

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: P528206

Luminaire Tested: **GALN-SA3B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13412 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

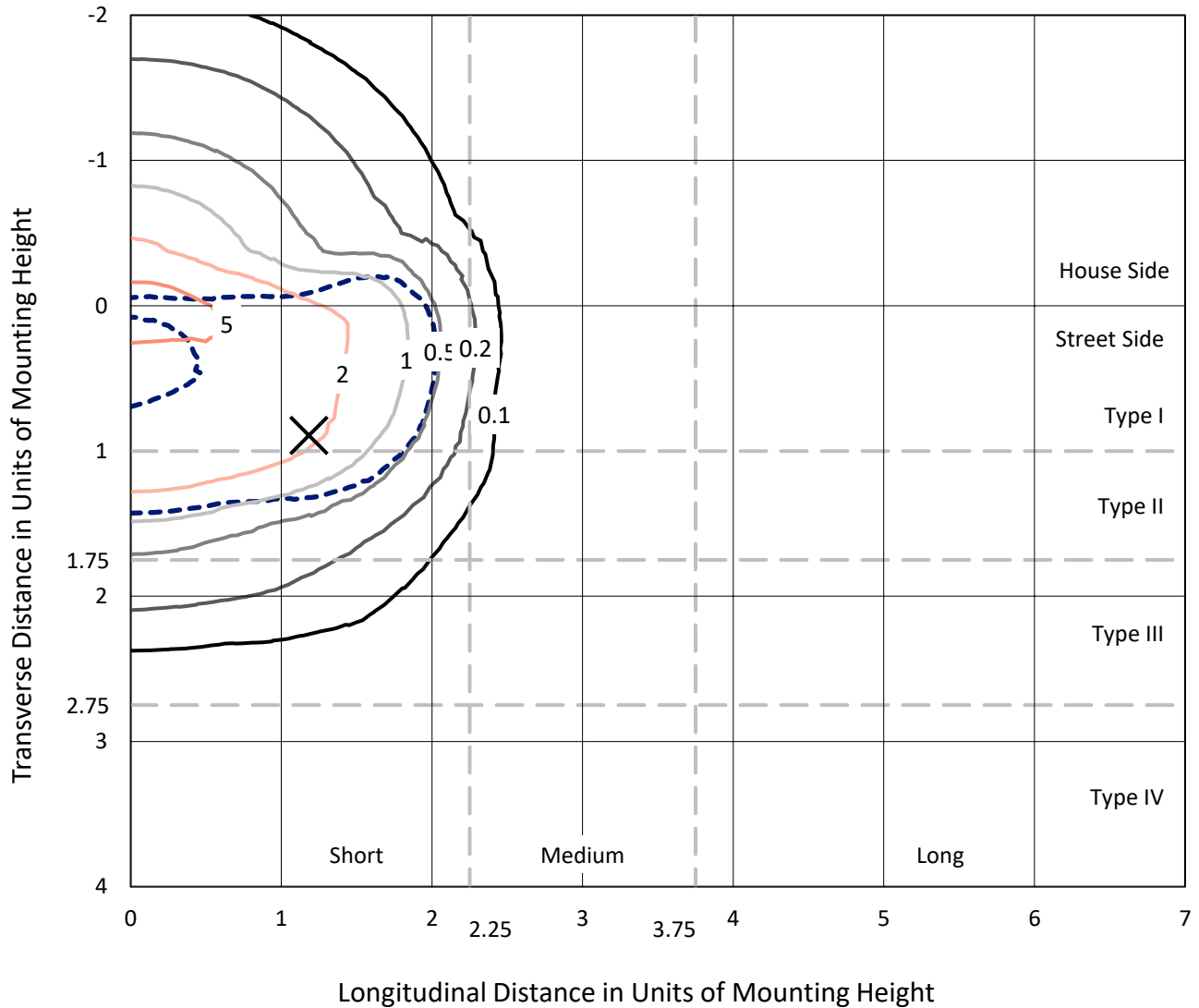
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

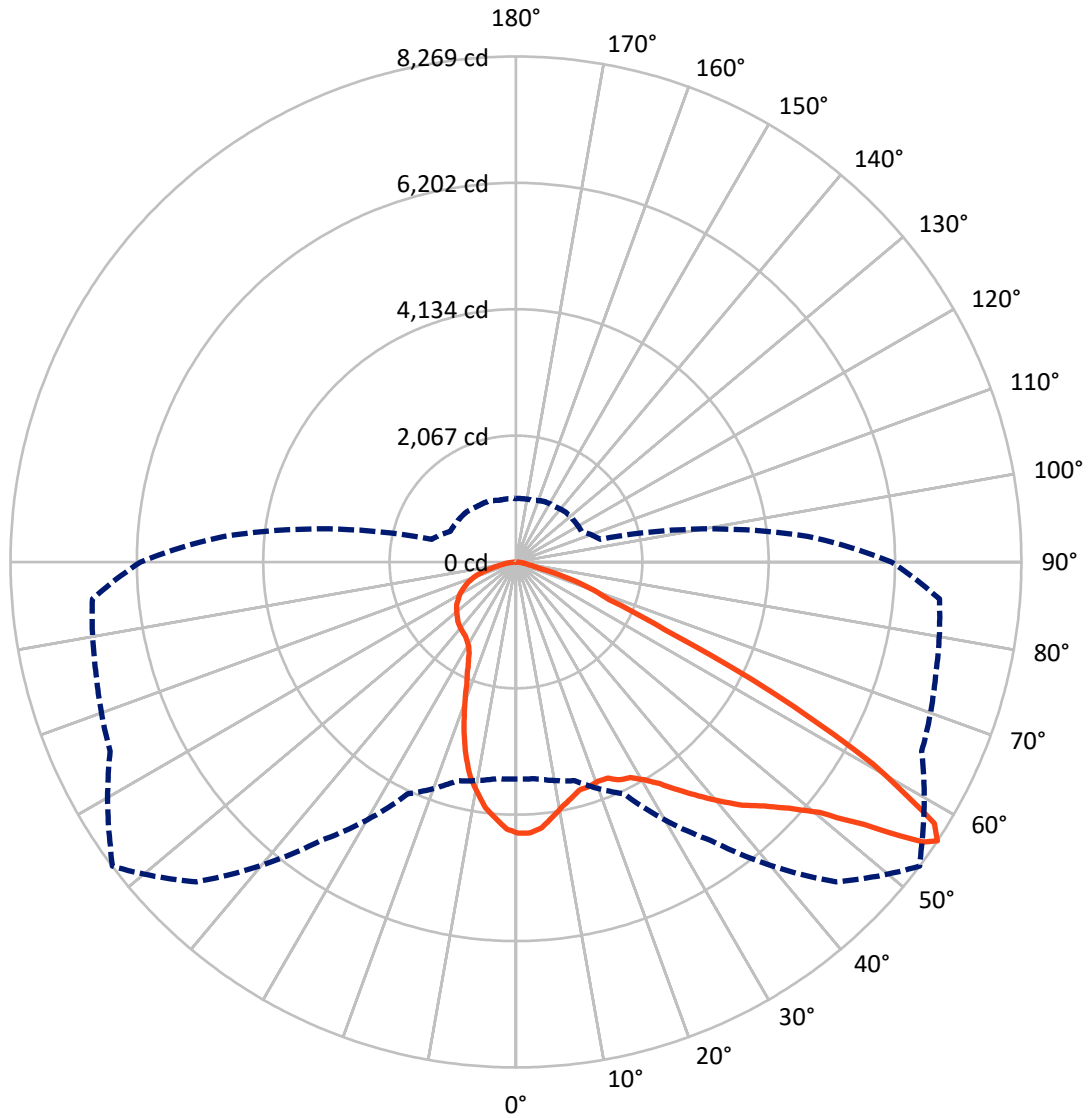
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3913.9	0.0	3913.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	9498.1	0.0	9498.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	13412.0	0.0	13412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.8	2.9
10°-20°	981.1	7.3
20°-30°	1446.7	10.8
30°-40°	2067.1	15.4
40°-50°	2845.0	21.2
50°-60°	3362.1	25.1
60°-70°	1791.8	13.4
70°-80°	454.6	3.4
80°-90°	70.9	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°	13412.0	100.0
0°-180°	13412.0	100.0

Coefficient of Utilization



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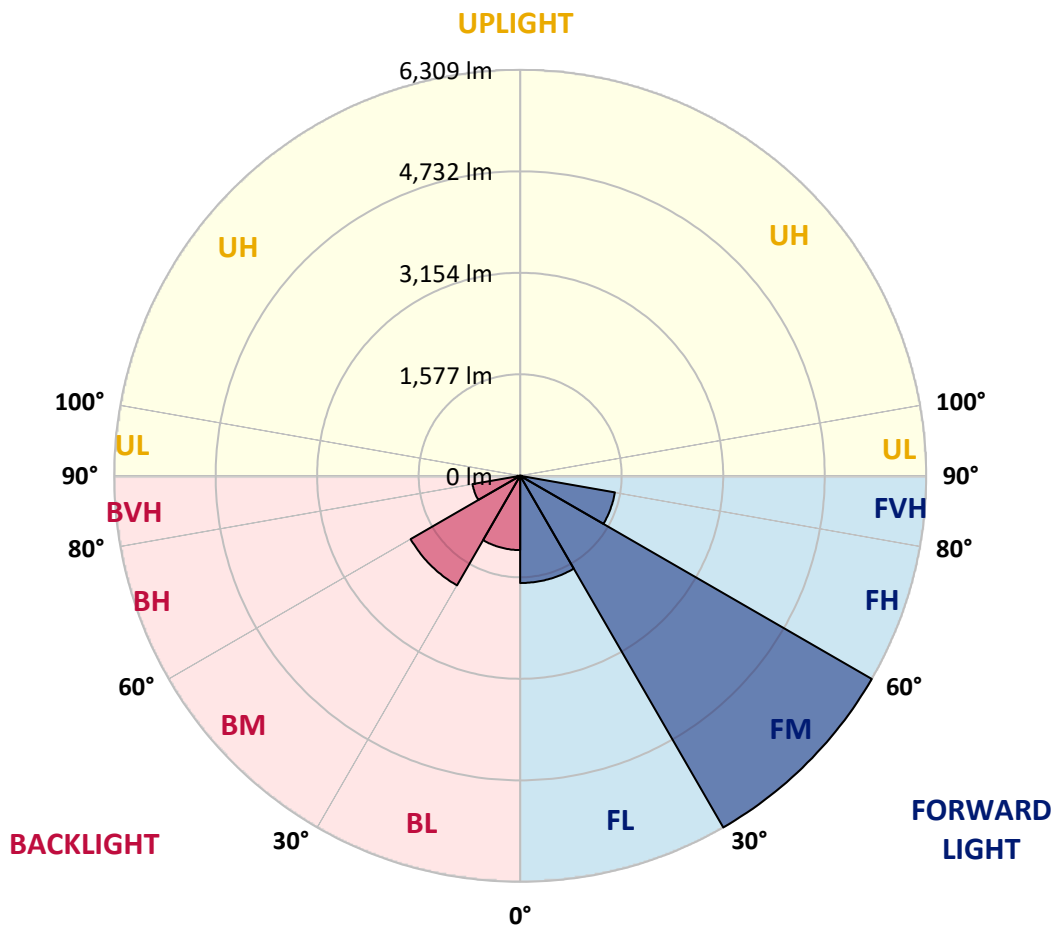
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.2	12.4			
FM (30°-60°)	6308.7	47.0			
FH (60°-80°)	1494.6	11.1			G1/1800
FVH (80°-90°)	28.5	0.2			G1/100
BL (0°-30°)	1154.4	8.6	B3/2500		
BM (30°-60°)	1965.4	14.7	B2/2500		
BH (60°-80°)	751.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	42.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2
2.5°	4382.2	4344.3	4366.7	4358.1	4428.6	4449.3	4438.9	4447.5	4487.1	4468.2	4428.6
5°	4094.8	4148.2	4158.5	4184.3	4225.6	4306.5	4370.1	4387.3	4406.2	4494.0	4485.4
7.5°	3833.3	3869.4	3850.5	3926.2	4015.7	4146.5	4223.9	4237.6	4411.4	4459.6	4495.7
10°	3668.1	3632.0	3718.0	3738.7	3840.2	3989.9	4082.8	4139.6	4297.9	4488.8	4511.2
12.5°	3515.0	3503.0	3554.6	3613.1	3726.6	3881.5	3976.1	3998.5	4242.8	4444.1	4549.1
15°	3401.5	3387.7	3439.3	3482.3	3614.8	3752.5	3872.9	3936.5	4182.6	4418.3	4516.4
17.5°	3312.0	3310.3	3339.5	3417.0	3552.9	3668.1	3862.6	3866.0	4151.6	4457.9	4543.9
20°	3306.8	3305.1	3310.3	3396.3	3520.2	3661.3	3829.9	3860.8	4151.6	4430.3	4545.6
22.5°	3349.9	3322.3	3353.3	3408.3	3497.8	3673.3	3841.9	3910.7	4251.4	4566.3	4623.0
25°	3418.7	3425.6	3442.8	3461.7	3513.3	3700.8	3948.6	4005.4	4368.4	4683.3	4729.7
27.5°	3544.3	3540.8	3547.7	3558.0	3602.8	3726.6	3991.6	4137.8	4612.7	4891.4	4845.0
30°	3728.4	3716.3	3743.8	3780.0	3738.7	3809.2	4134.4	4244.5	4839.8	5101.3	4974.0
32.5°	3895.3	3940.0	3991.6	4007.1	3957.2	3971.0	4323.7	4435.5	5029.1	5359.4	5132.3
35°	4103.4	4139.6	4208.4	4256.6	4248.0	4206.7	4581.7	4729.7	5302.6	5548.7	5299.2
37.5°	4306.5	4349.5	4463.0	4605.8	4526.7	4507.8	4857.0	4979.2	5386.9	5650.2	5421.4
40°	4633.4	4631.6	4827.8	4901.8	4972.3	4939.6	5142.6	5183.9	5431.7	5627.8	5424.8
42.5°	5017.0	4992.9	5192.5	5307.8	5399.0	5402.4	5440.3	5426.5	5452.3	5514.3	5388.7
45°	5381.8	5433.4	5634.7	5841.2	5932.3	5942.7	5691.5	5665.7	5488.5	5481.6	5319.8
47.5°	5827.4	5839.4	6004.6	6276.5	6488.1	6415.8	6016.7	5959.9	5646.7	5700.1	5435.1
50°	5853.2	5942.7	6090.6	6410.7	7061.0	7042.1	6438.2	6331.5	5901.4	6009.8	5756.9
52.5°	5313.0	5292.3	5467.8	5990.8	7018.0	7664.9	7136.7	6882.1	6448.5	6365.9	6278.2
55°	4048.4	4096.6	4251.4	4779.6	6094.1	7673.5	8088.2	7880.0	7033.5	6892.4	6790.9
56°	3551.2	3558.0	3704.3	4186.0	5560.7	7400.0	8268.8	8100.2	7324.2	7109.2	6954.3
57.5°	2943.8	2904.2	2979.9	3243.2	4693.6	6821.9	8071.0	8236.1	7664.9	7343.2	7128.1
60°	2317.5	2308.9	2278.0	2326.1	2966.2	5139.2	6718.6	7090.3	7630.5	7122.9	6827.0
62.5°	1892.6	1849.6	1911.5	1980.3	2061.2	3188.1	4721.1	4939.6	6057.9	5686.3	5128.9
65°	1467.6	1447.0	1524.4	1748.0	1796.2	2025.1	2689.2	2857.8	3577.0	3513.3	3093.5
67.5°	1009.9	1013.4	1080.5	1421.1	1665.5	1644.8	1646.5	1734.3	1866.8	1386.7	1207.8
70°	640.0	638.3	674.4	915.3	1340.3	1354.0	1285.2	1259.4	1194.0	722.6	765.6
72.5°	411.2	399.2	418.1	505.8	693.4	801.8	825.8	841.3	691.6	567.8	615.9
75°	232.3	220.2	213.3	235.7	273.6	316.6	347.5	357.9	400.9	430.1	455.9
77.5°	70.5	63.7	77.4	103.2	135.9	182.4	221.9	228.8	270.1	304.5	330.3
80°	31.0	34.4	48.2	68.8	96.3	129.0	156.6	166.9	194.4	220.2	227.1
82.5°	18.9	20.6	32.7	46.5	67.1	91.2	111.8	115.3	142.8	163.4	168.6
85°	6.9	8.6	17.2	27.5	43.0	58.5	58.5	63.7	58.5	58.5	63.7
87.5°	0.0	0.0	1.7	3.4	3.4	5.2	6.9	6.9	8.6	10.3	12.0
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°	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2	4437.2
2.5°	4449.3	4440.7	4426.9	4377.0	4371.8	4356.4	4270.3	4256.6	4270.3	4229.0	4232.5
5°	4440.7	4466.5	4363.2	4313.3	4220.4	4153.3	4075.9	4036.3	3965.8	3921.1	3971.0
7.5°	4478.5	4468.2	4339.1	4230.8	4091.4	3921.1	3785.1	3707.7	3583.8	3549.4	3575.2
10°	4464.7	4409.7	4258.3	4115.5	3852.2	3702.6	3482.3	3269.0	3152.0	3091.8	3083.2
12.5°	4445.8	4430.3	4177.4	3931.4	3654.4	3339.5	3029.8	2828.5	2637.6	2555.0	2567.0
15°	4468.2	4337.4	4026.0	3714.6	3346.4	2933.5	2599.7	2339.9	2207.4	2154.1	2154.1
17.5°	4457.9	4292.7	3953.8	3472.0	3005.7	2517.1	2150.6	1994.1	1939.0	1939.0	1954.5
20°	4463.0	4321.9	3807.5	3229.4	2603.1	2119.7	1853.0	1796.2	1820.3	1828.9	1837.5
22.5°	4492.3	4225.6	3664.7	2962.7	2229.8	1813.4	1682.7	1684.4	1727.4	1773.9	1765.3
25°	4528.4	4187.7	3490.9	2697.8	1944.2	1663.7	1622.4	1617.3	1650.0	1674.1	1677.5
27.5°	4497.4	4122.4	3313.7	2367.4	1710.2	1564.0	1555.3	1558.8	1569.1	1617.3	1601.8
30°	4598.9	4141.3	3091.8	2090.4	1581.2	1531.3	1520.9	1515.8	1531.3	1545.0	1533.0
32.5°	4724.5	4074.2	2926.6	1823.8	1517.5	1507.2	1486.5	1479.6	1488.2	1474.5	1481.4
35°	4779.6	4062.1	2711.5	1632.8	1467.6	1459.0	1447.0	1445.2	1447.0	1434.9	1424.6
37.5°	4810.6	4118.9	2465.5	1545.0	1436.6	1445.2	1417.7	1414.3	1383.3	1390.2	1395.3
40°	4863.9	4031.2	2265.9	1460.7	1417.7	1400.5	1376.4	1371.3	1350.6	1338.6	1350.6
42.5°	4786.5	4005.4	2069.8	1424.6	1390.2	1371.3	1354.0	1324.8	1317.9	1307.6	1300.7
45°	4724.5	3857.4	1894.3	1379.9	1357.5	1347.2	1314.5	1283.5	1257.7	1268.0	1252.5
47.5°	4771.0	3805.8	1720.5	1342.0	1312.8	1300.7	1268.0	1243.9	1218.1	1206.1	1202.6
50°	4956.8	3902.1	1574.3	1314.5	1274.9	1268.0	1225.0	1197.5	1173.4	1164.8	1168.2
52.5°	5400.7	4165.4	1474.5	1257.7	1238.8	1207.8	1183.7	1149.3	1133.8	1106.3	1123.5
55°	5963.3	4593.8	1448.7	1204.4	1194.0	1166.5	1133.8	1108.0	1078.8	1056.4	1051.2
56°	6144.0	4798.5	1428.0	1183.7	1166.5	1151.0	1108.0	1092.5	1046.1	1040.9	1037.5
57.5°	6290.2	4979.2	1431.5	1144.1	1126.9	1113.2	1087.4	1049.5	1018.5	999.6	1008.2
60°	5959.9	4660.9	1366.1	1083.9	1080.5	1054.7	1018.5	1001.3	963.5	941.1	936.0
62.5°	4430.3	3164.0	1108.0	1006.5	1004.8	977.3	936.0	917.0	910.2	879.2	879.2
65°	2551.5	1983.8	958.3	942.8	929.1	901.6	860.3	844.8	827.6	817.2	808.6
67.5°	1089.1	1028.9	870.6	868.9	853.4	819.0	777.7	753.6	731.2	710.6	720.9
70°	789.7	801.8	786.3	777.7	758.7	715.7	679.6	650.4	615.9	602.2	612.5
72.5°	626.3	652.1	674.4	676.2	653.8	603.9	564.3	524.8	486.9	468.0	476.6
75°	474.9	492.1	514.4	519.6	486.9	452.5	414.6	373.4	344.1	321.7	325.2
77.5°	342.4	338.9	359.6	356.1	340.7	316.6	282.2	244.3	211.6	191.0	192.7
80°	234.0	239.2	251.2	249.5	230.5	215.1	189.3	158.3	134.2	117.0	113.6
82.5°	163.4	172.1	182.4	173.8	158.3	142.8	123.9	101.5	82.6	68.8	65.4
85°	58.5	67.1	77.4	82.6	87.7	84.3	70.5	56.8	41.3	34.4	32.7
87.5°	12.0	13.8	15.5	15.5	15.5	13.8	12.0	12.0	10.3	5.2	5.2
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)