

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: P529856

Luminaire Tested: **GALN-SA5A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529856
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-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 18189 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

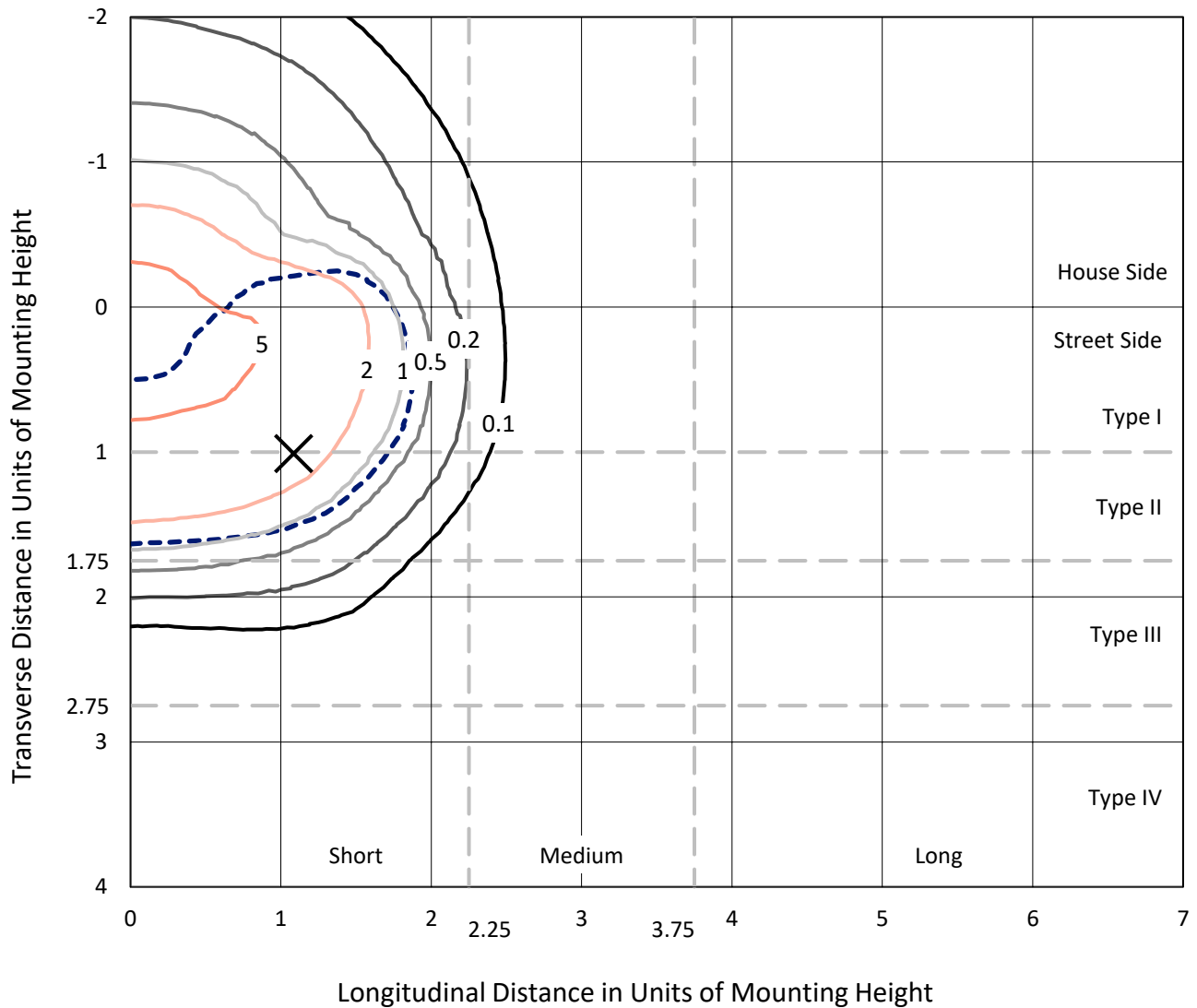
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

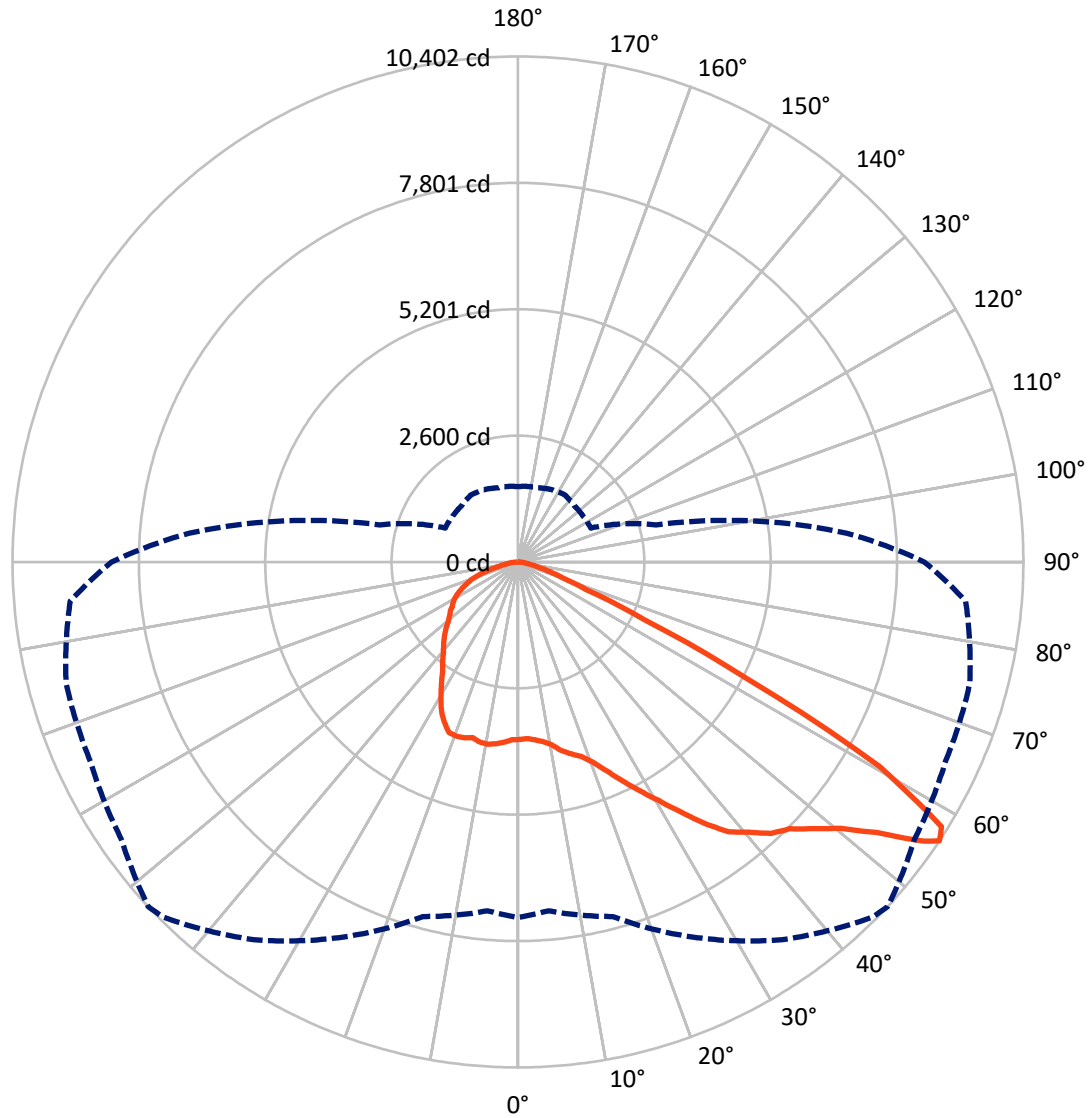
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	5763.9	0.0	5763.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	12425.1	0.0	12425.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	18189.0	0.0	18189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.0	2.0
10°-20°	1123.0	6.2
20°-30°	1985.2	10.9
30°-40°	2981.7	16.4
40°-50°	4092.0	22.5
50°-60°	4875.1	26.8
60°-70°	2086.3	11.5
70°-80°	590.4	3.2
80°-90°	99.4	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°	18189.0	100.0
0°-180°	18189.0	100.0

Coefficient of Utilization



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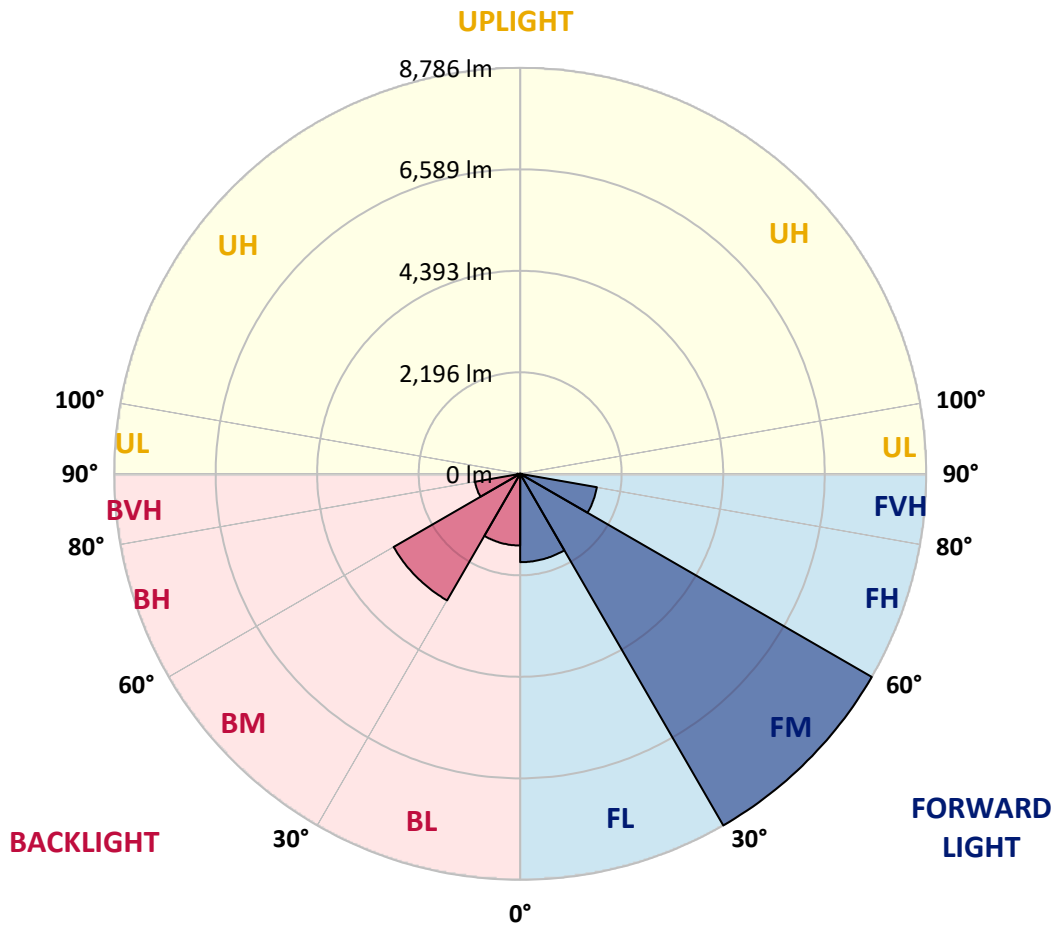
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.3	10.5			
FM (30°-60°)	8785.7	48.3			
FH (60°-80°)	1685.0	9.3			G1/1800
FVH (80°-90°)	42.2	0.2			G1/100
BL (0°-30°)	1551.9	8.5	B3/2500		
BM (30°-60°)	3163.1	17.4	B3/5000		
BH (60°-80°)	991.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	57.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3639.7	3632.7	3628.1	3665.2	3651.3	3653.6	3639.7	3653.6	3662.9	3642.0	3672.2
5°	3632.7	3653.6	3635.1	3646.7	3676.8	3667.5	3676.8	3704.7	3697.7	3690.7	3681.5
7.5°	3697.7	3700.0	3713.9	3718.6	3727.8	3718.6	3732.5	3758.0	3751.0	3711.6	3716.3
10°	3790.5	3795.1	3797.4	3823.0	3839.2	3841.5	3825.3	3802.1	3799.8	3853.1	3816.0
12.5°	3897.2	3885.6	3913.4	3922.7	3941.3	3962.1	3983.0	3934.3	3964.5	3966.8	3922.7
15°	4052.6	4064.2	4031.7	4031.7	4038.7	4041.0	4099.0	4075.8	4071.2	4045.7	4064.2
17.5°	4284.6	4205.7	4203.4	4170.9	4166.3	4184.8	4205.7	4224.3	4286.9	4235.9	4136.1
20°	4453.9	4472.5	4405.2	4365.8	4372.7	4414.5	4393.6	4477.1	4521.2	4437.7	4340.3
22.5°	4753.2	4690.5	4706.8	4618.6	4625.6	4669.7	4667.4	4753.2	4778.7	4646.5	4505.0
25°	4955.0	4938.8	4952.7	4883.1	4892.4	4927.2	4982.8	5124.3	5082.6	4936.4	4609.4
27.5°	5249.6	5217.1	5205.5	5180.0	5170.7	5263.5	5328.5	5479.3	5449.1	5235.7	4794.9
30°	5551.2	5530.3	5541.9	5437.5	5474.6	5671.8	5690.4	5896.8	5882.9	5507.1	5001.4
32.5°	5760.0	5771.6	5792.4	5734.4	5899.1	6056.9	6119.5	6353.8	6365.4	5973.4	5400.4
35°	6096.3	6056.9	6068.5	6135.8	6212.3	6500.0	6602.0	6757.5	6854.9	6462.8	5783.2
37.5°	6307.4	6349.2	6300.5	6407.2	6606.7	6952.3	7045.1	7205.2	7307.2	6945.4	6305.1
40°	6636.8	6569.6	6604.3	6680.9	6885.0	7335.1	7309.6	7474.3	7506.7	7355.9	6792.2
42.5°	6991.7	6959.3	6910.6	7084.5	7256.2	7583.3	7634.3	7557.8	7722.5	7757.3	7488.2
45°	7416.3	7455.7	7462.7	7467.3	7618.1	7903.4	7833.8	7766.5	7956.8	8209.6	7919.7
47.5°	7810.6	7685.4	7775.8	7901.1	8114.5	8116.8	8198.0	8038.0	8239.8	8464.8	8309.4
50°	7942.8	7882.5	8003.2	8239.8	8569.2	8604.0	8613.3	8385.9	8490.3	8668.9	8443.9
52.5°	7891.8	7870.9	8179.5	8546.0	9028.5	9204.8	9251.2	8970.5	9028.5	8947.3	8740.8
55°	7648.2	7710.9	8021.7	8768.7	9508.7	10053.8	10142.0	9787.1	9418.2	9480.8	9253.5
56°	7314.2	7205.2	7553.1	8515.8	9487.8	10329.9	10401.8	9958.7	9708.2	9627.0	9248.9
57.5°	6205.4	6063.8	6520.8	7662.2	8961.2	10225.5	10278.8	10030.6	9659.5	9494.8	8573.8
60°	3632.7	3702.3	4282.3	5284.4	6912.9	8383.6	8562.2	8743.2	8495.0	7757.3	6381.7
62.5°	1753.7	1709.7	2124.9	3029.6	4212.7	5351.7	5298.3	5806.4	6084.7	5511.7	4029.4
65°	918.6	914.0	1159.9	1654.0	2315.1	2811.5	2860.3	3134.0	3516.8	2839.4	2046.0
67.5°	675.0	693.6	816.6	1162.2	1489.3	1519.4	1512.5	1649.3	1686.5	1426.7	1257.3
70°	528.9	538.2	628.7	883.8	1108.8	992.9	972.0	988.2	1097.2	1143.6	1088.0
72.5°	382.8	392.0	468.6	596.2	693.6	677.4	691.3	781.8	916.3	965.0	907.0
75°	255.2	262.1	303.9	364.2	410.6	443.1	468.6	573.0	698.2	726.1	698.2
77.5°	176.3	183.3	211.1	257.5	262.1	283.0	292.3	341.0	417.6	452.4	433.8
80°	99.7	99.7	113.7	132.2	162.4	190.2	194.9	234.3	269.1	292.3	296.9
82.5°	46.4	48.7	60.3	81.2	106.7	132.2	136.9	162.4	187.9	211.1	218.1
85°	23.2	25.5	34.8	48.7	65.0	78.9	76.6	78.9	83.5	78.9	81.2
87.5°	7.0	7.0	9.3	11.6	9.3	11.6	11.6	13.9	16.2	18.6	20.9
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°	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6	3653.6
2.5°	3674.5	3681.5	3635.1	3679.1	3662.9	3660.6	3693.1	3688.4	3700.0	3695.4	3667.5
5°	3676.8	3660.6	3709.3	3665.2	3686.1	3730.2	3700.0	3769.6	3734.8	3758.0	3707.0
7.5°	3748.7	3753.4	3744.1	3762.6	3753.4	3774.2	3758.0	3774.2	3746.4	3748.7	3795.1
10°	3811.4	3797.4	3813.7	3790.5	3806.7	3799.8	3762.6	3751.0	3760.3	3748.7	3778.9
12.5°	3927.3	3901.8	3890.2	3862.4	3843.8	3774.2	3716.3	3683.8	3727.8	3734.8	3720.9
15°	4045.7	4048.0	3994.6	3932.0	3816.0	3711.6	3725.5	3737.1	3737.1	3755.7	3720.9
17.5°	4119.9	4119.9	4071.2	3945.9	3827.6	3767.3	3753.4	3716.3	3683.8	3679.1	3676.8
20°	4249.8	4210.4	4099.0	3943.6	3823.0	3795.1	3690.7	3602.6	3535.3	3512.1	3509.8
22.5°	4398.3	4298.5	4143.1	3948.2	3816.0	3776.6	3581.7	3449.5	3328.9	3277.8	3284.8
25°	4535.1	4375.1	4168.6	3927.3	3790.5	3600.3	3382.2	3198.9	3073.7	3031.9	3011.0
27.5°	4630.2	4456.3	4168.6	3945.9	3695.4	3403.1	3180.4	2946.1	2837.1	2809.2	2813.9
30°	4757.8	4558.3	4240.5	3906.5	3505.2	3147.9	2881.1	2728.0	2663.1	2639.9	2656.1
32.5°	5057.1	4825.1	4340.3	3811.4	3280.1	2892.7	2677.0	2591.2	2496.1	2449.7	2433.4
35°	5381.8	5077.9	4437.7	3651.3	3027.3	2660.8	2526.2	2447.3	2333.7	2282.6	2291.9
37.5°	5841.1	5402.7	4444.7	3386.8	2753.6	2530.9	2407.9	2285.0	2192.2	2113.3	2090.1
40°	6460.5	5845.8	4428.4	3108.5	2533.2	2377.8	2287.3	2134.2	2029.8	1974.1	1985.7
42.5°	7005.7	6365.4	4361.1	2793.0	2333.7	2273.4	2171.3	2020.5	1918.4	1860.4	1855.8
45°	7465.0	6748.2	4233.6	2523.9	2166.7	2157.4	2039.1	1923.1	1841.9	1788.5	1811.7
47.5°	7889.5	7056.7	4041.0	2254.8	2013.5	2032.1	1918.4	1846.5	1795.5	1746.8	1744.5
50°	8042.6	7052.1	3871.7	2032.1	1890.6	1881.3	1876.7	1800.1	1746.8	1705.0	1723.6
52.5°	8297.8	7130.9	3688.4	1879.0	1779.3	1781.6	1797.8	1742.1	1681.8	1656.3	1679.5
55°	8664.3	7142.5	3284.8	1700.4	1686.5	1702.7	1702.7	1665.6	1614.6	1593.7	1582.1
56°	8365.0	6796.9	2946.1	1654.0	1640.1	1640.1	1684.1	1642.4	1579.8	1563.5	1549.6
57.5°	7715.5	5954.8	2465.9	1598.3	1577.4	1609.9	1633.1	1589.0	1531.0	1507.8	1521.8
60°	5321.5	4029.4	1853.5	1477.7	1477.7	1531.0	1549.6	1484.6	1459.1	1456.8	1438.2
62.5°	3106.2	2347.6	1449.8	1368.7	1373.3	1417.4	1431.3	1394.2	1361.7	1401.1	1419.7
65°	1647.0	1401.1	1243.4	1252.7	1255.0	1289.8	1350.1	1347.8	1345.5	1357.1	1359.4
67.5°	1192.4	1164.5	1129.7	1120.4	1125.1	1150.6	1210.9	1257.3	1255.0	1227.2	1206.3
70°	1062.4	1023.0	1002.1	1004.5	985.9	1016.1	1064.8	1094.9	1041.6	1009.1	995.2
72.5°	883.8	872.2	858.3	860.6	823.5	816.6	760.9	760.9	747.0	737.7	753.9
75°	675.0	670.4	677.4	665.8	626.3	584.6	552.1	521.9	475.6	457.0	447.7
77.5°	426.8	440.8	457.0	431.5	415.2	385.1	352.6	322.4	285.3	264.5	264.5
80°	290.0	301.6	313.2	308.5	290.0	262.1	236.6	204.1	178.6	162.4	160.1
82.5°	220.4	229.7	245.9	227.3	208.8	185.6	164.7	141.5	118.3	99.7	99.7
85°	78.9	90.5	99.7	109.0	116.0	118.3	102.1	83.5	67.3	53.4	51.0
87.5°	20.9	23.2	25.5	23.2	23.2	23.2	25.5	23.2	20.9	16.2	16.2
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)