

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: P529597

Luminaire Tested: **GALN-SA4D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16950 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

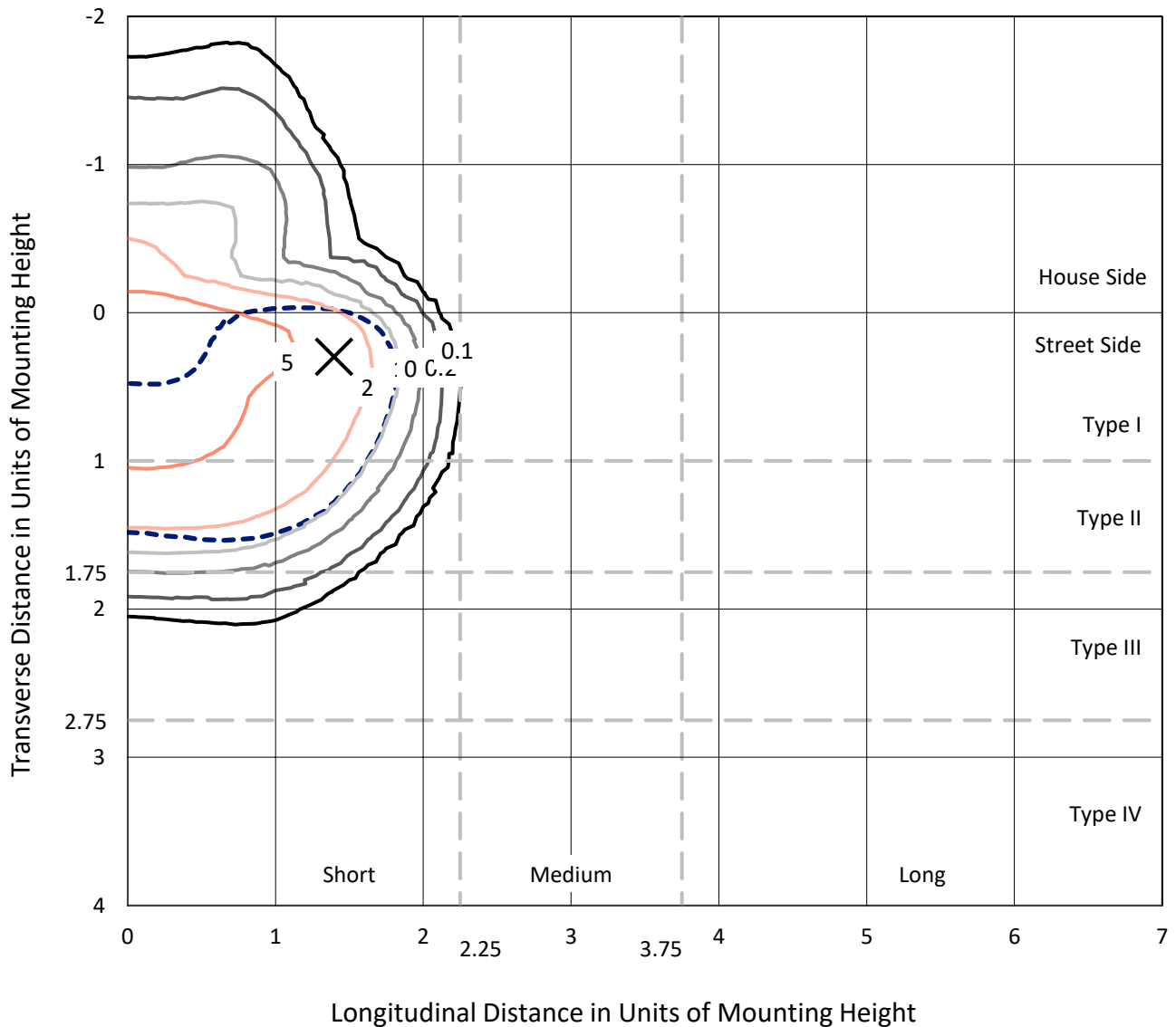
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

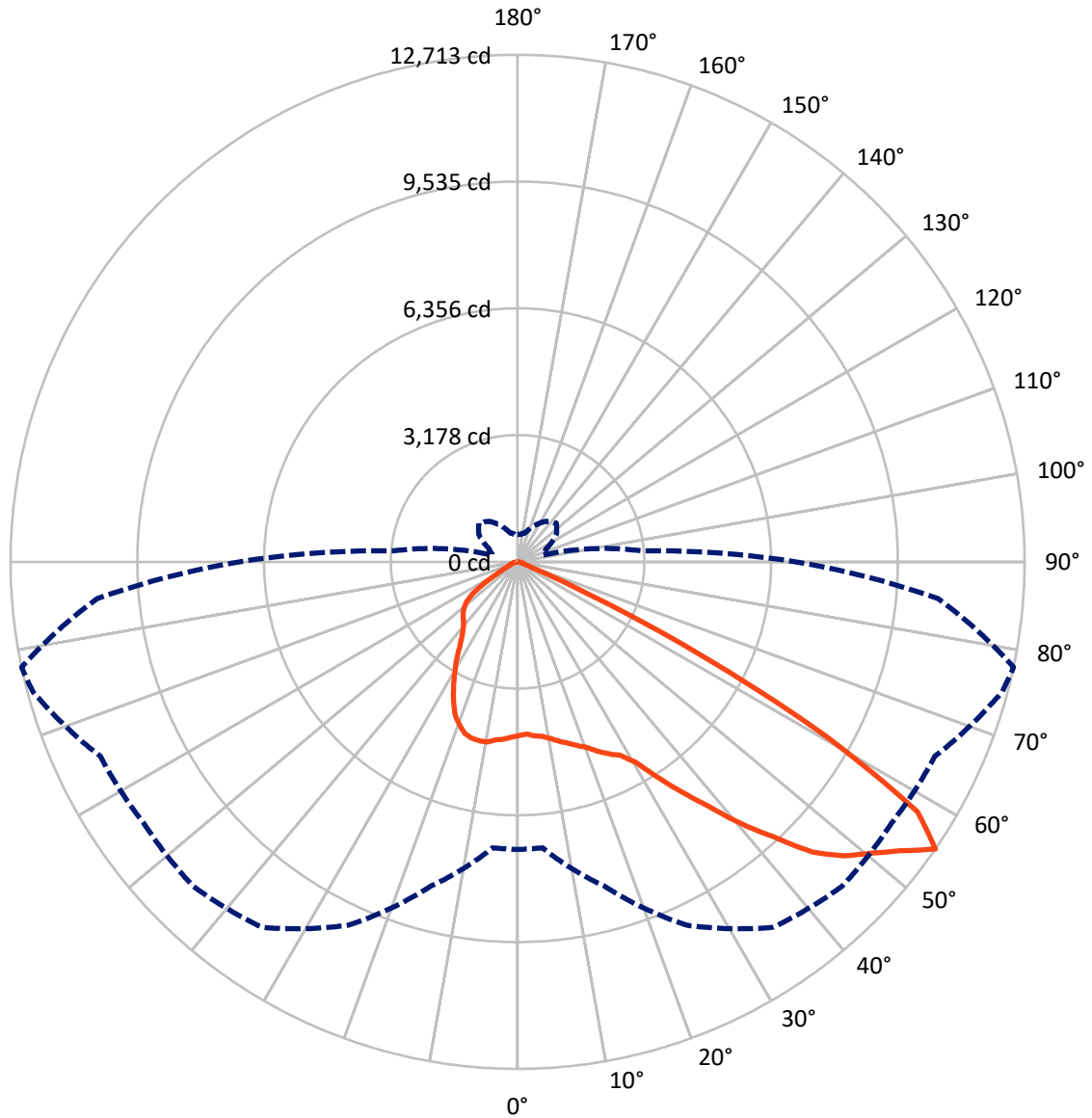
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3148.3	0.0	3148.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13801.7	0.0	13801.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	16950.0	0.0	16950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	2.3
10°-20°	1028.4	6.1
20°-30°	1802.6	10.6
30°-40°	2972.2	17.5
40°-50°	4325.0	25.5
50°-60°	4900.6	28.9
60°-70°	1401.2	8.3
70°-80°	108.8	0.6
80°-90°	22.6	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°	16950.0	100.0
0°-180°	16950.0	100.0

Coefficient of Utilization

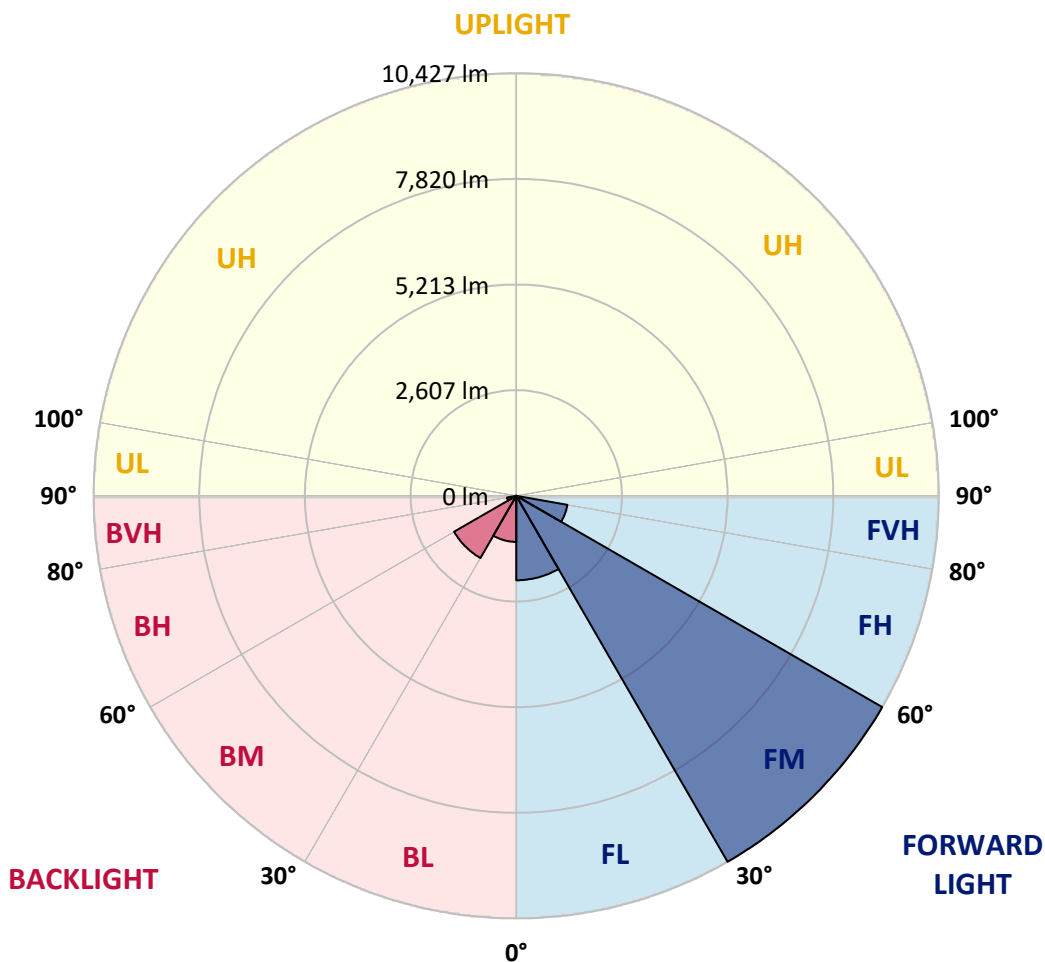


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2083.6	12.3			
FM (30°-60°)	10426.9	61.5			
FH (60°-80°)	1280.2	7.6			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	1135.9	6.7	B3/2500		
BM (30°-60°)	1771.0	10.4	B2/2500		
BH (60°-80°)	229.8	1.4	B1/500		G1/500
BVH (80°-90°)	11.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9
2.5°	4097.2	4136.6	4142.7	4191.2	4188.1	4270.0	4294.2	4297.2	4351.8	4324.5	4394.2
5°	3982.1	3960.9	3951.8	4036.6	4060.9	4133.6	4194.2	4230.6	4342.7	4382.1	4454.8
7.5°	3879.0	3879.0	3885.1	3960.9	3951.8	4045.7	4109.4	4221.5	4385.1	4418.5	4506.3
10°	3779.0	3742.7	3788.1	3866.9	3933.6	3976.0	4109.4	4215.4	4406.3	4503.3	4624.5
12.5°	3727.5	3745.7	3751.8	3809.3	3882.1	4009.3	4082.1	4257.8	4557.9	4615.4	4745.8
15°	4051.8	4015.4	3927.5	3876.0	3936.6	3997.2	4179.1	4357.9	4636.7	4718.5	4863.9
17.5°	4427.6	4397.3	4324.5	4185.1	4048.7	4160.9	4303.3	4467.0	4721.5	4842.7	5057.9
20°	4918.5	4870.0	4797.3	4524.5	4406.3	4285.1	4436.6	4630.6	4860.9	4970.0	5191.2
22.5°	5503.4	5503.4	5339.7	5009.4	4763.9	4648.8	4712.4	4824.6	5015.5	5164.0	5382.2
25°	6112.5	6094.3	5945.8	5603.4	5188.2	5051.8	5124.6	5203.4	5254.9	5336.7	5482.2
27.5°	6809.5	6703.5	6515.6	6136.8	5770.1	5506.4	5585.2	5515.5	5451.9	5494.3	5703.4
30°	7282.3	7349.0	7109.5	6745.9	6400.4	6106.5	6121.6	6061.0	5770.1	5830.7	5954.9
32.5°	7773.2	7815.7	7682.3	7482.3	7136.8	6794.4	6670.1	6618.6	6400.4	6427.7	6306.5
35°	8182.3	8264.2	8146.0	8058.1	7958.1	7682.3	7339.9	7506.5	7155.0	7088.3	6773.2
37.5°	8558.1	8533.9	8673.3	8582.4	8561.2	8367.2	7991.4	8024.8	7788.4	7773.2	7409.6
40°	8894.5	8900.6	9091.5	9133.9	9049.1	8703.6	8158.1	8421.8	8612.7	8630.9	8164.2
42.5°	9173.3	9255.1	9418.8	9761.2	9634.0	9058.2	8330.8	8618.7	9327.9	9440.0	8879.4
45°	9415.8	9582.4	9785.5	10091.6	10018.8	9561.2	8761.2	9024.8	10091.6	10385.5	9552.1
47.5°	9430.9	9649.1	9870.3	10324.9	10415.8	9830.9	9206.7	9667.3	10697.7	11015.9	10043.1
50°	9370.3	9485.5	9927.9	10421.9	10628.0	10270.4	9830.9	10206.7	11285.6	11485.6	10291.6
52.5°	8652.1	8740.0	9627.9	10512.8	11009.8	10767.4	10658.3	10958.3	11885.6	12034.1	10524.9
55°	7212.6	7197.4	8418.7	10055.2	11185.6	11503.8	11437.1	11543.2	12579.6	12712.9	10582.5
57.5°	4933.6	5209.4	6264.0	8373.3	10109.7	11331.0	11400.7	11225.0	11770.5	11822.0	9224.8
60°	2660.8	2775.9	3624.5	5588.2	7697.5	9233.9	9415.8	9097.6	9055.1	8909.7	6585.3
62.5°	1057.6	1115.2	1597.1	2766.8	4194.2	5612.5	6003.4	5873.1	5594.3	5212.5	3409.3
65°	503.1	539.4	794.0	1294.0	1860.7	2339.5	2730.5	2851.7	2103.2	1894.1	1124.3
67.5°	342.4	369.7	578.8	739.4	663.7	694.0	903.1	839.4	494.0	421.2	312.1
70°	260.6	278.8	463.7	503.1	297.0	209.1	233.3	218.2	203.0	206.1	203.0
72.5°	184.9	200.0	339.4	297.0	130.3	97.0	124.3	148.5	148.5	148.5	145.5
75°	112.1	127.3	197.0	115.2	51.5	51.5	78.8	100.0	106.1	109.1	103.0
77.5°	57.6	72.7	66.7	33.3	33.3	39.4	57.6	69.7	75.8	75.8	72.7
80°	12.1	12.1	12.1	18.2	33.3	42.4	57.6	63.6	72.7	72.7	66.7
82.5°	0.0	3.0	9.1	18.2	30.3	39.4	54.5	63.6	72.7	75.8	69.7
85°	0.0	3.0	6.1	12.1	21.2	24.2	21.2	18.2	18.2	18.2	18.2
87.5°	0.0	0.0	3.0	3.0	3.0	6.1	6.1	6.1	6.1	6.1	6.1
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°	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9	4357.9
2.5°	4400.3	4409.4	4394.2	4391.2	4379.1	4415.4	4327.5	4306.3	4360.9	4309.4	4321.5
5°	4457.9	4479.1	4451.8	4406.3	4339.7	4236.6	4148.8	4033.6	3979.0	3939.6	3933.6
7.5°	4500.3	4515.4	4488.2	4342.7	4142.7	3882.1	3688.1	3545.7	3433.6	3400.2	3345.7
10°	4673.0	4676.1	4539.7	4218.5	3827.5	3485.1	3188.1	2969.9	2857.8	2788.1	2757.8
12.5°	4788.2	4782.1	4506.3	3973.0	3451.7	2997.2	2657.7	2394.1	2291.1	2257.7	2236.5
15°	4933.6	4900.3	4427.6	3721.5	2966.9	2475.9	2169.8	1988.0	1978.9	1957.7	1978.9
17.5°	5048.8	4954.9	4312.4	3263.8	2503.2	2039.5	1839.5	1851.6	1875.9	1897.1	1900.1
20°	5236.7	5042.7	4048.7	2863.8	2072.9	1748.6	1745.6	1800.1	1860.7	1885.0	1909.2
22.5°	5379.1	5079.1	3766.9	2436.5	1721.3	1630.4	1681.9	1763.7	1809.2	1833.5	1869.8
25°	5430.7	4979.1	3391.1	2009.2	1551.6	1575.9	1654.7	1709.2	1766.8	1794.1	1778.9
27.5°	5482.2	4927.6	2942.6	1654.7	1460.7	1539.5	1606.2	1660.7	1678.9	1715.3	1739.5
30°	5606.4	4748.8	2539.6	1430.4	1415.2	1515.2	1563.7	1581.9	1630.4	1651.6	1651.6
32.5°	5706.4	4679.1	2112.3	1324.3	1409.2	1527.4	1533.4	1533.4	1539.5	1524.3	1518.3
35°	5912.5	4439.7	1730.4	1260.7	1406.2	1530.4	1545.6	1494.0	1354.6	1300.1	1284.9
37.5°	6167.1	4285.1	1448.6	1245.5	1427.4	1566.8	1591.0	1397.1	1215.2	1127.3	1112.2
40°	6476.2	4176.0	1263.7	1239.5	1475.9	1651.6	1578.9	1321.3	1084.9	957.6	951.6
42.5°	6836.8	4076.0	1139.5	1236.4	1536.5	1739.5	1566.8	1257.7	951.6	866.7	878.8
45°	7124.7	4021.5	1054.6	1215.2	1557.7	1791.0	1575.9	1145.5	897.0	842.5	848.5
47.5°	7349.0	3906.3	984.9	1178.9	1554.6	1809.2	1494.0	1100.1	869.8	884.9	900.1
50°	7355.0	3751.8	897.0	1100.1	1509.2	1775.9	1400.1	1057.6	863.7	927.3	957.6
52.5°	7273.2	3533.6	803.1	987.9	1403.1	1660.7	1315.2	1039.5	836.4	830.4	866.7
55°	6982.3	3124.4	645.5	800.1	1184.9	1369.8	1239.5	1006.1	754.6	684.9	691.0
57.5°	5642.8	2239.5	475.8	572.8	839.4	1003.1	1118.3	991.0	678.8	581.9	584.9
60°	3494.2	1269.8	348.5	390.9	518.2	609.1	906.1	921.3	606.1	490.9	484.9
62.5°	1794.1	627.3	269.7	275.8	318.2	357.6	621.3	772.8	548.5	466.7	466.7
65°	600.0	309.1	236.4	212.1	212.1	221.2	375.8	536.4	463.7	390.9	390.9
67.5°	257.6	230.3	206.1	184.9	169.7	160.6	212.1	312.1	345.5	297.0	284.9
70°	200.0	194.0	178.8	154.6	133.3	121.2	124.3	160.6	197.0	190.9	184.9
72.5°	148.5	148.5	142.4	121.2	103.0	87.9	81.8	84.9	93.9	97.0	100.0
75°	103.0	106.1	106.1	93.9	75.8	63.6	54.5	45.5	36.4	30.3	27.3
77.5°	69.7	72.7	78.8	69.7	57.6	42.4	33.3	24.2	15.2	6.1	6.1
80°	60.6	69.7	75.8	69.7	60.6	45.5	33.3	18.2	9.1	0.0	0.0
82.5°	63.6	69.7	78.8	66.7	57.6	42.4	33.3	21.2	9.1	3.0	0.0
85°	15.2	15.2	18.2	21.2	27.3	30.3	24.2	15.2	9.1	3.0	0.0
87.5°	6.1	6.1	6.1	6.1	6.1	3.0	3.0	3.0	3.0	0.0	0.0
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)