

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: P528712

Luminaire Tested: **GALN-SA3D-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528712
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-SA3D-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA 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: 19689 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

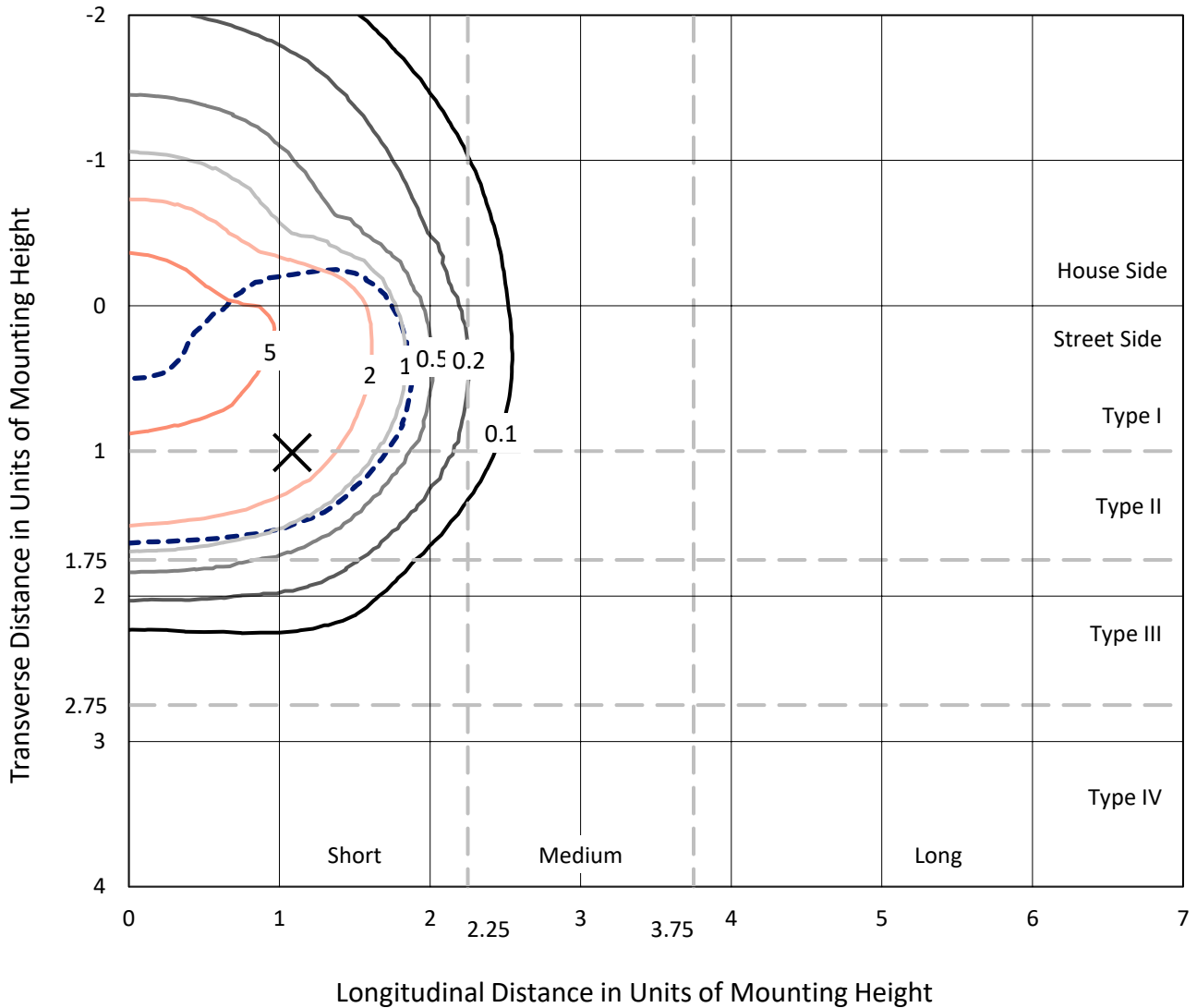
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

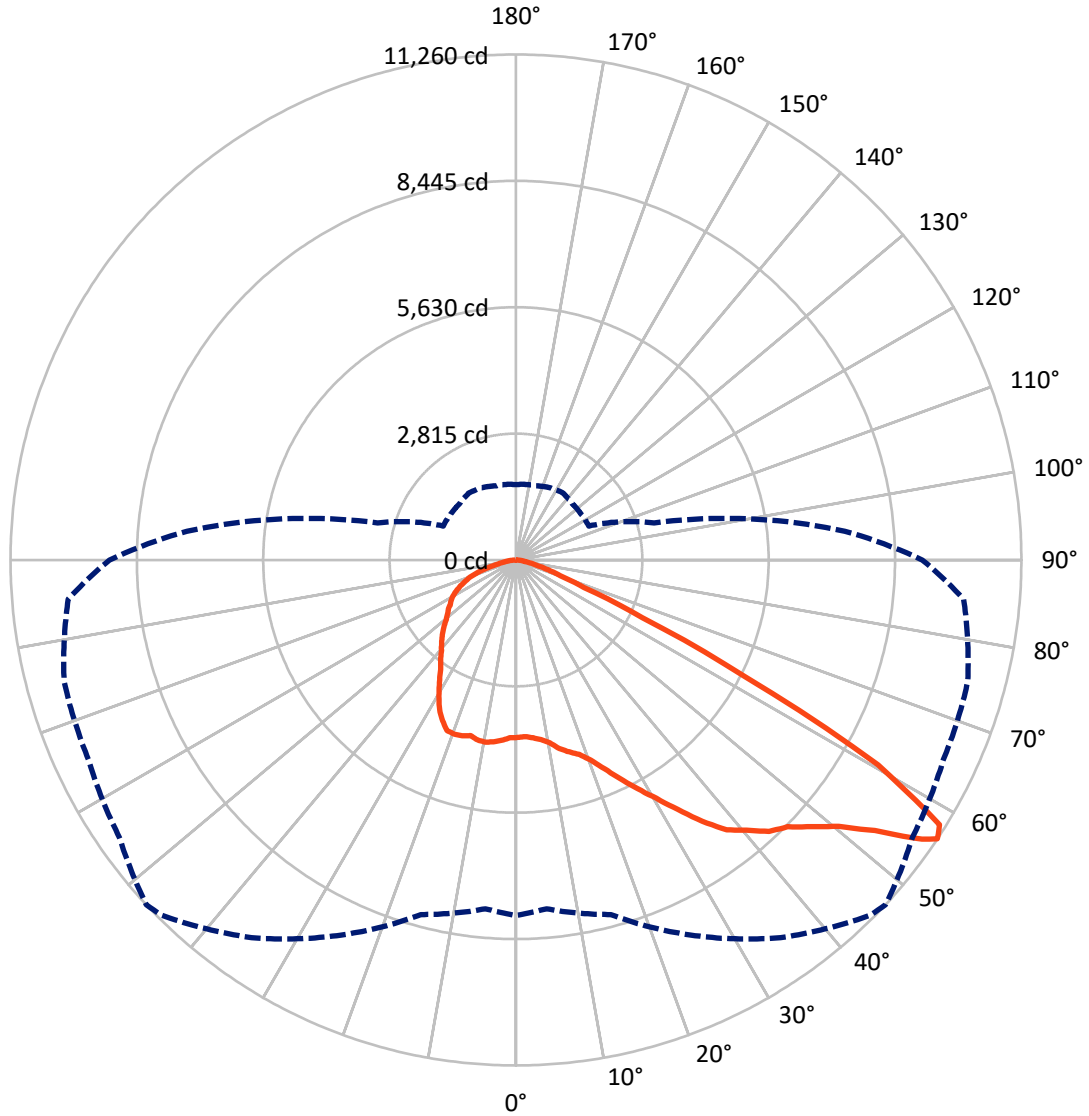
✕ Max cd
 - - - 1/2 Max cd



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	6239.2	0.0	6239.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	13449.8	0.0	13449.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	19689.0	0.0	19689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	2.0
10°-20°	1215.6	6.2
20°-30°	2148.9	10.9
30°-40°	3227.6	16.4
40°-50°	4429.5	22.5
50°-60°	5277.2	26.8
60°-70°	2258.3	11.5
70°-80°	639.1	3.2
80°-90°	107.6	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°	19689.0	100.0
0°-180°	19689.0	100.0

Coefficient of Utilization



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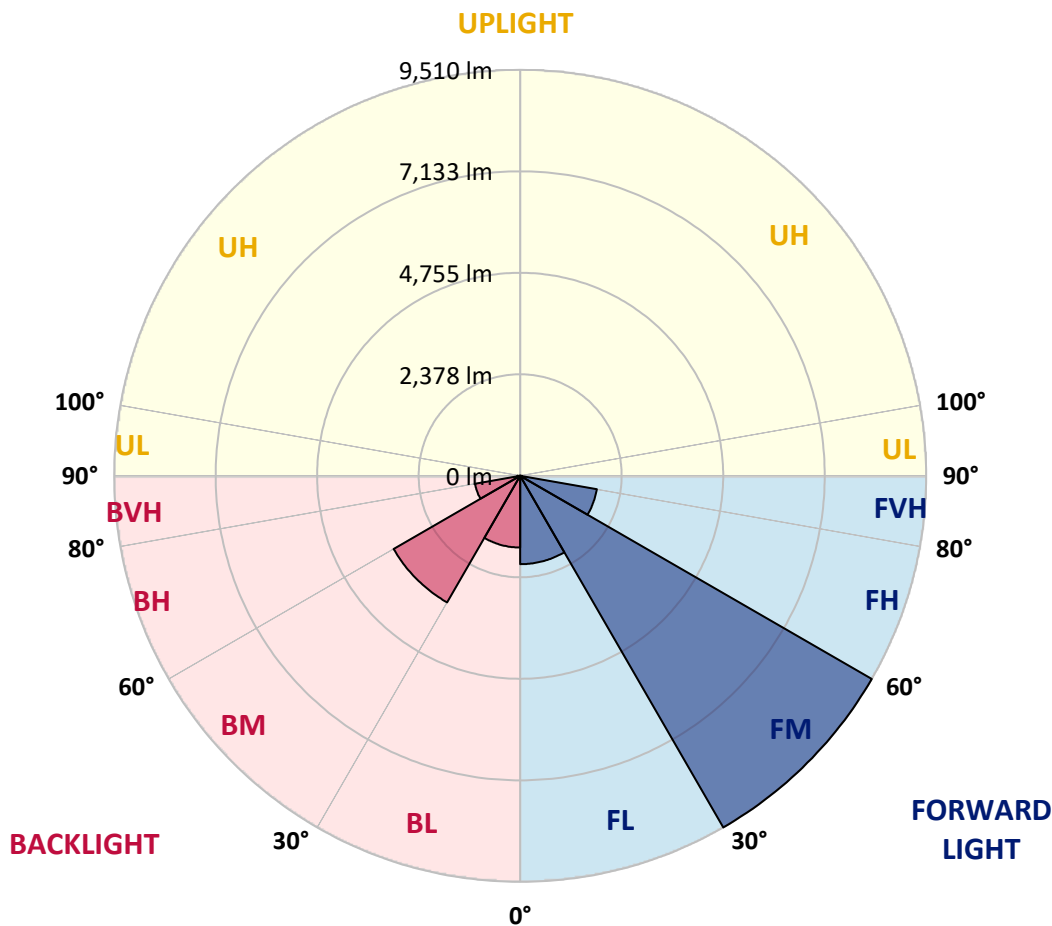
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.0	10.5			
FM (30°-60°)	9510.2	48.3			
FH (60°-80°)	1823.9	9.3			G2/5000
FVH (80°-90°)	45.6	0.2			G1/100
BL (0°-30°)	1679.9	8.5	B3/2500		
BM (30°-60°)	3424.0	17.4	B3/5000		
BH (60°-80°)	1073.5	5.5	B3/2500		G3/2500
BVH (80°-90°)	61.9	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°	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9
2.5°	3939.9	3932.3	3927.3	3967.5	3952.4	3954.9	3939.9	3954.9	3965.0	3942.4	3975.0
5°	3932.3	3954.9	3934.8	3947.4	3980.0	3970.0	3980.0	4010.2	4002.6	3995.1	3985.1
7.5°	4002.6	4005.1	4020.2	4025.2	4035.3	4025.2	4040.3	4067.9	4060.4	4017.7	4022.7
10°	4103.1	4108.1	4110.6	4138.2	4155.8	4158.3	4140.7	4115.6	4113.1	4170.9	4130.7
12.5°	4218.6	4206.0	4236.2	4246.2	4266.3	4288.9	4311.5	4258.8	4291.4	4293.9	4246.2
15°	4386.8	4399.4	4364.2	4364.2	4371.8	4374.3	4437.0	4411.9	4406.9	4379.3	4399.4
17.5°	4637.9	4552.6	4550.0	4514.9	4509.9	4530.0	4552.6	4572.6	4640.4	4585.2	4477.2
20°	4821.2	4841.3	4768.5	4725.8	4733.4	4778.6	4756.0	4846.3	4894.1	4803.7	4698.2
22.5°	5145.2	5077.4	5094.9	4999.5	5007.1	5054.8	5052.3	5145.2	5172.8	5029.7	4876.5
25°	5363.6	5346.0	5361.1	5285.8	5295.8	5333.5	5393.8	5546.9	5501.7	5343.5	4989.5
27.5°	5682.5	5647.4	5634.8	5607.2	5597.2	5697.6	5767.9	5931.1	5898.5	5667.5	5190.4
30°	6009.0	5986.4	5998.9	5885.9	5926.1	6139.5	6159.6	6383.1	6368.1	5961.3	5413.8
32.5°	6235.0	6247.5	6270.1	6207.3	6385.6	6556.4	6624.2	6877.8	6890.4	6466.0	5845.8
35°	6599.1	6556.4	6568.9	6641.8	6724.6	7036.0	7146.5	7314.7	7420.2	6995.8	6260.1
37.5°	6827.6	6872.8	6820.0	6935.6	7151.5	7525.7	7626.1	7799.4	7909.8	7518.1	6825.1
40°	7184.1	7111.3	7149.0	7231.9	7452.8	7940.0	7912.4	8090.6	8125.8	7962.6	7352.4
42.5°	7568.3	7533.2	7480.5	7668.8	7854.6	8208.7	8263.9	8181.0	8359.3	8397.0	8105.7
45°	8027.9	8070.6	8078.1	8083.1	8246.3	8555.2	8479.9	8407.0	8612.9	8886.6	8572.8
47.5°	8454.7	8319.1	8417.1	8552.7	8783.7	8786.2	8874.1	8700.8	8919.3	9162.9	8994.6
50°	8597.9	8532.6	8663.2	8919.3	9275.9	9313.5	9323.6	9077.5	9190.5	9383.8	9140.3
52.5°	8542.6	8520.0	8854.0	9250.8	9773.1	9963.9	10014.1	9710.3	9773.1	9685.2	9461.7
55°	8279.0	8346.8	8683.3	9491.8	10292.8	10882.9	10978.4	10594.2	10194.9	10262.7	10016.6
56°	7917.4	7799.4	8176.0	9218.1	10270.2	11181.8	11259.6	10780.0	10508.8	10420.9	10011.6
57.5°	6717.1	6563.9	7058.6	8294.0	9700.2	11068.8	11126.5	10857.8	10456.1	10277.8	9280.9
60°	3932.3	4007.7	4635.4	5720.2	7483.0	9075.0	9268.3	9464.2	9195.5	8397.0	6907.9
62.5°	1898.4	1850.7	2300.1	3279.4	4560.1	5793.0	5735.3	6285.2	6586.5	5966.3	4361.7
65°	994.4	989.4	1255.5	1790.4	2506.0	3043.4	3096.1	3392.4	3806.8	3073.5	2214.8
67.5°	730.7	750.8	883.9	1258.0	1612.1	1644.7	1637.2	1785.4	1825.5	1544.3	1361.0
70°	572.5	582.6	680.5	956.7	1200.3	1074.7	1052.1	1069.7	1187.7	1238.0	1177.7
72.5°	414.3	424.4	507.2	645.3	750.8	733.2	748.3	846.2	991.9	1044.6	981.8
75°	276.2	283.7	328.9	394.2	444.5	479.6	507.2	620.2	755.8	786.0	755.8
77.5°	190.8	198.4	228.5	278.7	283.7	306.3	316.4	369.1	452.0	489.7	469.6
80°	108.0	108.0	123.0	143.1	175.8	205.9	210.9	253.6	291.3	316.4	321.4
82.5°	50.2	52.7	65.3	87.9	115.5	143.1	148.2	175.8	203.4	228.5	236.0
85°	25.1	27.6	37.7	52.7	70.3	85.4	82.9	85.4	90.4	85.4	87.9
87.5°	7.5	7.5	10.0	12.6	10.0	12.6	12.6	15.1	17.6	20.1	22.6
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°	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9	3954.9
2.5°	3977.5	3985.1	3934.8	3982.5	3965.0	3962.5	3997.6	3992.6	4005.1	4000.1	3970.0
5°	3980.0	3962.5	4015.2	3967.5	3990.1	4037.8	4005.1	4080.5	4042.8	4067.9	4012.7
7.5°	4057.9	4062.9	4052.9	4072.9	4062.9	4085.5	4067.9	4085.5	4055.4	4057.9	4108.1
10°	4125.7	4110.6	4128.2	4103.1	4120.7	4113.1	4072.9	4060.4	4070.4	4057.9	4090.5
12.5°	4251.2	4223.6	4211.1	4180.9	4160.8	4085.5	4022.7	3987.6	4035.3	4042.8	4027.7
15°	4379.3	4381.8	4324.0	4256.2	4130.7	4017.7	4032.8	4045.3	4045.3	4065.4	4027.7
17.5°	4459.6	4459.6	4406.9	4271.3	4143.3	4078.0	4062.9	4022.7	3987.6	3982.5	3980.0
20°	4600.3	4557.6	4437.0	4268.8	4138.2	4108.1	3995.1	3899.7	3826.9	3801.7	3799.2
22.5°	4761.0	4653.0	4484.8	4273.8	4130.7	4088.0	3877.1	3733.9	3603.4	3548.1	3555.7
25°	4909.1	4735.9	4512.4	4251.2	4103.1	3897.2	3661.1	3462.8	3327.2	3282.0	3259.4
27.5°	5012.1	4823.7	4512.4	4271.3	4000.1	3683.7	3442.7	3189.0	3071.0	3040.9	3045.9
30°	5150.2	4934.2	4590.2	4228.6	3794.2	3407.5	3118.7	2953.0	2882.7	2857.6	2875.2
32.5°	5474.1	5223.0	4698.2	4125.7	3550.6	3131.3	2897.8	2804.9	2701.9	2651.7	2634.1
35°	5825.7	5496.7	4803.7	3952.4	3276.9	2880.2	2734.5	2649.2	2526.1	2470.9	2480.9
37.5°	6322.9	5848.3	4811.2	3666.1	2980.6	2739.6	2606.5	2473.4	2373.0	2287.6	2262.5
40°	6993.3	6327.9	4793.6	3364.8	2742.1	2573.8	2475.9	2310.2	2197.2	2136.9	2149.5
42.5°	7583.4	6890.4	4720.8	3023.3	2526.1	2460.8	2350.4	2187.1	2076.6	2013.9	2008.8
45°	8080.6	7304.7	4582.7	2732.0	2345.3	2335.3	2207.2	2081.7	1993.8	1936.0	1961.1
47.5°	8540.1	7638.6	4374.3	2440.8	2179.6	2199.7	2076.6	1998.8	1943.6	1890.8	1888.3
50°	8705.9	7633.6	4191.0	2199.7	2046.5	2036.5	2031.4	1948.6	1890.8	1845.6	1865.7
52.5°	8982.1	7719.0	3992.6	2034.0	1926.0	1928.5	1946.1	1885.8	1820.5	1792.9	1818.0
55°	9378.8	7731.6	3555.7	1840.6	1825.5	1843.1	1843.1	1802.9	1747.7	1725.1	1712.5
56°	9054.9	7357.4	3189.0	1790.4	1775.3	1775.3	1823.0	1777.8	1710.0	1692.5	1677.4
57.5°	8351.8	6445.9	2669.3	1730.1	1707.5	1742.7	1767.8	1720.1	1657.3	1632.2	1647.3
60°	5760.4	4361.7	2006.3	1599.5	1599.5	1657.3	1677.4	1607.1	1579.5	1576.9	1556.9
62.5°	3362.3	2541.2	1569.4	1481.5	1486.5	1534.3	1549.3	1509.1	1474.0	1516.7	1536.8
65°	1782.9	1516.7	1345.9	1356.0	1358.5	1396.2	1461.4	1458.9	1456.4	1469.0	1471.5
67.5°	1290.7	1260.6	1222.9	1212.8	1217.9	1245.5	1310.8	1361.0	1358.5	1328.4	1305.8
70°	1150.1	1107.4	1084.8	1087.3	1067.2	1099.8	1152.6	1185.2	1127.5	1092.3	1077.2
72.5°	956.7	944.2	929.1	931.6	891.4	883.9	823.6	823.6	808.6	798.5	816.1
75°	730.7	725.7	733.2	720.7	678.0	632.8	597.6	565.0	514.8	494.7	484.6
77.5°	462.0	477.1	494.7	467.1	449.5	416.8	381.7	349.0	308.9	286.3	286.3
80°	313.9	326.4	339.0	334.0	313.9	283.7	256.1	221.0	193.4	175.8	173.3
82.5°	238.6	248.6	266.2	246.1	226.0	200.9	178.3	153.2	128.1	108.0	108.0
85°	85.4	97.9	108.0	118.0	125.6	128.1	110.5	90.4	72.8	57.8	55.2
87.5°	22.6	25.1	27.6	25.1	25.1	25.1	27.6	25.1	22.6	17.6	17.6
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)