

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: P533810

Luminaire Tested: **GALN-SA9B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41010 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

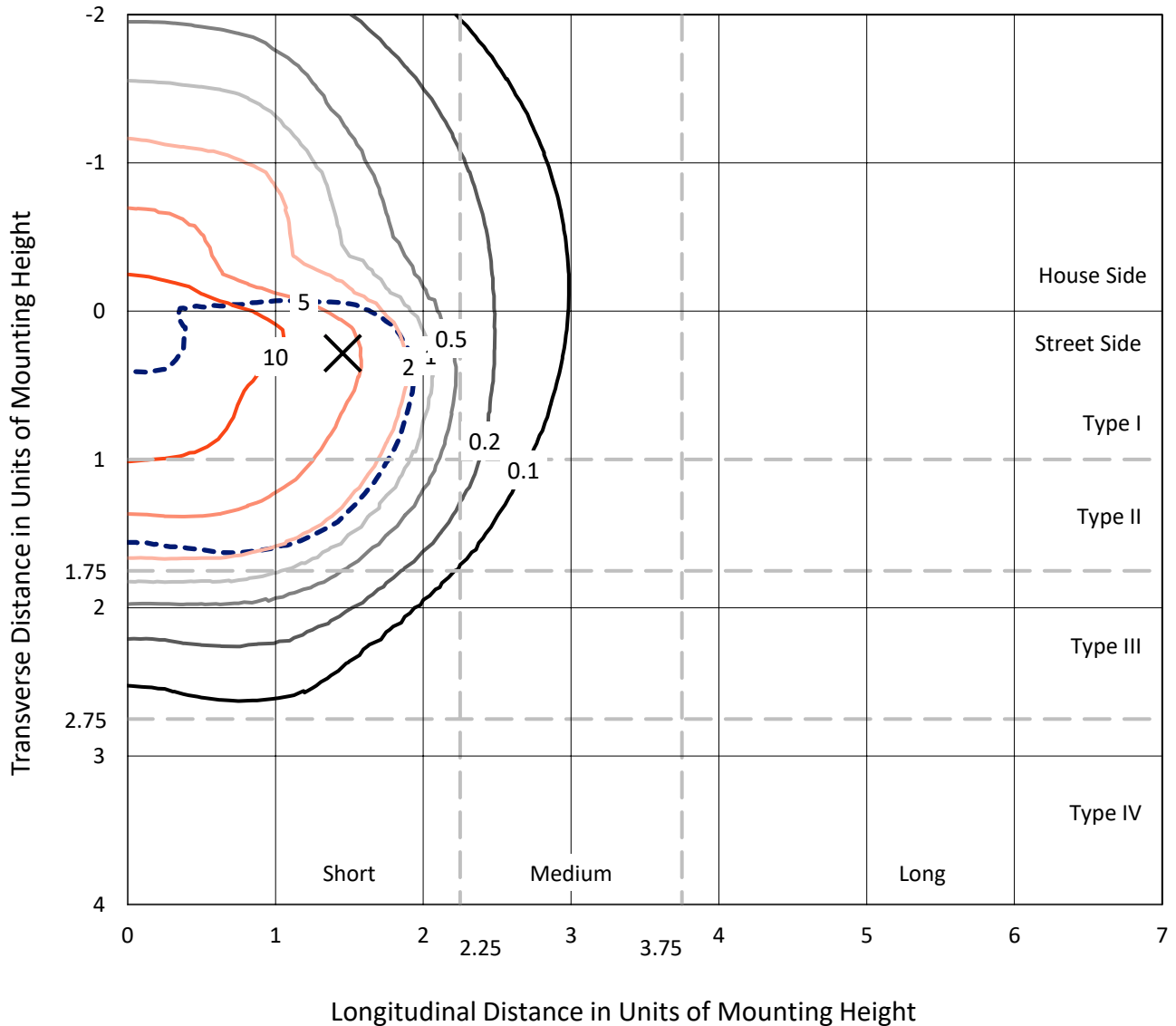
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

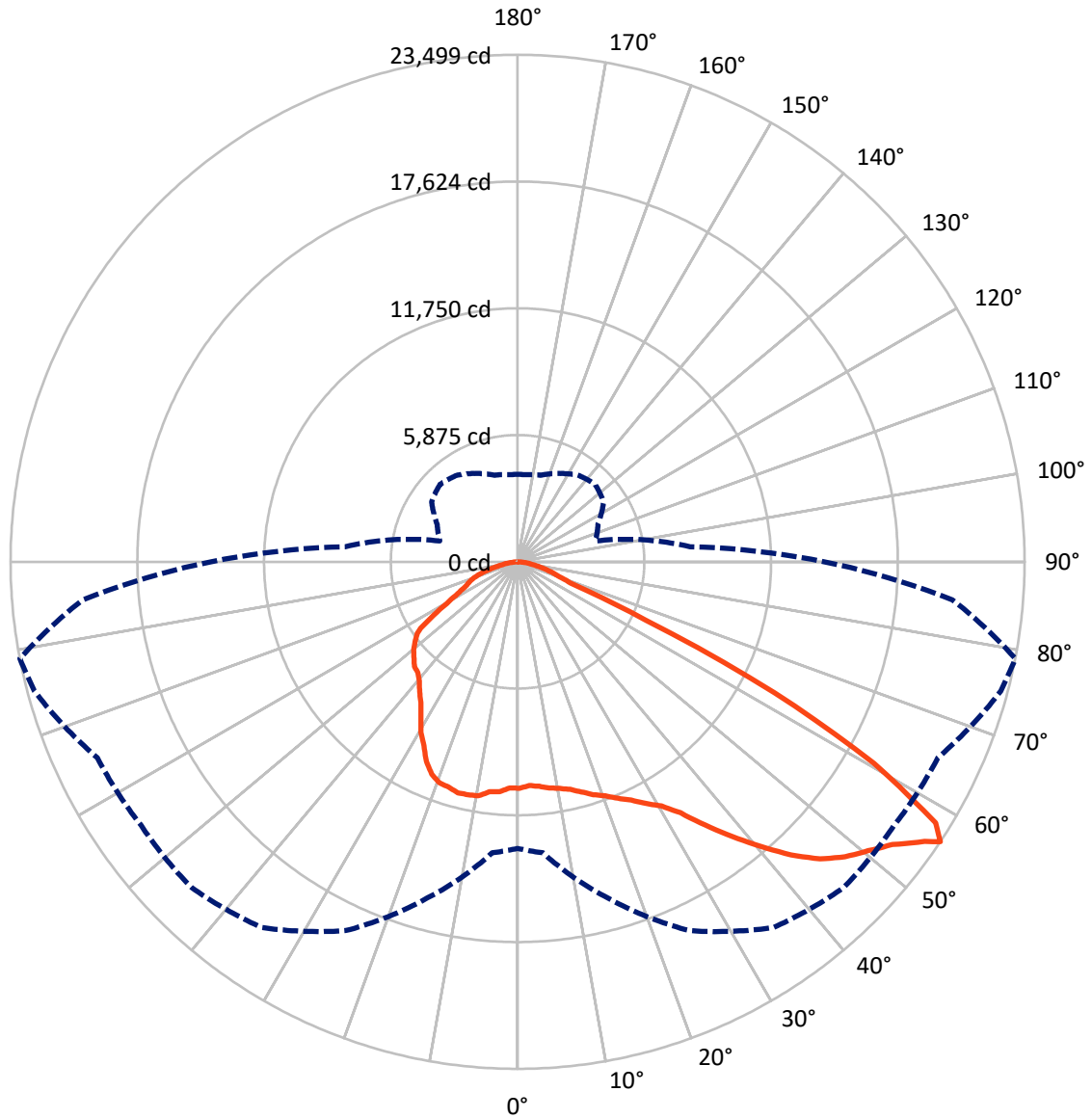
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12111.1	0.0	12111.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	28898.9	0.0	28898.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	41010.0	0.0	41010.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.0	2.3
10°-20°	2610.8	6.4
20°-30°	4466.6	10.9
30°-40°	6845.7	16.7
40°-50°	9251.9	22.6
50°-60°	10626.1	25.9
60°-70°	4843.7	11.8
70°-80°	1194.2	2.9
80°-90°	217.0	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°	41010.0	100.0
0°-180°	41010.0	100.0



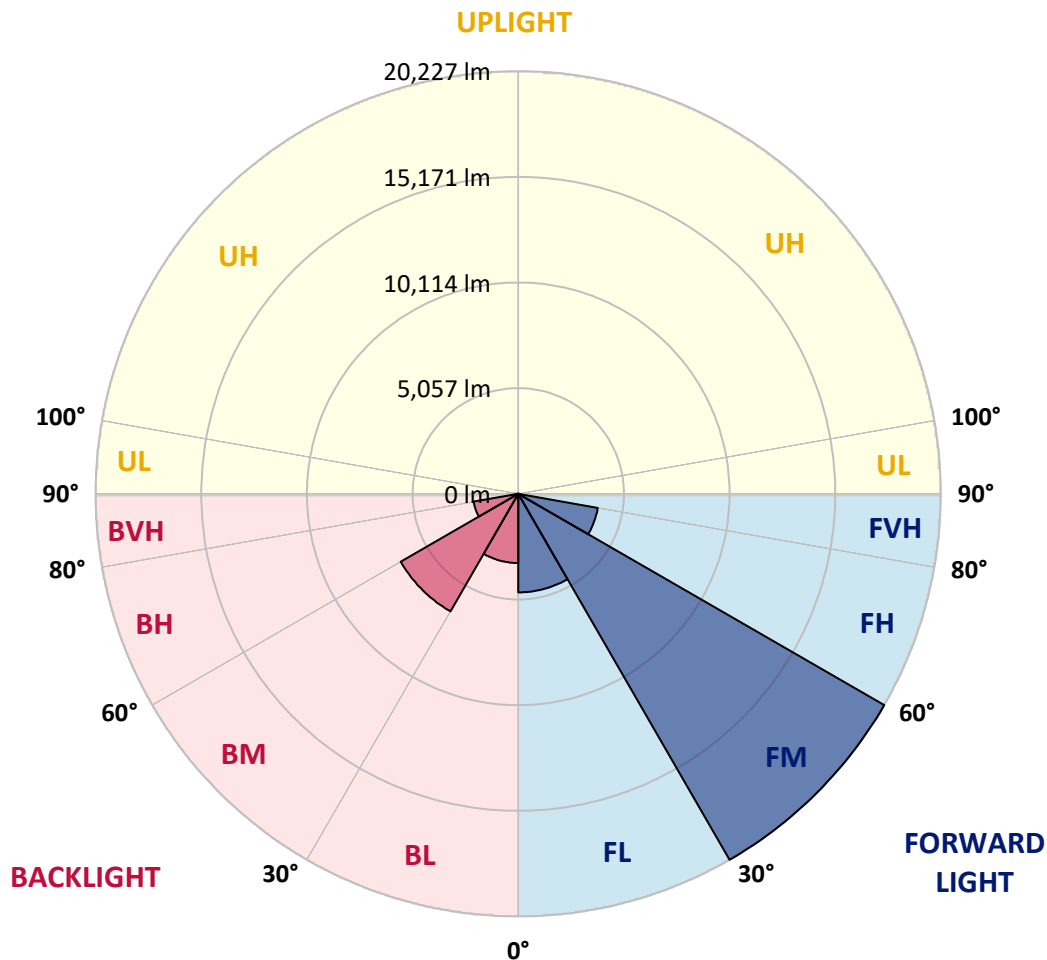
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4718.5	11.5			
FM (30°-60°)	20227.3	49.3			
FH (60°-80°)	3866.3	9.4			G2/5000
FVH (80°-90°)	86.7	0.2			G1/100
BL (0°-30°)	3312.9	8.1	B4/5000		
BM (30°-60°)	6496.3	15.8	B4/8500		
BH (60°-80°)	2171.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	130.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8
2.5°	9982.0	9956.4	10017.7	10063.7	10119.9	10191.4	10227.2	10247.6	10426.4	10380.4	10518.4
5°	9767.4	9701.0	9747.0	9782.8	9879.8	9966.7	10063.7	10217.0	10380.4	10452.0	10620.5
7.5°	9578.4	9542.7	9532.4	9558.0	9690.8	9803.2	9971.8	10196.5	10462.2	10579.7	10676.7
10°	9266.8	9215.7	9292.3	9460.9	9496.7	9731.7	9925.8	10247.6	10477.5	10681.8	10967.9
12.5°	9128.9	9077.8	9093.1	9190.2	9440.5	9665.3	9895.1	10257.8	10743.2	10824.9	11208.0
15°	9348.5	9297.4	9312.8	9287.2	9527.3	9644.8	10007.5	10462.2	10927.1	11065.0	11473.7
17.5°	9849.2	9854.3	9787.9	9731.7	9675.5	9925.8	10176.1	10584.8	10998.6	11346.0	11652.5
20°	10804.5	10635.9	10503.1	10186.3	10099.5	10206.8	10523.5	10916.8	11289.8	11575.8	11923.2
22.5°	11540.1	11555.4	11366.4	10845.3	10656.3	10702.3	10973.0	11294.9	11703.5	11907.9	12306.3
25°	12607.7	12500.5	12296.1	11882.3	11458.3	11494.1	11693.3	11984.5	12096.9	12239.9	12674.2
27.5°	13583.5	13614.1	13210.6	12822.3	12296.1	12194.0	12551.6	12602.6	12413.6	12684.4	12832.5
30°	14574.5	14549.0	14283.3	13828.7	13312.7	13333.2	13491.5	13241.2	12980.7	13128.8	13231.0
32.5°	15601.3	15310.1	15299.9	14891.2	14497.9	14308.9	14114.8	14237.4	13833.8	13864.4	13767.4
35°	16423.8	16464.7	16229.7	15938.5	15744.4	15412.3	14881.0	15100.7	15024.1	14988.3	14569.4
37.5°	17021.5	16863.1	16980.6	16883.6	16699.6	16285.9	15734.1	15943.6	15979.4	16153.0	15667.7
40°	17511.9	17445.5	17757.1	17808.2	17680.5	16786.5	15795.4	16418.7	16955.1	17333.1	16755.8
42.5°	17746.9	17889.9	18216.9	18610.2	18324.1	17368.9	16112.2	16781.4	17976.8	18574.5	17787.8
45°	18063.6	17879.7	18365.0	19085.3	19090.4	17859.3	16418.7	17271.8	18773.7	19642.1	18492.7
47.5°	17741.8	17833.7	18334.4	19248.8	19483.8	18375.2	17246.3	17966.6	19652.4	20423.7	19146.6
50°	17021.5	17205.4	18119.8	19070.0	19780.1	18921.8	18196.4	18717.5	20464.6	21052.1	19253.9
52.5°	16270.5	16372.7	17803.1	19207.9	19912.9	19626.8	19468.4	19754.5	21455.7	21762.2	19386.7
55°	14227.1	14712.4	16755.8	19146.6	20561.7	20898.8	20776.2	21195.1	22579.5	22886.0	20112.1
56°	13282.1	13537.5	16127.5	18860.5	20689.4	21363.7	21302.4	21491.4	23177.2	23499.0	20224.5
57.5°	11535.0	11555.4	13752.1	17593.6	20209.2	21501.6	21440.3	21588.5	23059.7	22840.1	19238.6
60°	7218.3	7535.0	9358.8	13532.4	17185.0	19948.6	20296.0	19105.7	19442.9	18978.0	14967.9
62.5°	3739.4	3693.4	4904.1	7913.0	11407.3	14283.3	14605.2	14549.0	14027.9	13348.5	9777.6
65°	1864.6	1874.8	2564.5	3918.2	5844.1	7478.8	8377.9	8475.0	7090.6	6523.5	4638.5
67.5°	1353.7	1404.8	1844.2	2395.9	2753.5	3080.4	3775.2	3703.7	2804.6	2666.6	2472.5
70°	1052.3	1098.3	1496.8	1828.8	1660.3	1660.3	1808.4	1869.7	1997.4	2053.6	2120.0
72.5°	766.3	802.0	1144.3	1261.8	1088.1	1169.8	1353.7	1496.8	1629.6	1650.0	1726.7
75°	526.2	556.8	750.9	694.8	653.9	807.1	991.0	1123.9	1220.9	1272.0	1318.0
77.5°	342.3	352.5	429.1	362.7	418.9	521.1	643.7	756.1	853.1	894.0	904.2
80°	153.3	168.6	183.9	229.9	291.2	372.9	459.8	551.7	613.0	628.3	659.0
82.5°	86.8	86.8	112.4	163.5	214.6	270.7	332.1	398.5	470.0	485.3	480.2
85°	46.0	46.0	66.4	97.1	132.8	158.4	153.3	158.4	168.6	194.1	189.0
87.5°	15.3	15.3	20.4	20.4	25.5	30.7	25.5	35.8	46.0	46.0	46.0
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°	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8	10492.8
2.5°	10477.5	10523.5	10462.2	10595.0	10595.0	10569.5	10441.8	10482.6	10513.3	10513.3	10538.8
5°	10676.7	10661.4	10702.3	10543.9	10446.9	10411.1	10201.7	10099.5	10012.6	10007.5	9930.9
7.5°	10789.1	10748.3	10732.9	10615.4	10186.3	9925.8	9476.2	9215.7	9159.5	8960.3	9036.9
10°	10967.9	11044.6	10967.9	10329.4	9731.7	9134.0	8694.6	8291.1	8132.7	8005.0	7928.4
12.5°	11335.7	11300.0	10855.5	9992.2	9154.4	8444.3	7790.4	7366.4	7208.1	7095.7	7085.5
15°	11647.4	11468.6	10789.1	9460.9	8255.3	7499.3	6962.9	6661.5	6589.9	6600.2	6646.1
17.5°	11754.6	11632.0	10441.8	8909.2	7586.1	6697.2	6446.9	6400.9	6467.3	6544.0	6564.4
20°	11923.2	11729.1	10298.7	8158.3	6758.5	6196.6	6181.3	6344.7	6467.3	6579.7	6595.1
22.5°	12275.7	11785.3	9833.8	7448.2	6191.5	6048.5	6196.6	6334.5	6523.5	6615.5	6533.8
25°	12377.9	11662.7	9180.0	6595.1	5833.9	5956.5	6114.9	6303.9	6436.7	6487.8	6523.5
27.5°	12464.7	11473.7	8296.2	6028.0	5721.5	5951.4	6114.9	6273.2	6344.7	6390.7	6431.6
30°	12709.9	11417.5	7529.9	5650.0	5650.0	5849.2	6058.7	6099.5	6196.6	6252.8	6324.3
32.5°	12832.5	11029.2	6743.2	5409.9	5578.5	5900.3	5915.6	5992.3	5997.4	6043.3	5966.7
35°	13154.4	10753.4	6012.7	5236.2	5609.1	5849.2	5925.8	5879.9	5629.6	5507.0	5532.5
37.5°	13389.3	10615.4	5486.5	5215.8	5614.2	5905.4	5946.3	5598.9	5338.4	5134.0	5185.1
40°	14022.8	10273.2	5088.1	5180.0	5660.2	5966.7	5854.3	5476.3	5006.3	4796.9	4761.1
42.5°	14508.1	10028.0	4837.7	5139.1	5696.0	6053.6	5808.4	5231.1	4750.9	4556.8	4607.9
45°	15070.0	9971.8	4704.9	5149.4	5757.3	6099.5	5752.2	5042.1	4531.2	4454.6	4439.3
47.5°	15269.3	9568.2	4561.9	5062.5	5741.9	6084.2	5563.1	4899.0	4449.5	4459.7	4500.6
50°	14937.2	9154.4	4454.6	4883.7	5639.8	5946.3	5266.9	4710.0	4403.5	4531.2	4602.7
52.5°	14513.2	8730.4	4234.9	4643.6	5430.3	5731.7	5128.9	4699.8	4357.5	4316.7	4332.0
55°	14640.9	8383.0	3928.4	4316.7	5093.2	5333.3	4975.7	4602.7	4245.2	4091.9	4143.0
56°	14227.1	8025.4	3729.2	4112.3	4863.3	5077.8	4899.0	4515.9	4153.2	4051.0	4051.0
57.5°	13057.3	6824.9	3468.7	3785.4	4378.0	4633.4	4750.9	4464.8	4051.0	3872.2	3877.3
60°	9629.5	4853.1	3111.1	3335.8	3627.0	3831.4	4378.0	4321.8	3795.6	3673.0	3627.0
62.5°	5936.1	3545.3	2855.6	2942.5	3090.6	3259.2	3821.1	3913.1	3524.9	3392.0	3361.4
65°	3325.6	2712.6	2661.5	2697.3	2768.8	2855.6	3172.4	3376.7	3111.1	2906.7	2896.5
67.5°	2431.6	2426.5	2467.4	2498.1	2528.7	2528.7	2605.3	2687.1	2651.3	2487.8	2472.5
70°	2160.9	2176.2	2206.9	2212.0	2222.2	2186.4	2125.1	2099.6	2140.5	2038.3	2017.9
72.5°	1782.9	1833.9	1869.7	1874.8	1818.6	1772.6	1690.9	1604.1	1573.4	1553.0	1547.9
75°	1369.1	1404.8	1420.2	1415.1	1394.6	1328.2	1231.1	1144.3	1088.1	1026.8	1057.5
77.5°	924.6	975.7	1001.3	1001.3	970.6	868.4	822.5	756.1	699.9	633.5	643.7
80°	648.8	684.5	725.4	720.3	669.2	618.1	551.7	490.4	444.4	393.4	388.2
82.5°	485.3	505.7	526.2	516.0	480.2	429.1	383.1	326.9	275.9	240.1	240.1
85°	173.7	189.0	229.9	240.1	260.5	260.5	219.7	183.9	148.1	122.6	122.6
87.5°	51.1	51.1	56.2	56.2	51.1	56.2	46.0	51.1	56.2	35.8	35.8
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)