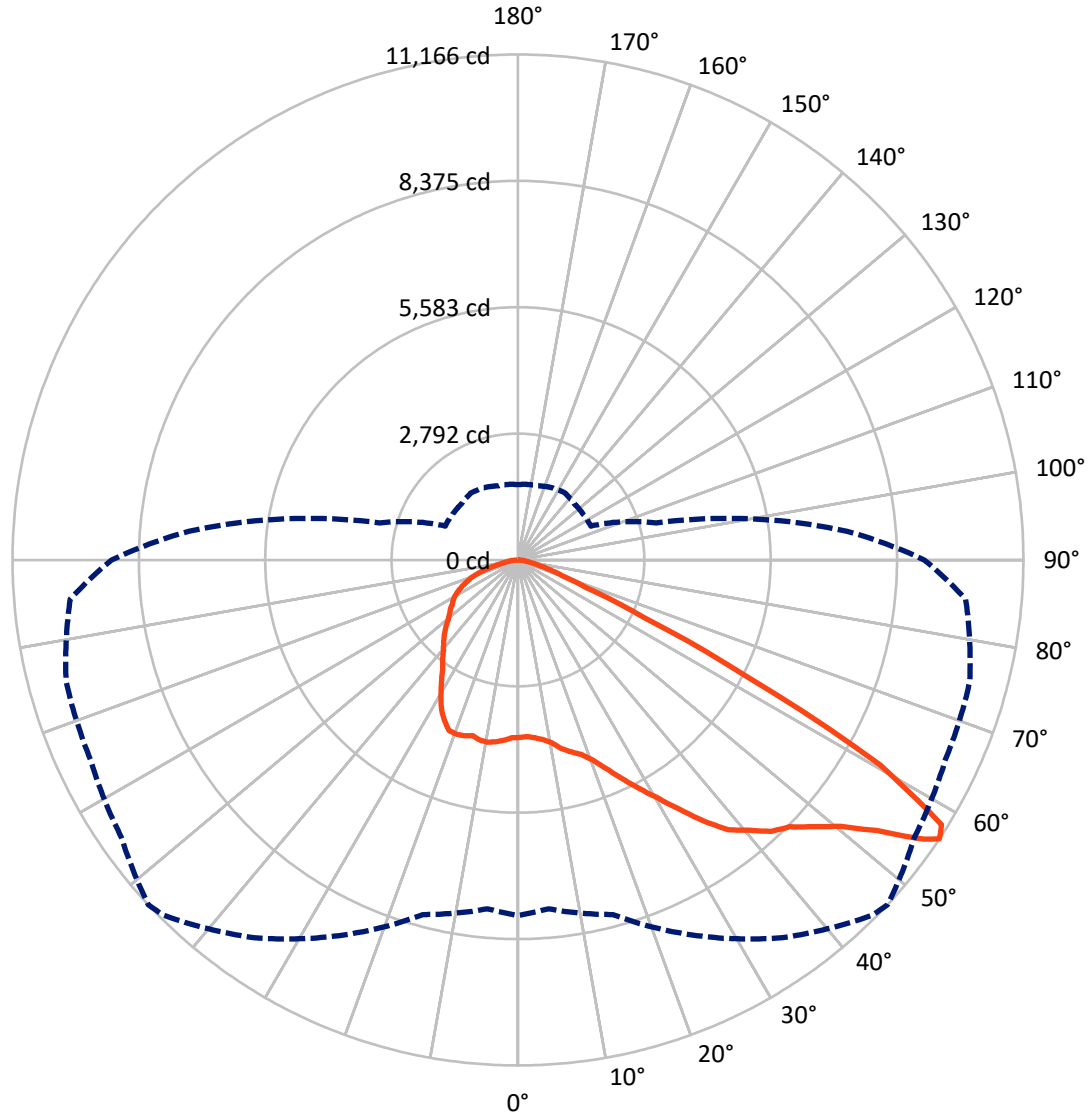
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6187.6	0.0	6187.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13338.5	0.0	13338.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	19526.0	0.0	19526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	2.0
10°-20°	1205.5	6.2
20°-30°	2131.1	10.9
30°-40°	3200.8	16.4
40°-50°	4392.8	22.5
50°-60°	5233.5	26.8
60°-70°	2239.6	11.5
70°-80°	633.8	3.2
80°-90°	106.7	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°	19526.0	100.0
0°-180°	19526.0	100.0

Coefficient of Utilization



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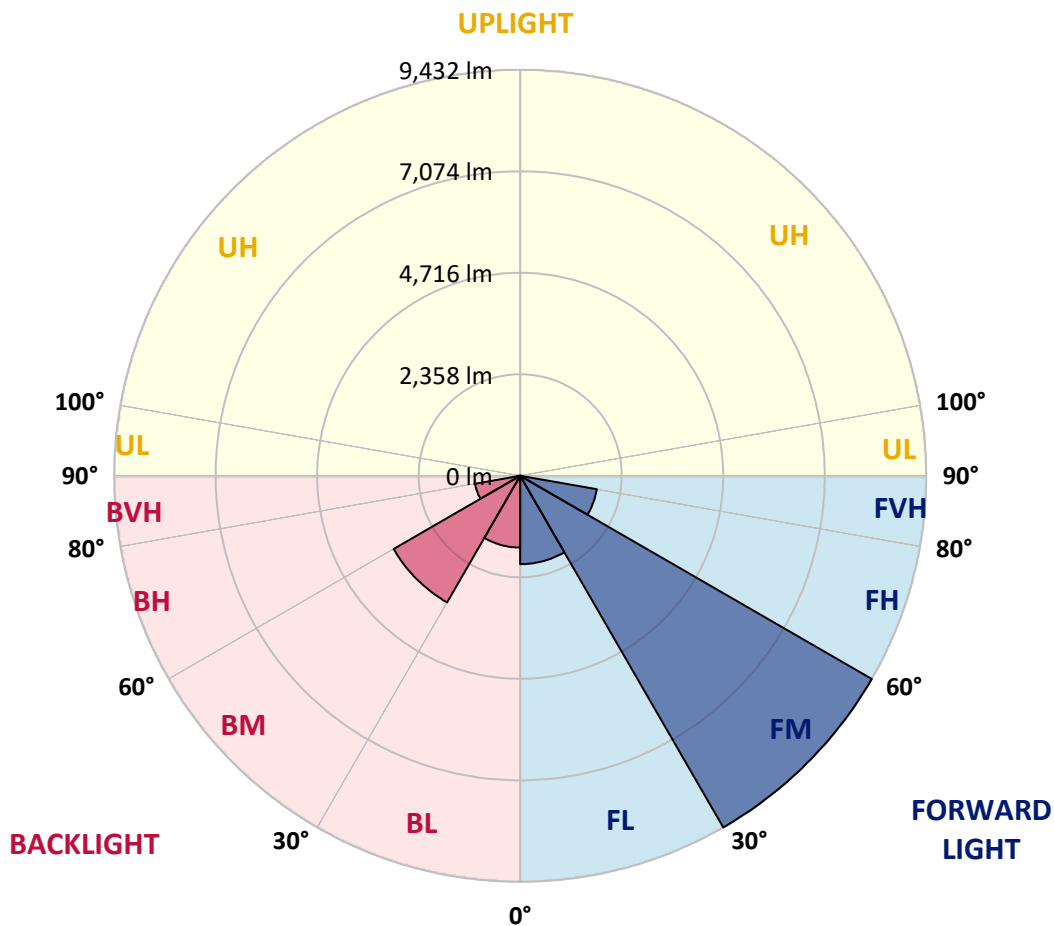
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.8	10.5			
FM (30°-60°)	9431.5	48.3			
FH (60°-80°)	1808.8	9.3			G2/5000
FVH (80°-90°)	45.3	0.2			G1/100
BL (0°-30°)	1665.9	8.5	B3/2500		
BM (30°-60°)	3395.6	17.4	B3/5000		
BH (60°-80°)	1064.6	5.5	B3/2500		G3/2500
BVH (80°-90°)	61.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2
2.5°	3907.2	3899.8	3894.8	3934.6	3919.7	3922.2	3907.2	3922.2	3932.1	3909.7	3942.1
5°	3899.8	3922.2	3902.3	3914.7	3947.1	3937.1	3947.1	3977.0	3969.5	3962.0	3952.1
7.5°	3969.5	3972.0	3986.9	3991.9	4001.9	3991.9	4006.8	4034.2	4026.8	3984.4	3989.4
10°	4069.1	4074.1	4076.6	4104.0	4121.4	4123.9	4106.5	4081.6	4079.1	4136.3	4096.5
12.5°	4183.7	4171.2	4201.1	4211.1	4231.0	4253.4	4275.8	4223.5	4255.9	4258.4	4211.1
15°	4350.5	4363.0	4328.1	4328.1	4335.6	4338.1	4400.3	4375.4	4370.4	4343.0	4363.0
17.5°	4599.5	4514.9	4512.4	4477.5	4472.5	4492.5	4514.9	4534.8	4602.0	4547.2	4440.2
20°	4781.3	4801.2	4729.0	4686.7	4694.2	4739.0	4716.6	4806.2	4853.5	4763.9	4659.3
22.5°	5102.6	5035.3	5052.8	4958.1	4965.6	5012.9	5010.4	5102.6	5130.0	4988.0	4836.1
25°	5319.2	5301.8	5316.7	5242.0	5252.0	5289.3	5349.1	5501.0	5456.2	5299.3	4948.2
27.5°	5635.5	5600.6	5588.2	5560.8	5550.8	5650.4	5720.2	5882.0	5849.7	5620.5	5147.4
30°	5959.2	5936.8	5949.3	5837.2	5877.0	6088.7	6108.6	6330.3	6315.3	5911.9	5369.0
32.5°	6183.3	6195.8	6218.2	6156.0	6332.8	6502.1	6569.3	6820.9	6833.3	6412.5	5797.4
35°	6544.4	6502.1	6514.6	6586.8	6669.0	6977.7	7087.3	7254.2	7358.8	6937.9	6208.3
37.5°	6771.1	6815.9	6763.6	6878.1	7092.3	7463.3	7563.0	7734.8	7844.4	7455.9	6768.6
40°	7124.7	7052.5	7089.8	7172.0	7391.1	7874.2	7846.9	8023.7	8058.5	7896.7	7291.5
42.5°	7505.7	7470.8	7418.5	7605.3	7789.6	8140.7	8195.5	8113.3	8290.1	8327.5	8038.6
45°	7961.4	8003.7	8011.2	8016.2	8178.1	8484.4	8409.7	8337.4	8541.6	8813.1	8501.8
47.5°	8384.7	8250.3	8347.4	8481.9	8711.0	8713.5	8800.6	8628.8	8845.5	9087.0	8920.2
50°	8526.7	8461.9	8591.4	8845.5	9199.1	9236.4	9246.4	9002.3	9114.4	9306.2	9064.6
52.5°	8471.9	8449.5	8780.7	9174.2	9692.1	9881.4	9931.2	9629.9	9692.1	9605.0	9383.3
55°	8210.4	8277.7	8611.4	9413.2	10207.6	10792.8	10887.5	10506.5	10110.5	10177.7	9933.7
56°	7851.8	7734.8	8108.3	9141.8	10185.2	11089.2	11166.4	10690.7	10421.8	10334.6	9928.7
57.5°	6661.5	6509.6	7000.2	8225.4	9619.9	10977.1	11034.4	10767.9	10369.5	10192.7	9204.0
60°	3899.8	3974.5	4597.0	5672.8	7421.0	8999.8	9191.6	9385.8	9119.4	8327.5	6850.7
62.5°	1882.6	1835.3	2281.1	3252.3	4522.3	5745.1	5687.8	6233.2	6532.0	5916.9	4325.6
65°	986.1	981.2	1245.1	1775.6	2485.3	3018.2	3070.5	3364.4	3775.3	3048.1	2196.4
67.5°	724.7	744.6	876.6	1247.6	1598.8	1631.1	1623.7	1770.6	1810.4	1531.5	1349.7
70°	567.8	577.7	674.9	948.8	1190.4	1065.8	1043.4	1060.9	1177.9	1227.7	1167.9
72.5°	410.9	420.9	503.0	640.0	744.6	727.2	742.1	839.2	983.7	1036.0	973.7
75°	273.9	281.4	326.2	391.0	440.8	475.6	503.0	615.1	749.6	779.5	749.6
77.5°	189.3	196.7	226.6	276.4	281.4	303.8	313.8	366.1	448.2	485.6	465.7
80°	107.1	107.1	122.0	141.9	174.3	204.2	209.2	251.5	288.9	313.8	318.8
82.5°	49.8	52.3	64.7	87.2	114.6	141.9	146.9	174.3	201.7	226.6	234.1
85°	24.9	27.4	37.4	52.3	69.7	84.7	82.2	84.7	89.6	84.7	87.2
87.5°	7.5	7.5	10.0	12.5	10.0	12.5	12.5	14.9	17.4	19.9	22.4
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°	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2	3922.2
2.5°	3944.6	3952.1	3902.3	3949.6	3932.1	3929.7	3964.5	3959.5	3972.0	3967.0	3937.1
5°	3947.1	3929.7	3981.9	3934.6	3957.0	4004.4	3972.0	4046.7	4009.3	4034.2	3979.5
7.5°	4024.3	4029.3	4019.3	4039.2	4029.3	4051.7	4034.2	4051.7	4021.8	4024.3	4074.1
10°	4091.5	4076.6	4094.0	4069.1	4086.5	4079.1	4039.2	4026.8	4036.7	4024.3	4056.7
12.5°	4216.0	4188.6	4176.2	4146.3	4126.4	4051.7	3989.4	3954.6	4001.9	4009.3	3994.4
15°	4343.0	4345.5	4288.3	4221.0	4096.5	3984.4	3999.4	4011.8	4011.8	4031.8	3994.4
17.5°	4422.7	4422.7	4370.4	4236.0	4109.0	4044.2	4029.3	3989.4	3954.6	3949.6	3947.1
20°	4562.2	4519.8	4400.3	4233.5	4104.0	4074.1	3962.0	3867.4	3795.2	3770.3	3767.8
22.5°	4721.6	4614.5	4447.6	4238.4	4096.5	4054.2	3845.0	3703.0	3573.5	3518.8	3526.2
25°	4868.5	4696.7	4475.0	4216.0	4069.1	3864.9	3630.8	3434.1	3299.6	3254.8	3232.4
27.5°	4970.6	4783.8	4475.0	4236.0	3967.0	3653.2	3414.2	3162.6	3045.6	3015.7	3020.7
30°	5107.6	4893.4	4552.2	4193.6	3762.8	3379.3	3092.9	2928.6	2858.8	2833.9	2851.4
32.5°	5428.8	5179.8	4659.3	4091.5	3521.2	3105.4	2873.8	2781.6	2679.5	2629.7	2612.3
35°	5777.4	5451.2	4763.9	3919.7	3249.8	2856.3	2711.9	2627.2	2505.2	2450.4	2460.4
37.5°	6270.5	5799.8	4771.4	3635.8	2956.0	2716.9	2584.9	2452.9	2353.3	2268.6	2243.7
40°	6935.4	6275.5	4753.9	3337.0	2719.4	2552.5	2455.4	2291.1	2179.0	2119.2	2131.7
42.5°	7520.6	6833.3	4681.7	2998.3	2505.2	2440.5	2330.9	2169.0	2059.5	1997.2	1992.2
45°	8013.7	7244.2	4544.7	2709.4	2325.9	2316.0	2189.0	2064.4	1977.3	1920.0	1944.9
47.5°	8469.4	7575.4	4338.1	2420.5	2161.6	2181.5	2059.5	1982.3	1927.5	1875.2	1872.7
50°	8633.8	7570.4	4156.3	2181.5	2029.6	2019.6	2014.6	1932.5	1875.2	1830.4	1850.3
52.5°	8907.7	7655.1	3959.5	2017.1	1910.0	1912.5	1930.0	1870.2	1805.4	1778.1	1803.0
55°	9301.2	7667.6	3526.2	1825.4	1810.4	1827.9	1827.9	1788.0	1733.2	1710.8	1698.4
56°	8979.9	7296.5	3162.6	1775.6	1760.6	1760.6	1807.9	1763.1	1695.9	1678.4	1663.5
57.5°	8282.6	6392.5	2647.2	1715.8	1693.4	1728.2	1753.2	1705.8	1643.6	1618.7	1633.6
60°	5712.7	4325.6	1989.7	1586.3	1586.3	1643.6	1663.5	1593.8	1566.4	1563.9	1544.0
62.5°	3334.5	2520.2	1556.4	1469.3	1474.2	1521.6	1536.5	1496.7	1461.8	1504.1	1524.0
65°	1768.1	1504.1	1334.8	1344.7	1347.2	1384.6	1449.3	1446.8	1444.4	1456.8	1459.3
67.5°	1280.0	1250.1	1212.8	1202.8	1207.8	1235.2	1299.9	1349.7	1347.2	1317.4	1294.9
70°	1140.5	1098.2	1075.8	1078.3	1058.4	1090.7	1143.0	1175.4	1118.1	1083.3	1068.3
72.5°	948.8	936.3	921.4	923.9	884.0	876.6	816.8	816.8	801.9	791.9	809.3
75°	724.7	719.7	727.2	714.7	672.4	627.5	592.7	560.3	510.5	490.6	480.6
77.5°	458.2	473.2	490.6	463.2	445.8	413.4	378.5	346.1	306.3	283.9	283.9
80°	311.3	323.7	336.2	331.2	311.3	281.4	254.0	219.1	191.8	174.3	171.8
82.5°	236.6	246.5	264.0	244.0	224.1	199.2	176.8	151.9	127.0	107.1	107.1
85°	84.7	97.1	107.1	117.0	124.5	127.0	109.6	89.6	72.2	57.3	54.8
87.5°	22.4	24.9	27.4	24.9	24.9	24.9	27.4	24.9	22.4	17.4	17.4
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)