

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: P529111

Luminaire Tested: **GALN-SA4B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15293 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

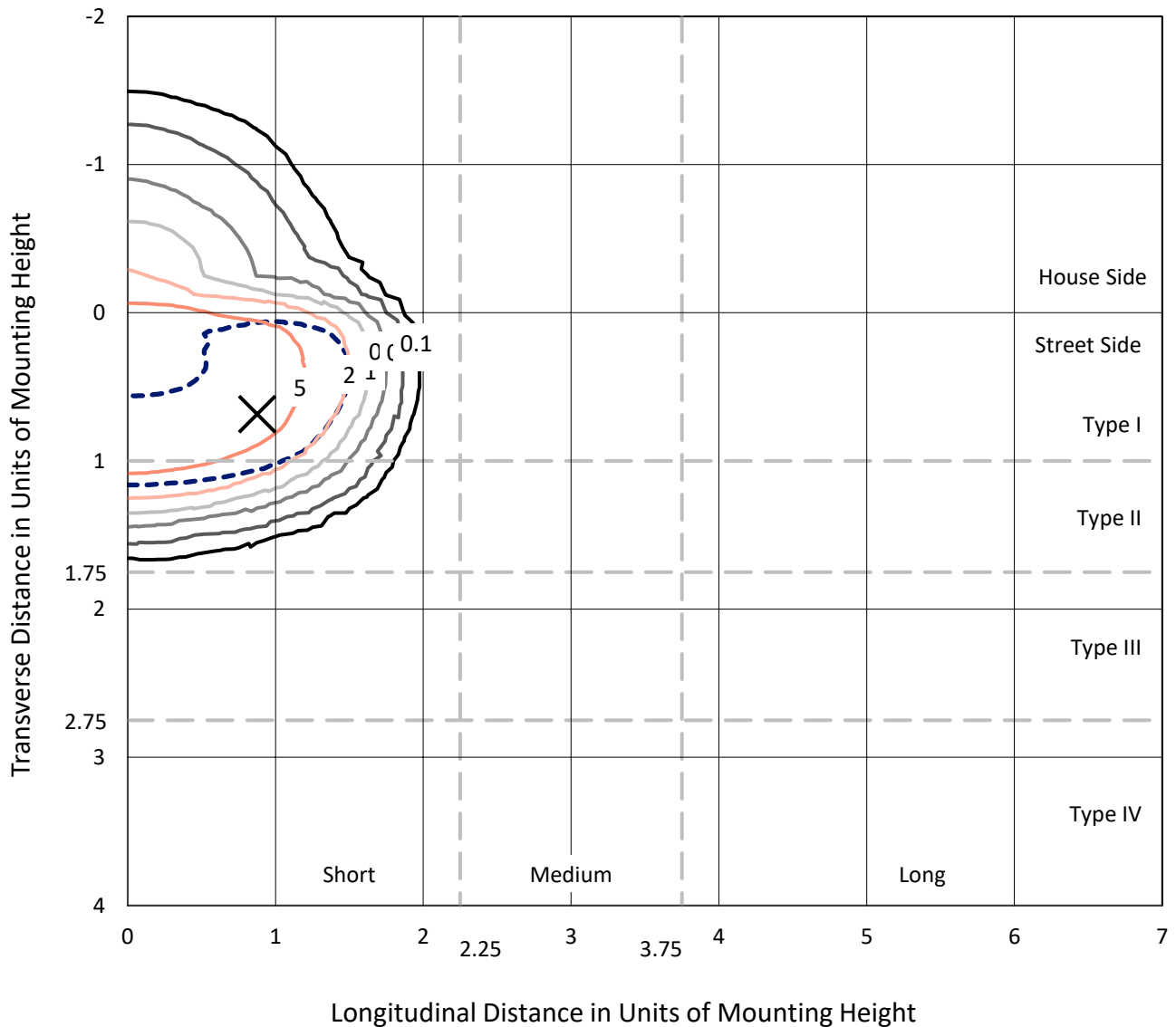
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

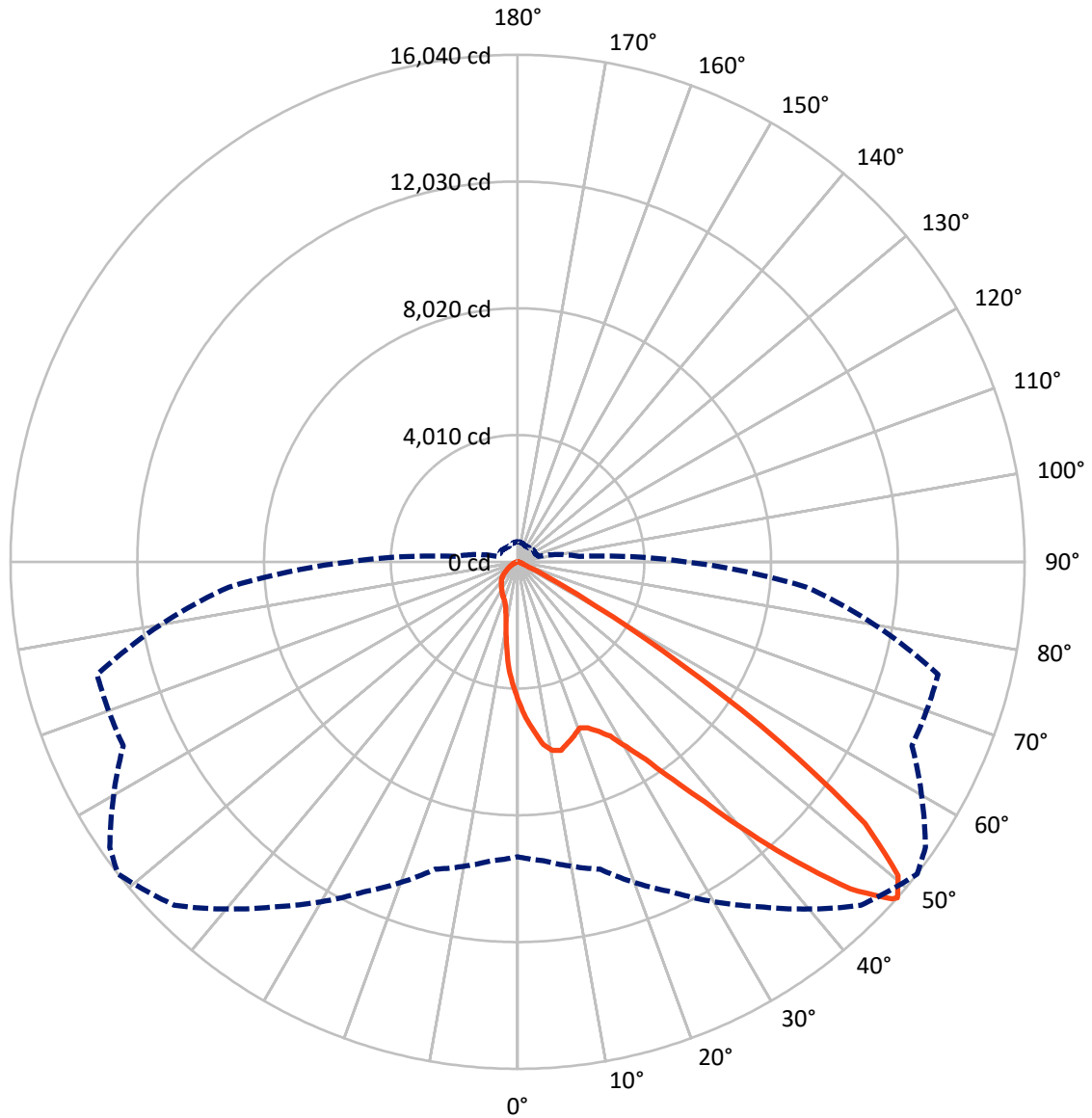
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1862.0	0.0	1862.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13430.9	0.0	13430.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	15293.0	0.0	15293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	2.6
10°-20°	1056.4	6.9
20°-30°	1803.7	11.8
30°-40°	3321.5	21.7
40°-50°	5158.2	33.7
50°-60°	3104.4	20.3
60°-70°	359.1	2.3
70°-80°	69.5	0.5
80°-90°	16.1	0.1
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°	15293.0	100.0
0°-180°	15293.0	100.0

Coefficient of Utilization

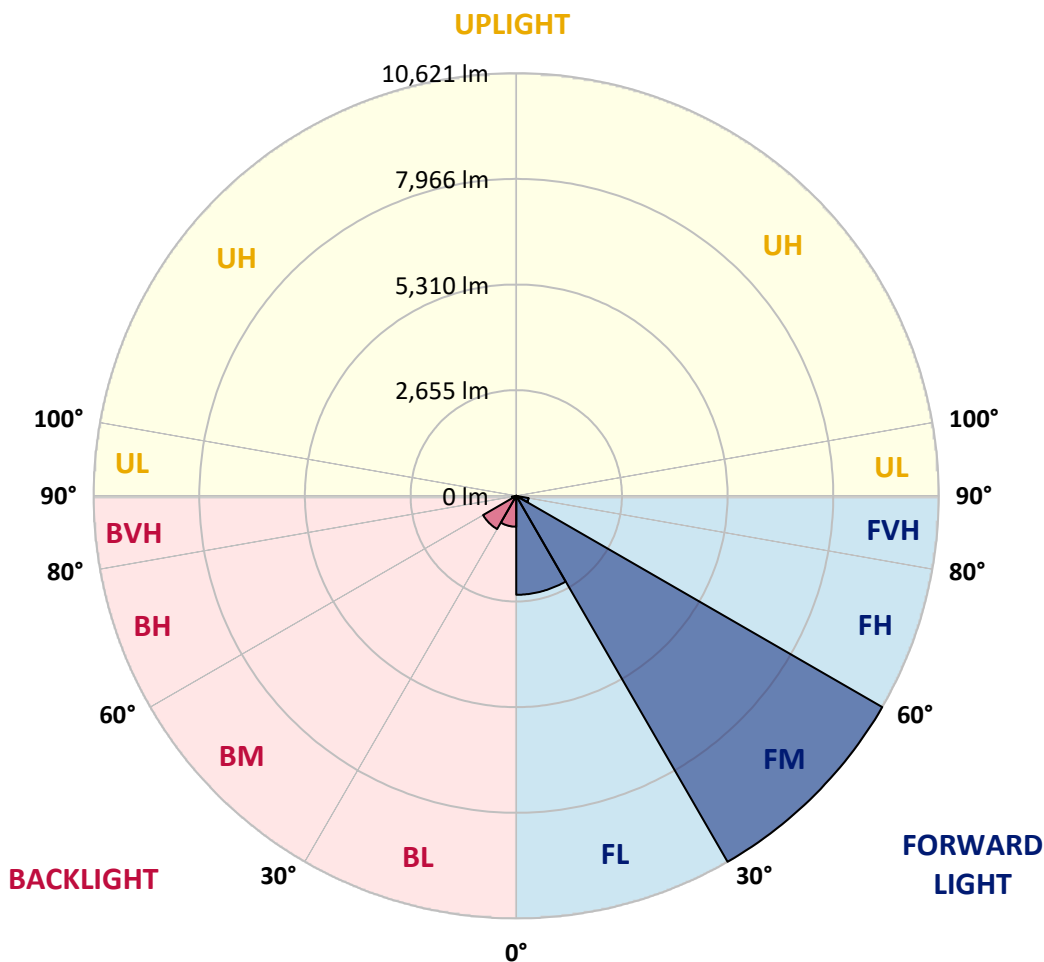


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.4	16.3			
FM (30°-60°)	10620.7	69.4			
FH (60°-80°)	316.2	2.1			G0/660
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	777.8	5.1	B2/1000		
BM (30°-60°)	963.4	6.3	B1/1000		
BH (60°-80°)	112.4	0.7	B1/500		G1/500
BVH (80°-90°)	8.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4
2.5°	5352.7	5230.1	5241.2	5161.0	5114.2	5038.4	4935.8	4915.7	4804.3	4652.7	4498.9
5°	5834.2	5805.3	5843.2	5727.2	5731.7	5606.8	5366.1	5370.5	5114.2	4866.7	4628.2
7.5°	5865.4	5798.6	5836.5	5939.0	5999.2	5976.9	5840.9	5722.8	5479.8	5116.4	4768.6
10°	5252.4	5379.4	5419.6	5589.0	5829.8	6083.9	6068.3	6075.0	5872.1	5397.3	4889.0
12.5°	4884.5	4799.8	4935.8	5038.4	5401.7	5894.4	6119.6	6168.6	6184.2	5669.3	5009.4
15°	4717.3	4717.3	4739.6	4768.6	5031.7	5486.5	5945.7	6088.4	6425.0	6026.0	5198.9
17.5°	4822.1	4817.6	4848.9	4788.7	4886.8	5236.8	5785.2	5947.9	6694.8	6376.0	5348.2
20°	5140.9	5156.5	5136.4	4962.6	4969.2	5232.3	5606.8	5863.2	6877.6	6679.2	5546.7
22.5°	5584.5	5593.5	5479.8	5290.3	5234.5	5363.8	5709.4	5905.6	7024.7	7042.6	5606.8
25°	6097.3	6061.6	6039.3	5771.8	5602.4	5713.9	5941.2	6054.9	7116.1	7354.7	5778.5
27.5°	6808.5	6737.1	6601.1	6362.6	6237.8	6079.5	6242.2	6429.5	7377.0	7791.6	5965.8
30°	7858.5	7796.1	7530.8	7223.1	6895.4	6739.4	6790.6	6893.2	7847.4	8297.7	6213.2
32.5°	9439.1	9307.6	8924.1	8337.8	7891.9	7461.7	7448.3	7557.5	8268.7	8997.7	6507.5
35°	11180.2	11140.1	10576.1	9971.9	9109.2	8444.8	8456.0	8513.9	9075.7	9916.2	6893.2
37.5°	12337.3	12558.0	12199.1	11550.3	10825.8	9876.1	9635.3	9655.4	10183.7	11004.1	7588.7
40°	13231.3	13044.0	13086.3	12934.8	12439.8	11793.3	11260.5	11155.7	11465.6	12208.0	8279.8
42.5°	12841.1	12850.0	13110.9	13469.8	13592.4	13545.6	13001.6	12803.2	12562.4	13193.4	8937.5
45°	11739.8	11969.4	12308.3	13258.0	14091.8	14874.3	14767.3	14437.3	13320.4	13973.6	9316.5
47.5°	9983.1	9974.2	10529.3	11764.3	13616.9	15449.5	15935.5	15703.6	13857.7	13886.7	9238.5
48°	9334.3	9494.8	10067.8	11521.3	13316.0	15364.8	16040.3	15748.2	13766.3	13770.8	9171.6
50°	6899.9	6870.9	7584.3	9367.8	11893.6	14437.3	15598.8	15826.2	13764.1	13184.4	8703.4
52.5°	3645.0	3769.8	4289.3	5890.0	8409.2	11815.6	13759.6	14114.1	13278.1	12225.8	8030.2
55°	1549.4	1400.0	1799.1	2659.6	4730.7	7894.2	10094.5	10883.7	11227.1	10819.1	7024.7
57.5°	552.9	604.2	695.6	1001.0	1988.6	4320.5	6019.3	6632.3	7778.2	7938.8	4786.4
60°	354.5	361.2	390.1	459.2	746.8	1665.3	2855.8	3344.0	3863.5	3988.3	2233.8
62.5°	274.2	276.4	289.8	301.0	354.5	646.5	1072.3	1270.7	1319.8	1134.7	586.3
65°	229.6	231.9	236.3	236.3	251.9	303.2	374.5	412.4	401.3	396.8	332.2
67.5°	176.1	180.6	189.5	189.5	198.4	185.0	207.3	220.7	249.7	303.2	283.1
70°	138.2	140.4	147.1	151.6	151.6	133.8	149.4	162.7	182.8	225.2	222.9
72.5°	107.0	111.5	115.9	115.9	109.2	91.4	107.0	118.2	131.5	156.1	151.6
75°	82.5	82.5	84.7	69.1	53.5	46.8	64.7	78.0	98.1	102.6	84.7
77.5°	22.3	24.5	22.3	20.1	22.3	33.4	42.4	49.0	62.4	62.4	55.7
80°	0.0	2.2	6.7	13.4	22.3	31.2	37.9	42.4	49.0	53.5	51.3
82.5°	0.0	2.2	6.7	13.4	20.1	24.5	33.4	35.7	40.1	46.8	46.8
85°	0.0	2.2	4.5	8.9	13.4	15.6	15.6	13.4	13.4	11.1	8.9
87.5°	0.0	0.0	2.2	4.5	4.5	6.7	6.7	6.7	6.7	6.7	6.7
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°	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4	4416.4
2.5°	4438.7	4369.5	4264.8	4099.8	3941.5	3839.0	3740.9	3631.6	3571.4	3567.0	3533.5
5°	4492.2	4336.1	4086.4	3803.3	3500.1	3239.3	2976.2	2804.5	2650.7	2566.0	2550.4
7.5°	4521.1	4318.3	3914.8	3439.9	2922.7	2496.9	2202.6	1986.4	1901.6	1839.2	1837.0
10°	4581.3	4287.1	3658.4	2958.4	2318.5	1888.3	1685.4	1587.3	1540.5	1522.7	1495.9
12.5°	4625.9	4229.1	3395.3	2463.4	1832.5	1565.0	1475.8	1453.5	1455.8	1464.7	1453.5
15°	4688.3	4177.8	3040.8	2022.0	1538.3	1409.0	1409.0	1413.4	1444.6	1449.1	1446.9
17.5°	4683.9	4077.5	2675.2	1665.3	1359.9	1342.1	1348.8	1391.1	1411.2	1417.9	1402.3
20°	4737.4	3983.9	2298.5	1422.3	1259.6	1286.3	1330.9	1342.1	1366.6	1371.1	1353.2
22.5°	4721.8	3749.8	1948.5	1230.6	1183.8	1235.1	1279.7	1293.0	1286.3	1273.0	1270.7
25°	4692.8	3549.1	1627.4	1103.5	1128.1	1183.8	1226.1	1201.6	1188.2	1190.5	1192.7
27.5°	4641.5	3295.0	1362.1	1014.4	1052.3	1134.7	1132.5	1123.6	1137.0	1125.8	1137.0
30°	4632.6	3040.8	1143.7	934.1	996.5	1056.7	1061.2	1076.8	1092.4	1072.3	1092.4
32.5°	4646.0	2762.2	987.6	885.1	963.1	965.3	1014.4	1030.0	1018.8	974.2	978.7
35°	4748.5	2548.2	873.9	858.3	909.6	911.8	958.6	938.6	889.5	862.8	878.4
37.5°	4964.8	2369.8	820.4	833.8	838.2	867.2	869.5	829.3	833.8	831.6	840.5
40°	5241.2	2233.8	782.5	811.5	807.0	827.1	746.8	769.1	789.2	795.9	800.3
42.5°	5430.7	2135.7	758.0	775.8	766.9	731.2	686.6	708.9	724.5	749.1	753.5
45°	5515.4	2057.7	729.0	713.4	713.4	648.7	630.9	635.4	671.0	697.8	693.3
47.5°	5377.2	1981.9	677.7	630.9	646.5	593.0	572.9	572.9	610.8	644.3	637.6
48°	5323.7	1950.7	680.0	613.1	624.2	584.1	564.0	559.6	601.9	633.1	633.1
50°	5058.4	1834.8	622.0	564.0	541.7	537.3	523.9	528.4	555.1	584.1	584.1
52.5°	4541.2	1585.1	526.1	483.8	443.6	470.4	477.1	468.2	481.5	508.3	506.1
55°	3789.9	1217.2	421.3	401.3	370.1	399.1	412.4	401.3	387.9	408.0	408.0
57.5°	2427.8	655.4	336.6	341.1	309.9	338.9	350.0	323.3	298.7	314.3	312.1
60°	1094.6	392.4	276.4	269.8	249.7	283.1	301.0	269.8	236.3	247.5	258.6
62.5°	410.2	278.7	209.6	205.1	200.6	231.9	240.8	216.2	182.8	189.5	191.7
65°	301.0	245.2	167.2	151.6	160.5	182.8	178.3	153.8	131.5	131.5	136.0
67.5°	256.4	214.0	136.0	118.2	118.2	120.4	111.5	98.1	91.4	95.9	100.3
70°	200.6	169.4	107.0	91.4	82.5	73.6	64.7	62.4	55.7	62.4	60.2
72.5°	129.3	113.7	82.5	69.1	62.4	51.3	42.4	40.1	33.4	31.2	31.2
75°	69.1	69.1	64.7	55.7	49.0	40.1	33.4	26.8	17.8	13.4	13.4
77.5°	49.0	53.5	58.0	53.5	44.6	33.4	26.8	17.8	8.9	4.5	4.5
80°	46.8	53.5	58.0	51.3	44.6	33.4	24.5	13.4	6.7	2.2	2.2
82.5°	42.4	49.0	53.5	46.8	40.1	29.0	22.3	13.4	6.7	2.2	2.2
85°	8.9	11.1	13.4	13.4	15.6	20.1	15.6	11.1	4.5	2.2	2.2
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	4.5	4.5	2.2	2.2	2.2
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)