

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: P650790

Luminaire Tested: **GALN-SA3C-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650790
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-SA3C-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 14959.7 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

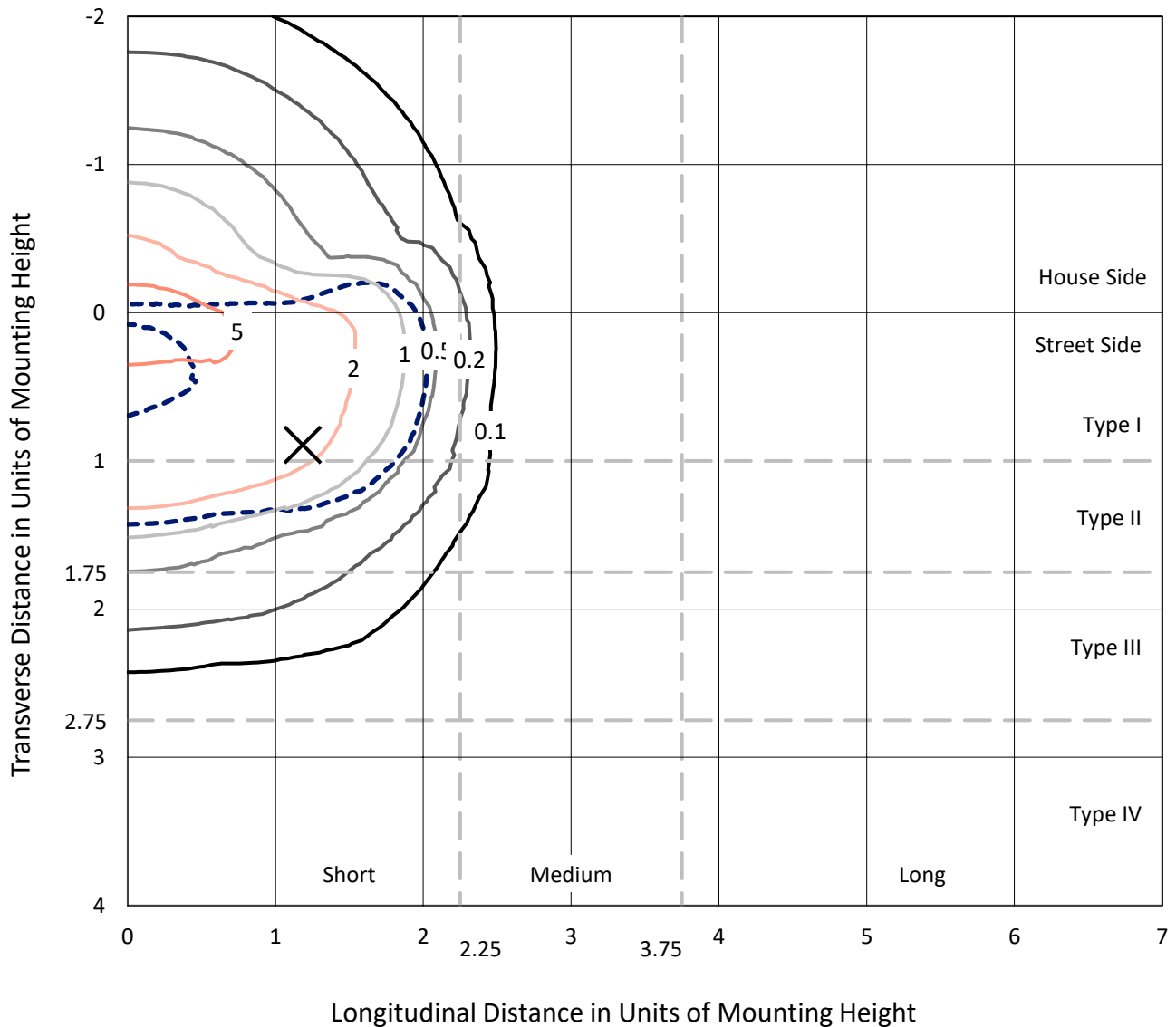
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

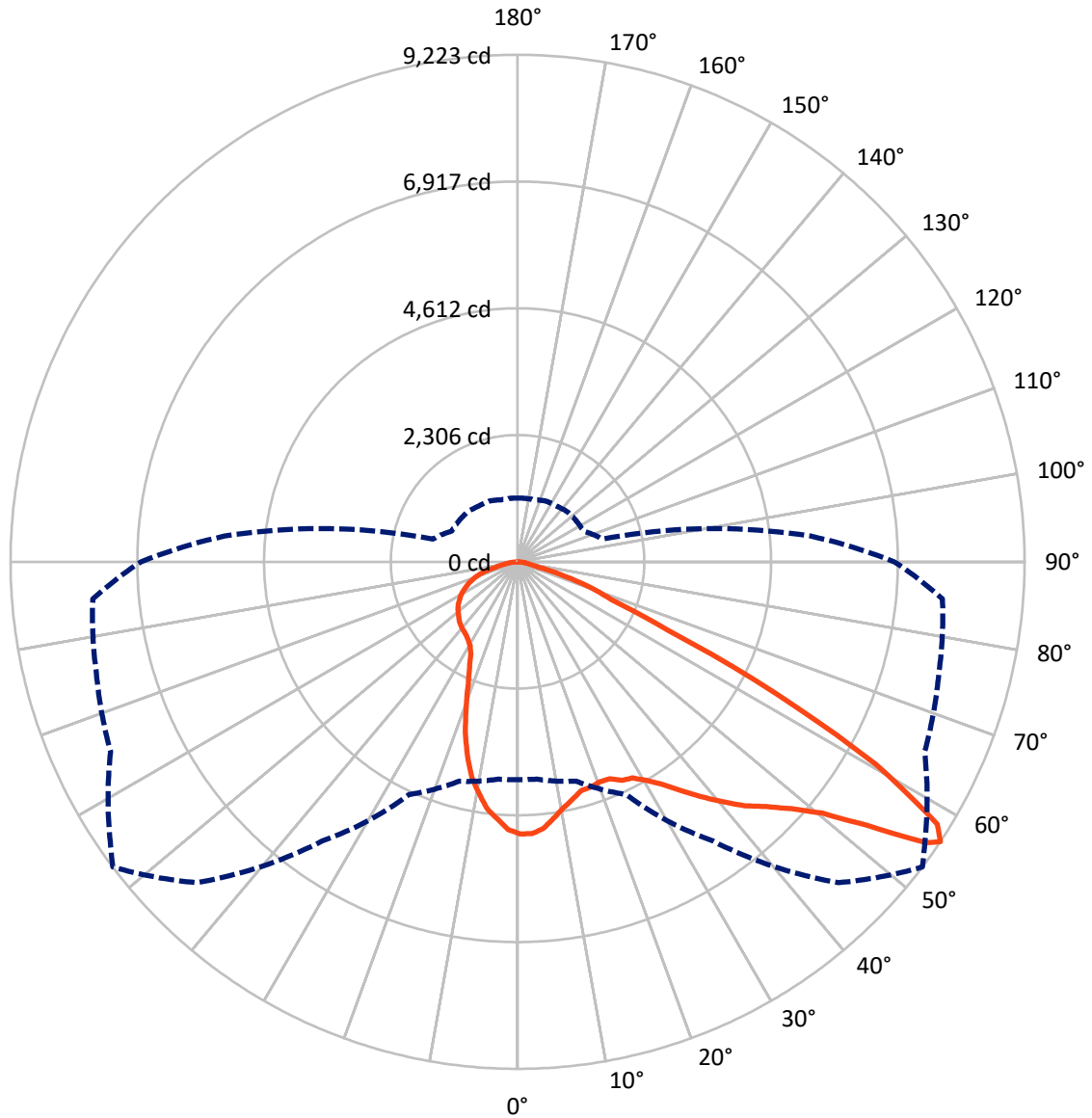
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	4365.6	0.0	4365.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	10594.1	0.0	10594.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	14959.7	0.0	14959.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.1	2.9
10°-20°	1094.3	7.3
20°-30°	1613.7	10.8
30°-40°	2305.6	15.4
40°-50°	3173.3	21.2
50°-60°	3750.0	25.1
60°-70°	1998.5	13.4
70°-80°	507.0	3.4
80°-90°	79.1	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°	14959.7	100.0
0°-180°	14959.7	100.0

Coefficient of Utilization

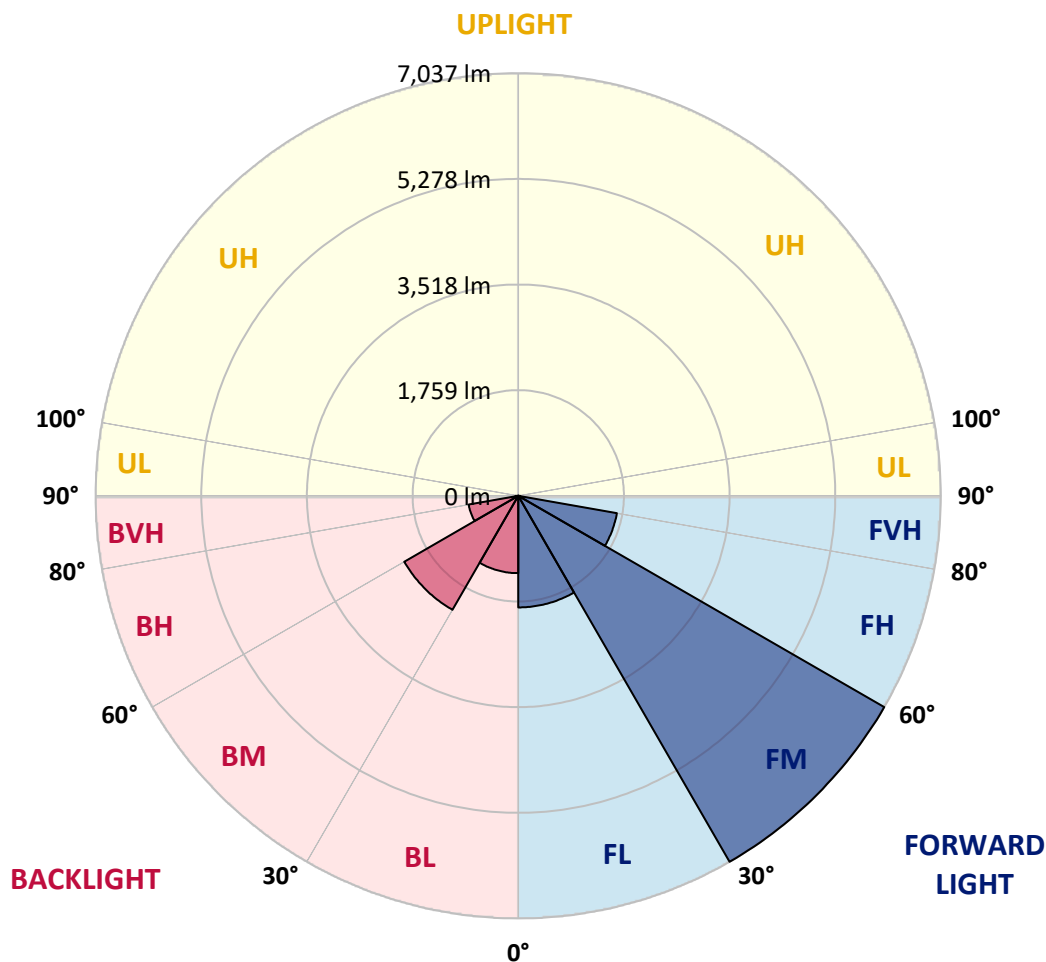


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.5	12.4			
FM (30°-60°)	7036.8	47.0			
FH (60°-80°)	1667.1	11.1			G1/1800
FVH (80°-90°)	31.8	0.2			G1/100
BL (0°-30°)	1287.6	8.6	B3/2500		
BM (30°-60°)	2192.2	14.7	B2/2500		
BH (60°-80°)	838.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	47.3	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°	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3
2.5°	4887.9	4845.6	4870.6	4861.0	4939.7	4962.7	4951.2	4960.8	5004.9	4983.8	4939.7
5°	4567.4	4626.8	4638.4	4667.1	4713.2	4803.4	4874.4	4893.6	4914.7	5012.6	5003.0
7.5°	4275.6	4316.0	4294.8	4379.3	4479.1	4624.9	4711.3	4726.7	4920.4	4974.2	5014.5
10°	4091.5	4051.2	4147.1	4170.1	4283.4	4450.3	4553.9	4617.3	4793.8	5006.8	5031.8
12.5°	3920.7	3907.2	3964.8	4030.1	4156.7	4329.4	4434.9	4459.9	4732.4	4956.9	5074.0
15°	3794.0	3778.6	3836.2	3884.2	4031.9	4185.5	4319.8	4390.8	4665.3	4928.2	5037.5
17.5°	3694.2	3692.2	3724.9	3811.2	3962.9	4091.5	4308.3	4312.1	4630.7	4972.3	5068.2
20°	3688.5	3686.5	3692.2	3788.2	3926.4	4083.7	4271.9	4306.3	4630.7	4941.5	5070.1
22.5°	3736.4	3705.7	3740.3	3801.7	3901.5	4097.2	4285.2	4362.0	4742.0	5093.2	5156.5
25°	3813.2	3820.8	3840.0	3861.1	3918.7	4127.9	4404.2	4467.6	4872.5	5223.7	5275.5
27.5°	3953.3	3949.4	3957.1	3968.6	4018.6	4156.7	4452.3	4615.3	5145.0	5455.9	5404.1
30°	4158.6	4145.2	4175.9	4216.2	4170.1	4248.8	4611.5	4734.3	5398.3	5690.0	5548.0
32.5°	4344.8	4394.6	4452.3	4469.5	4413.8	4429.2	4822.6	4947.4	5609.4	5977.9	5724.6
35°	4577.0	4617.3	4694.0	4747.8	4738.2	4692.1	5110.4	5275.5	5914.6	6189.0	5910.7
37.5°	4803.4	4851.4	4978.0	5137.3	5049.0	5027.9	5417.6	5553.8	6008.6	6302.2	6047.0
40°	5168.0	5166.1	5384.9	5467.4	5546.1	5509.6	5736.0	5782.1	6058.5	6277.2	6050.8
42.5°	5596.0	5569.1	5791.7	5920.3	6022.0	6025.8	6068.1	6052.8	6081.5	6150.6	6010.5
45°	6002.8	6060.4	6285.0	6515.2	6616.9	6628.4	6348.3	6319.4	6121.8	6114.2	5933.8
47.5°	6499.8	6513.3	6697.6	7000.7	7236.8	7156.2	6710.9	6647.6	6298.3	6357.9	6062.3
50°	6528.7	6628.4	6793.5	7150.4	7875.8	7854.7	7181.1	7062.1	6582.4	6703.3	6421.2
52.5°	5926.0	5903.1	6098.8	6682.2	7827.9	8549.4	7960.2	7676.2	7192.7	7100.6	7002.7
55°	4515.6	4569.3	4742.0	5331.2	6797.3	8559.0	9021.5	8789.3	7845.1	7687.7	7574.6
56°	3960.9	3968.6	4131.7	4669.1	6202.4	8253.9	9223.0	9034.9	8169.5	7929.5	7756.9
57.5°	3283.5	3239.4	3323.8	3617.4	5235.2	7609.1	9002.3	9186.6	8549.4	8190.6	7950.6
60°	2585.0	2575.4	2540.8	2594.6	3308.5	5732.3	7493.9	7908.4	8511.0	7944.9	7614.8
62.5°	2111.0	2063.0	2132.1	2208.8	2299.0	3556.0	5265.9	5509.6	6757.0	6342.5	5720.7
65°	1636.9	1614.0	1700.2	1949.8	2003.5	2258.8	2999.5	3187.6	3989.7	3918.7	3450.5
67.5°	1126.5	1130.3	1205.2	1585.1	1857.7	1834.6	1836.6	1934.4	2082.1	1546.8	1347.2
70°	713.9	712.0	752.3	1021.0	1495.0	1510.3	1433.6	1404.7	1331.8	806.0	854.0
72.5°	458.7	445.2	466.3	564.2	773.4	894.3	921.1	938.4	771.4	633.3	687.0
75°	259.1	245.7	238.0	262.9	305.1	353.1	387.6	399.1	447.2	479.8	508.6
77.5°	78.7	71.0	86.4	115.1	151.6	203.4	247.6	255.2	301.3	339.7	368.4
80°	34.6	38.3	53.7	76.8	107.5	143.9	174.7	186.1	216.9	245.7	253.3
82.5°	21.1	23.0	36.5	51.8	74.8	101.7	124.7	128.6	159.3	182.3	188.0
85°	7.7	9.6	19.2	30.7	47.9	65.3	65.3	71.0	65.3	65.3	71.0
87.5°	0.0	0.0	1.9	3.9	3.9	5.7	7.7	7.7	9.6	11.5	13.5
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°	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3	4949.3
2.5°	4962.7	4953.1	4937.8	4882.1	4876.4	4859.0	4763.1	4747.8	4763.1	4717.1	4720.9
5°	4953.1	4981.9	4866.8	4811.1	4707.5	4632.6	4546.3	4502.1	4423.4	4373.5	4429.2
7.5°	4995.3	4983.8	4839.9	4718.9	4563.5	4373.5	4221.9	4135.6	3997.4	3959.0	3987.8
10°	4980.0	4918.6	4749.7	4590.4	4296.8	4129.8	3884.2	3646.2	3515.7	3448.5	3438.9
12.5°	4958.9	4941.5	4659.5	4385.1	4076.1	3724.9	3379.5	3154.9	2941.9	2849.8	2863.3
15°	4983.8	4837.9	4490.6	4143.3	3732.6	3272.0	2899.7	2610.0	2462.2	2402.7	2402.7
17.5°	4972.3	4788.1	4410.0	3872.6	3352.6	2807.6	2398.9	2224.2	2162.8	2162.8	2180.0
20°	4978.0	4820.7	4246.9	3602.1	2903.6	2364.3	2066.8	2003.5	2030.3	2039.9	2049.5
22.5°	5010.7	4713.2	4087.6	3304.6	2487.1	2022.7	1876.9	1878.8	1926.7	1978.5	1968.9
25°	5051.0	4671.0	3893.7	3009.1	2168.5	1855.8	1809.7	1803.9	1840.4	1867.3	1871.1
27.5°	5016.4	4598.1	3696.1	2640.7	1907.6	1744.4	1734.8	1738.7	1750.2	1803.9	1786.6
30°	5129.7	4619.2	3448.5	2331.7	1763.6	1708.0	1696.5	1690.7	1708.0	1723.3	1709.9
32.5°	5269.7	4544.3	3264.3	2034.2	1692.6	1681.1	1658.0	1650.4	1660.0	1644.7	1652.3
35°	5331.2	4530.9	3024.4	1821.2	1636.9	1627.3	1614.0	1612.0	1614.0	1600.5	1589.0
37.5°	5365.7	4594.2	2750.0	1723.3	1602.4	1612.0	1581.3	1577.5	1542.9	1550.6	1556.4
40°	5425.2	4496.3	2527.4	1629.3	1581.3	1562.2	1535.2	1529.5	1506.5	1493.0	1506.5
42.5°	5338.8	4467.6	2308.6	1589.0	1550.6	1529.5	1510.3	1477.6	1470.0	1458.5	1450.8
45°	5269.7	4302.6	2112.9	1539.1	1514.1	1502.6	1466.2	1431.6	1402.9	1414.3	1397.1
47.5°	5321.6	4244.9	1919.1	1496.9	1464.3	1450.8	1414.3	1387.5	1358.7	1345.3	1341.4
50°	5528.8	4352.4	1755.9	1466.2	1422.0	1414.3	1366.4	1335.7	1308.8	1299.2	1303.0
52.5°	6023.9	4646.0	1644.7	1402.9	1381.8	1347.2	1320.3	1281.9	1264.7	1233.9	1253.2
55°	6651.5	5123.9	1615.8	1343.3	1331.8	1301.1	1264.7	1235.8	1203.2	1178.3	1172.5
56°	6853.0	5352.3	1592.9	1320.3	1301.1	1283.9	1235.8	1218.6	1166.8	1161.0	1157.2
57.5°	7016.1	5553.8	1596.6	1276.2	1257.0	1241.7	1212.8	1170.6	1136.1	1115.0	1124.6
60°	6647.6	5198.7	1523.7	1209.0	1205.2	1176.4	1136.1	1116.9	1074.7	1049.7	1043.9
62.5°	4941.5	3529.2	1235.8	1122.7	1120.7	1090.0	1043.9	1022.8	1015.2	980.6	980.6
65°	2845.9	2212.7	1068.9	1051.7	1036.3	1005.6	959.5	942.3	923.1	911.6	902.0
67.5°	1214.7	1147.6	971.0	969.1	951.8	913.5	867.4	840.6	815.6	792.6	804.1
70°	880.9	894.3	877.0	867.4	846.3	798.4	758.0	725.4	687.0	671.7	683.1
72.5°	698.5	727.3	752.3	754.2	729.2	673.6	629.5	585.3	543.1	522.0	531.6
75°	529.7	548.8	573.8	579.5	543.1	504.7	462.5	416.5	383.8	358.9	362.7
77.5°	381.9	378.0	401.1	397.2	380.0	353.1	314.7	272.5	236.1	213.0	215.0
80°	261.0	266.8	280.2	278.3	257.2	239.9	211.1	176.5	149.7	130.5	126.7
82.5°	182.3	191.9	203.4	193.9	176.5	159.3	138.2	113.2	92.1	76.8	72.9
85°	65.3	74.8	86.4	92.1	97.9	94.0	78.7	63.3	46.1	38.3	36.5
87.5°	13.5	15.4	17.2	17.2	17.2	15.4	13.5	13.5	11.5	5.7	5.7
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)