

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: P650782

Luminaire Tested: **GALN-SA3C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650782
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-SA3C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA 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: 13166.7 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

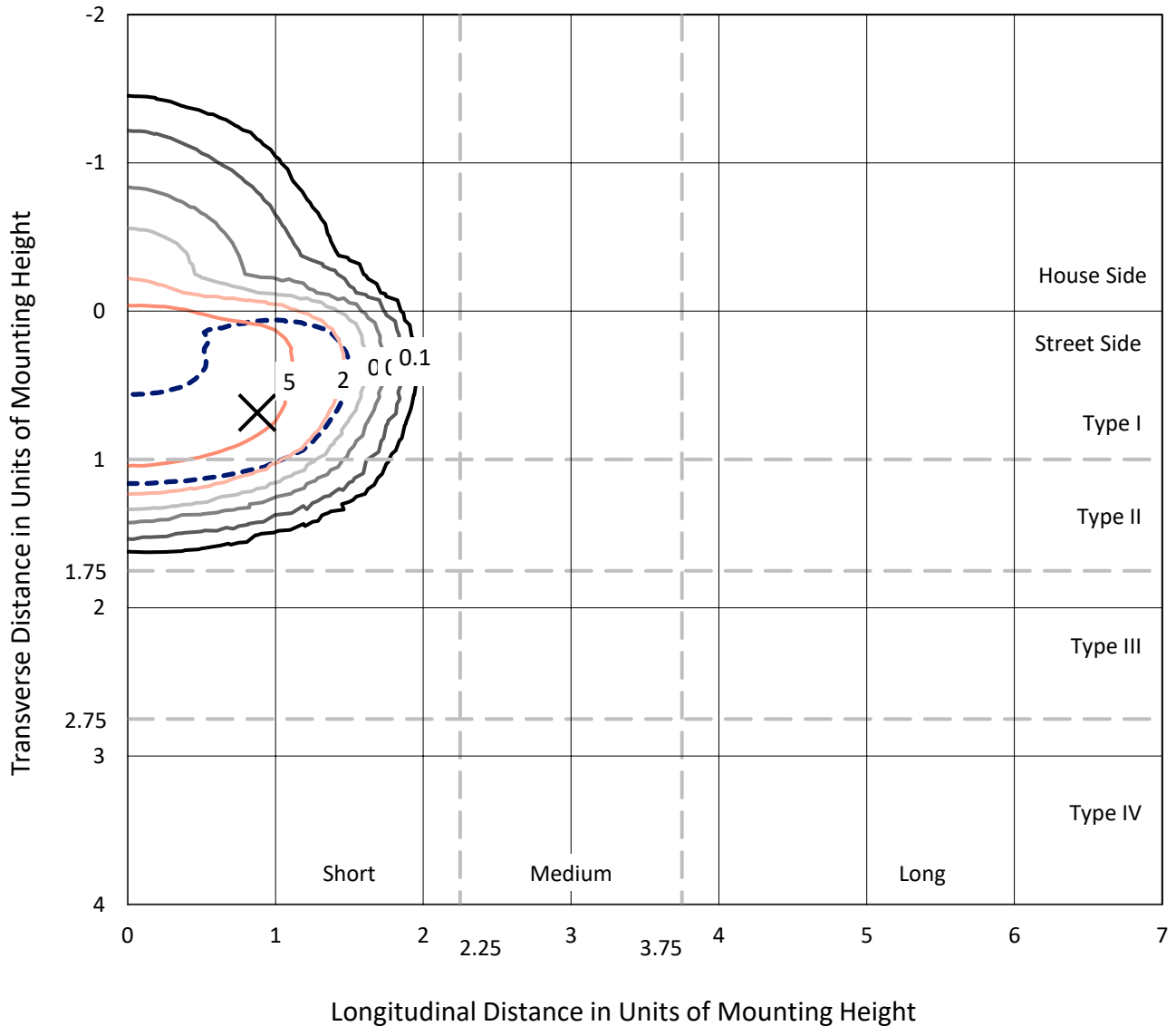
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

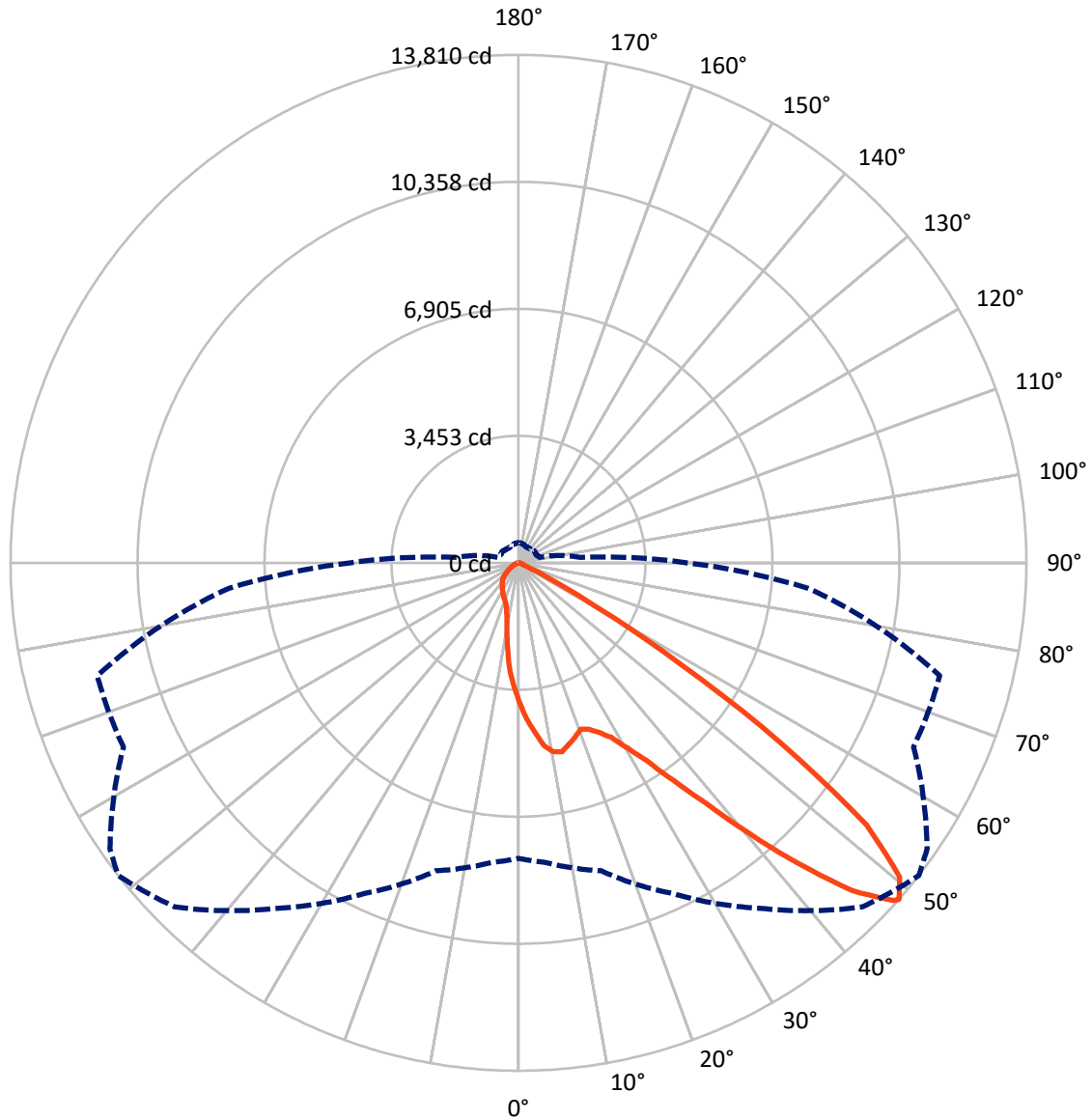
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	1603.2	0.0	1603.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11563.5	0.0	11563.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	13166.7	0.0	13166.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.0	2.6
10°-20°	909.5	6.9
20°-30°	1552.9	11.8
30°-40°	2859.7	21.7
40°-50°	4441.0	33.7
50°-60°	2672.8	20.3
60°-70°	309.1	2.3
70°-80°	59.8	0.5
80°-90°	13.8	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°	13166.7	100.0
0°-180°	13166.7	100.0

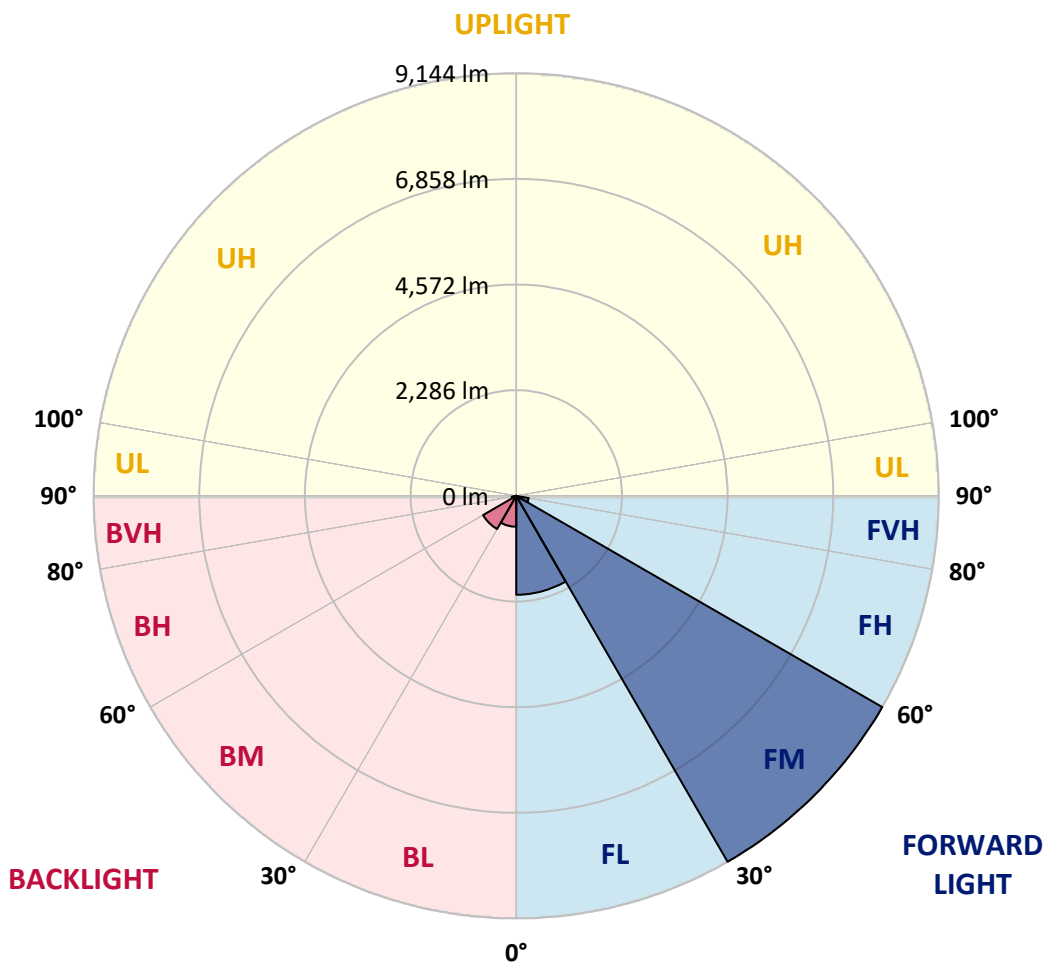


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.7	16.3			
FM (30°-60°)	9144.0	69.4			
FH (60°-80°)	272.2	2.1			G0/660
FVH (80°-90°)	6.6	0.0			G0/10
BL (0°-30°)	669.7	5.1	B2/1000		
BM (30°-60°)	829.4	6.3	B1/1000		
BH (60°-80°)	96.8	0.7	B0/110		G0/110
BVH (80°-90°)	7.3	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3
2.5°	4608.4	4502.9	4512.5	4443.4	4403.1	4337.8	4249.6	4232.2	4136.3	4005.8	3873.3
5°	5023.0	4998.1	5030.8	4931.0	4934.7	4827.3	4619.9	4623.8	4403.1	4190.0	3984.7
7.5°	5050.0	4992.3	5025.0	5113.3	5165.1	5145.9	5028.8	4927.1	4717.8	4405.0	4105.6
10°	4522.1	4631.5	4666.0	4811.9	5019.3	5238.0	5224.6	5230.3	5055.7	4646.9	4209.2
12.5°	4205.4	4132.4	4249.6	4337.8	4650.7	5074.8	5268.8	5311.0	5324.4	4881.0	4312.9
15°	4061.4	4061.4	4080.6	4105.6	4332.1	4723.6	5119.0	5241.9	5531.7	5188.1	4476.1
17.5°	4151.7	4147.8	4174.7	4122.8	4207.4	4508.7	4980.8	5120.9	5764.0	5489.5	4604.6
20°	4426.1	4439.6	4422.3	4272.6	4278.3	4504.8	4827.3	5048.0	5921.3	5750.5	4775.5
22.5°	4808.1	4815.7	4717.8	4554.7	4506.8	4618.1	4915.6	5084.5	6048.1	6063.4	4827.3
25°	5249.5	5218.8	5199.7	4969.3	4823.5	4919.4	5115.2	5213.1	6126.7	6332.1	4975.1
27.5°	5861.9	5800.4	5683.3	5477.9	5370.5	5234.2	5374.3	5535.5	6351.3	6708.3	5136.3
30°	6765.8	6712.1	6483.7	6218.9	5936.7	5802.3	5846.5	5934.8	6756.3	7144.0	5349.3
32.5°	8126.8	8013.5	7683.4	7178.5	6794.7	6424.2	6412.7	6506.7	7119.1	7746.7	5602.7
35°	9625.7	9591.2	9105.6	8585.4	7842.7	7270.7	7280.3	7330.2	7813.9	8537.5	5934.8
37.5°	10621.9	10812.0	10502.9	9944.4	9320.6	8502.9	8295.6	8312.9	8767.8	9474.1	6533.6
40°	11391.6	11230.4	11266.9	11136.4	10710.2	10153.6	9694.9	9604.6	9871.5	10510.6	7128.7
42.5°	11055.7	11063.4	11288.0	11597.0	11702.5	11662.2	11193.9	11023.1	10815.8	11359.0	7694.9
45°	10107.6	10305.3	10597.0	11414.6	12132.5	12806.2	12714.1	12430.0	11468.4	12030.8	8021.1
47.5°	8595.0	8587.4	9065.3	10128.7	11723.7	13301.4	13719.8	13520.3	11930.9	11955.9	7954.0
48°	8036.5	8174.7	8668.0	9919.4	11464.5	13228.5	13810.1	13558.6	11852.3	11856.1	7896.4
50°	5940.6	5915.6	6529.8	8065.3	10240.0	12430.0	13430.0	13625.8	11850.4	11351.3	7493.3
52.5°	3138.2	3245.7	3692.9	5071.1	7240.0	10172.8	11846.5	12151.7	11431.9	10526.0	6913.7
55°	1334.0	1205.4	1549.0	2289.9	4073.0	6796.5	8691.1	9370.5	9666.1	9314.8	6048.1
57.5°	476.0	520.2	598.9	861.8	1712.1	3719.8	5182.4	5710.2	6696.8	6835.0	4121.0
60°	305.2	310.9	335.9	395.4	643.0	1433.8	2458.7	2879.1	3326.3	3433.8	1923.2
62.5°	236.1	238.0	249.5	259.1	305.2	556.7	923.2	1094.1	1136.3	977.0	504.8
65°	197.7	199.7	203.4	203.4	216.9	261.0	322.4	355.1	345.5	341.6	286.0
67.5°	151.6	155.5	163.2	163.2	170.8	159.3	178.5	190.0	215.0	261.0	243.7
70°	119.0	120.9	126.7	130.5	130.5	115.1	128.6	140.1	157.4	193.9	191.9
72.5°	92.1	96.0	99.8	99.8	94.0	78.7	92.1	101.8	113.3	134.4	130.5
75°	71.0	71.0	72.9	59.5	46.1	40.3	55.7	67.2	84.4	88.3	72.9
77.5°	19.2	21.1	19.2	17.2	19.2	28.8	36.5	42.2	53.7	53.7	48.0
80°	0.0	1.9	5.7	11.5	19.2	26.9	32.6	36.5	42.2	46.1	44.2
82.5°	0.0	1.9	5.7	11.5	17.2	21.1	28.8	30.7	34.6	40.3	40.3
85°	0.0	1.9	3.9	7.7	11.5	13.5	13.5	11.5	11.5	9.6	7.7
87.5°	0.0	0.0	1.9	3.9	3.9	5.7	5.7	5.7	5.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3	3802.3
2.5°	3821.5	3762.0	3671.8	3529.8	3393.5	3305.2	3220.8	3126.7	3074.9	3071.0	3042.2
5°	3867.6	3733.2	3518.2	3274.5	3013.5	2788.8	2562.4	2414.6	2282.1	2209.2	2195.8
7.5°	3892.6	3717.9	3370.5	2961.7	2516.4	2149.8	1896.4	1710.2	1637.3	1583.5	1581.6
10°	3944.4	3691.0	3149.7	2547.1	1996.2	1625.7	1451.1	1366.6	1326.3	1311.0	1287.9
12.5°	3982.7	3641.1	2923.2	2120.9	1577.7	1347.5	1270.7	1251.4	1253.3	1261.1	1251.4
15°	4036.5	3597.0	2618.0	1740.9	1324.4	1213.1	1213.1	1216.9	1243.8	1247.6	1245.7
17.5°	4032.7	3510.6	2303.2	1433.8	1170.8	1155.4	1161.3	1197.7	1215.0	1220.7	1207.3
20°	4078.7	3429.9	1978.9	1224.6	1084.5	1107.5	1145.9	1155.4	1176.6	1180.4	1165.0
22.5°	4065.3	3228.4	1677.5	1059.5	1019.2	1063.4	1101.7	1113.2	1107.5	1096.0	1094.1
25°	4040.3	3055.7	1401.2	950.1	971.2	1019.2	1055.7	1034.5	1023.1	1024.9	1026.9
27.5°	3996.2	2836.9	1172.8	873.3	905.9	977.0	975.1	967.4	978.9	969.3	978.9
30°	3988.5	2618.0	984.6	804.2	858.0	909.8	913.7	927.0	940.5	923.2	940.5
32.5°	4000.0	2378.1	850.3	762.0	829.1	831.1	873.3	886.8	877.2	838.8	842.6
35°	4088.4	2193.8	752.4	739.0	783.1	785.1	825.4	808.0	765.8	742.8	756.2
37.5°	4274.5	2040.4	706.4	717.9	721.7	746.6	748.6	714.0	717.9	715.9	723.6
40°	4512.5	1923.2	673.7	698.6	694.8	712.1	643.0	662.2	679.4	685.2	689.0
42.5°	4675.6	1838.8	652.6	667.9	660.3	629.6	591.1	610.4	623.8	644.9	648.7
45°	4748.6	1771.6	627.6	614.2	614.2	558.5	543.2	547.0	577.8	600.8	596.9
47.5°	4629.6	1706.3	583.5	543.2	556.7	510.6	493.2	493.2	525.9	554.7	548.9
48°	4583.5	1679.5	585.4	527.8	537.4	502.9	485.6	481.8	518.2	545.1	545.1
50°	4355.1	1579.7	535.5	485.6	466.4	462.6	451.0	454.9	477.9	502.9	502.9
52.5°	3909.8	1364.7	453.0	416.5	382.0	405.0	410.7	403.1	414.6	437.7	435.7
55°	3263.0	1048.0	362.8	345.5	318.7	343.5	355.1	345.5	334.0	351.3	351.3
57.5°	2090.2	564.3	289.8	293.7	266.8	291.7	301.3	278.3	257.2	270.6	268.7
60°	942.4	337.8	238.0	232.3	215.0	243.7	259.1	232.3	203.4	213.0	222.6
62.5°	353.1	239.9	180.4	176.6	172.7	199.7	207.3	186.2	157.4	163.2	165.1
65°	259.1	211.2	144.0	130.5	138.2	157.4	153.6	132.5	113.3	113.3	117.1
67.5°	220.8	184.3	117.1	101.8	101.8	103.6	96.0	84.4	78.7	82.5	86.4
70°	172.7	145.9	92.1	78.7	71.0	63.3	55.7	53.7	48.0	53.7	51.8
72.5°	111.3	97.9	71.0	59.5	53.7	44.2	36.5	34.6	28.8	26.9	26.9
75°	59.5	59.5	55.7	48.0	42.2	34.6	28.8	23.0	15.4	11.5	11.5
77.5°	42.2	46.1	49.9	46.1	38.3	28.8	23.0	15.4	7.7	3.9	3.9
80°	40.3	46.1	49.9	44.2	38.3	28.8	21.1	11.5	5.7	1.9	1.9
82.5°	36.5	42.2	46.1	40.3	34.6	25.0	19.2	11.5	5.7	1.9	1.9
85°	7.7	9.6	11.5	11.5	13.5	17.2	13.5	9.6	3.9	1.9	1.9
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	3.9	3.9	1.9	1.9	1.9
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)