

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: P531157

Luminaire Tested: **GALN-SA6B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531157
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-SA6B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 16307 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 243
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

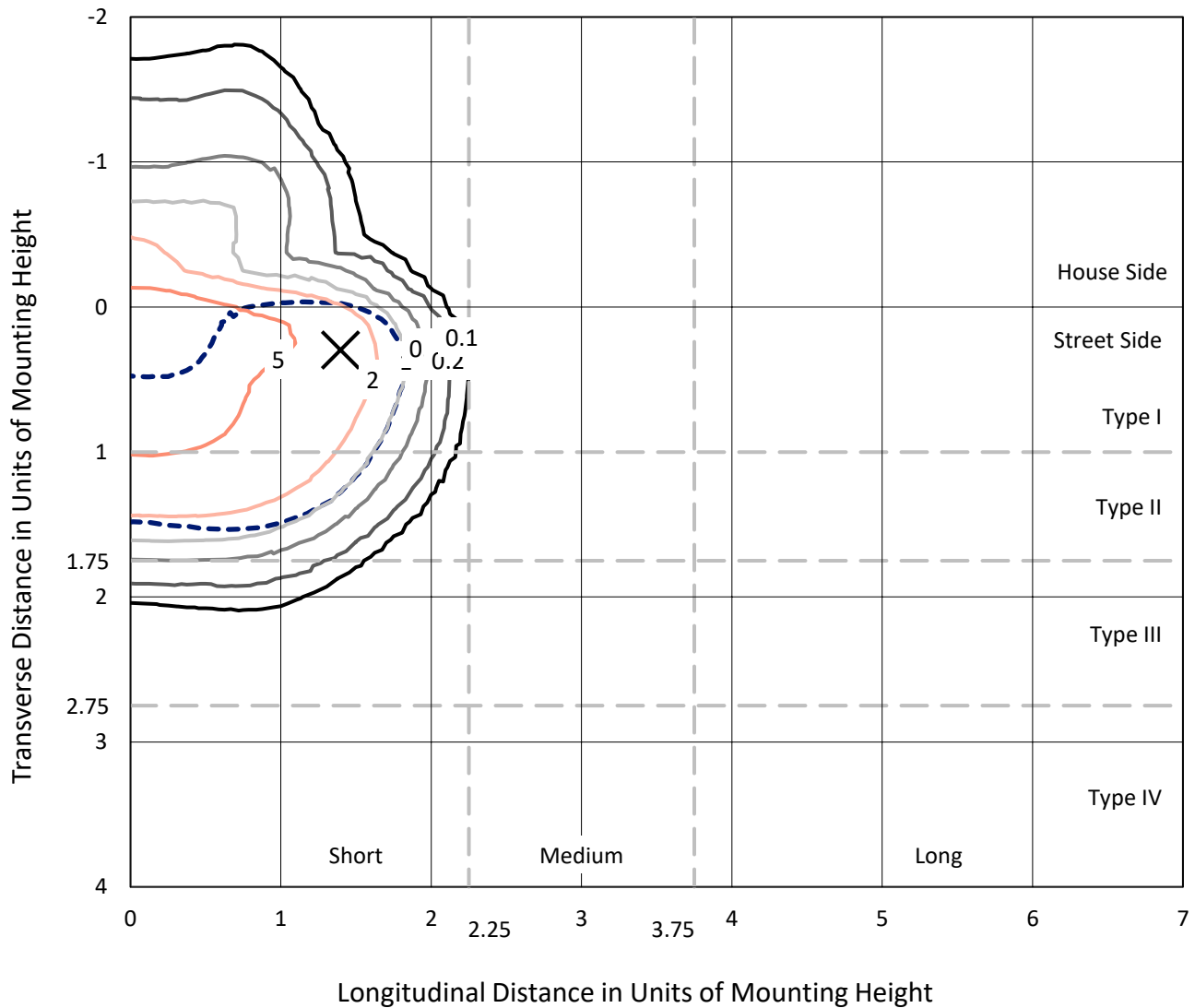


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

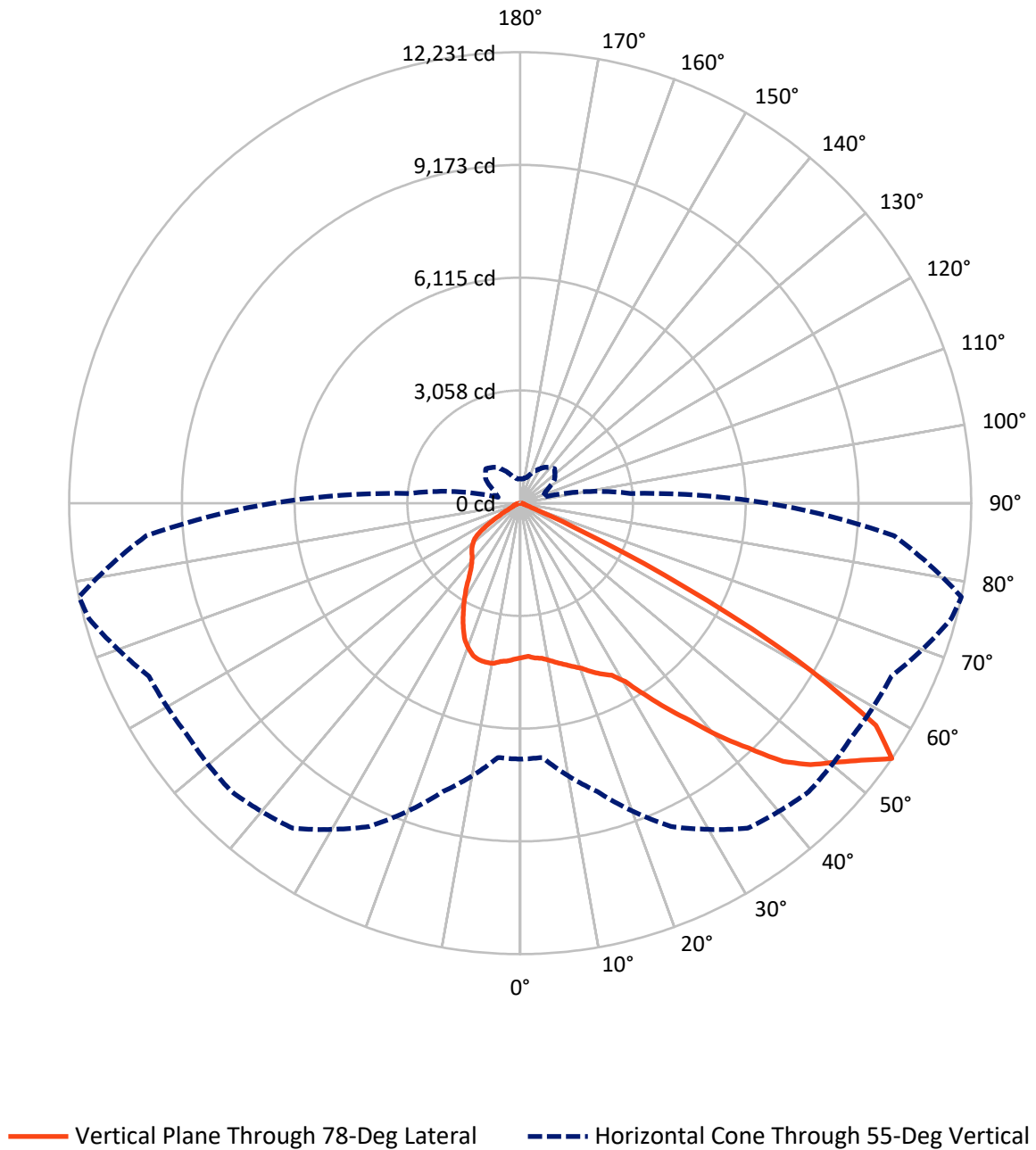


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3028.8	0.0	3028.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	13278.2	0.0	13278.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	16307.0	0.0	16307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.8	2.3
10°-20°	989.4	6.1
20°-30°	1734.2	10.6
30°-40°	2859.5	17.5
40°-50°	4160.9	25.5
50°-60°	4714.7	28.9
60°-70°	1348.0	8.3
70°-80°	104.7	0.6
80°-90°	21.8	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°	16307.0	100.0
0°-180°	16307.0	100.0

Coefficient of Utilization



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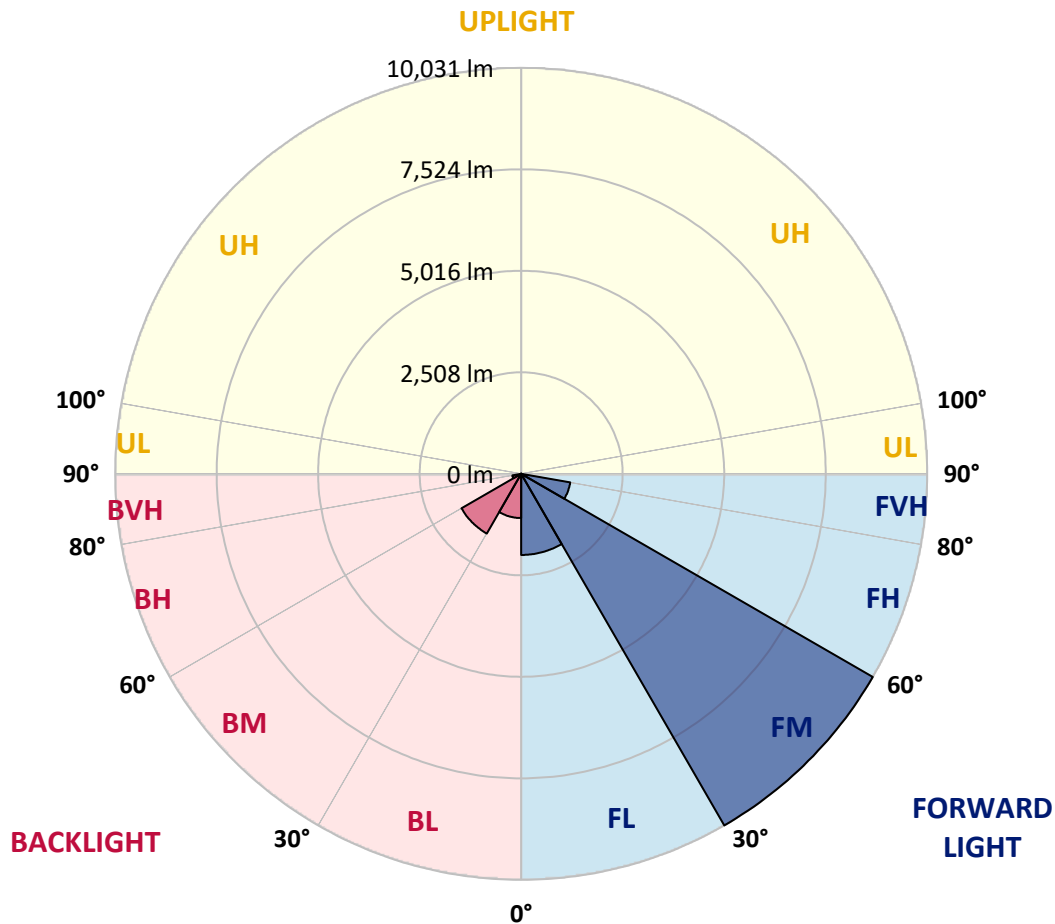
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2004.6	12.3			
FM	(30°-60°)	10031.3	61.5			
FH	(60°-80°)	1231.6	7.6			G1/1800
FVH	(80°-90°)	10.6	0.1			G1/100
BL	(0°-30°)	1092.8	6.7	B3/2500		
BM	(30°-60°)	1703.8	10.4	B2/2500		
BH	(60°-80°)	221.1	1.4	B1/500		G1/500
BVH	(80°-90°)	11.2	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°	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5
2.5°	3941.8	3979.7	3985.5	4032.2	4029.3	4108.0	4131.3	4134.2	4186.7	4160.5	4227.5
5°	3831.0	3810.6	3801.9	3883.5	3906.8	3976.8	4035.1	4070.1	4178.0	4215.9	4285.8
7.5°	3731.9	3731.9	3737.7	3810.6	3801.9	3892.2	3953.5	4061.3	4218.8	4250.8	4335.4
10°	3635.7	3600.7	3644.4	3720.2	3784.4	3825.2	3953.5	4055.5	4239.2	4332.5	4449.1
12.5°	3586.1	3603.6	3609.4	3664.8	3734.8	3857.3	3927.2	4096.3	4385.0	4440.4	4565.7
15°	3898.1	3863.1	3778.5	3729.0	3787.3	3845.6	4020.5	4192.5	4460.8	4539.5	4679.4
17.5°	4259.6	4230.4	4160.5	4026.4	3895.2	4003.0	4140.1	4297.5	4542.4	4659.0	4866.0
20°	4731.9	4685.3	4615.3	4352.9	4239.2	4122.6	4268.3	4454.9	4676.5	4781.5	4994.3
22.5°	5294.6	5294.6	5137.2	4819.4	4583.2	4472.4	4533.7	4641.5	4825.2	4968.1	5178.0
25°	5880.6	5863.1	5720.3	5390.8	4991.4	4860.2	4930.2	5006.0	5055.5	5134.3	5274.2
27.5°	6551.2	6449.2	6268.4	5904.0	5551.2	5297.5	5373.3	5306.3	5245.0	5285.9	5487.0
30°	7006.0	7070.2	6839.8	6490.0	6157.6	5874.8	5889.4	5831.1	5551.2	5609.5	5729.0
32.5°	7478.3	7519.2	7390.9	7198.5	6866.1	6536.6	6417.1	6367.5	6157.6	6183.8	6067.2
35°	7871.9	7950.7	7837.0	7752.4	7656.2	7390.9	7061.4	7221.8	6883.6	6819.4	6516.2
37.5°	8233.5	8210.1	8344.3	8256.8	8236.4	8049.8	7688.3	7720.3	7492.9	7478.3	7128.5
40°	8557.1	8562.9	8746.6	8787.4	8705.8	8373.4	7848.6	8102.3	8286.0	8303.4	7854.5
42.5°	8825.3	8904.0	9061.5	9390.9	9268.5	8714.5	8014.8	8291.8	8974.0	9081.9	8542.5
45°	9058.6	9218.9	9414.3	9708.7	9638.8	9198.5	8428.8	8682.5	9708.7	9991.5	9189.8
47.5°	9073.1	9283.1	9495.9	9933.2	10020.7	9458.0	8857.4	9300.6	10291.8	10598.0	9662.1
50°	9014.8	9125.6	9551.3	10026.5	10224.8	9880.7	9458.0	9819.5	10857.5	11049.9	9901.2
52.5°	8323.9	8408.4	9262.7	10114.0	10592.1	10358.9	10253.9	10542.6	11434.7	11577.6	10125.7
55°	6939.0	6924.4	8099.4	9673.7	10761.2	11067.4	11003.2	11105.3	12102.4	12230.7	10181.0
57.5°	4746.5	5011.8	6026.4	8055.6	9726.2	10901.2	10968.2	10799.1	11323.9	11373.5	8874.9
60°	2559.8	2670.6	3487.0	5376.2	7405.5	8883.6	9058.6	8752.4	8711.6	8571.7	6335.5
62.5°	1017.5	1072.9	1536.5	2661.9	4035.1	5399.6	5775.7	5650.3	5382.1	5014.7	3280.0
65°	484.0	519.0	763.9	1244.9	1790.1	2250.8	2626.9	2743.5	2023.4	1822.2	1081.7
67.5°	329.5	355.7	556.9	711.4	638.5	667.7	868.8	807.6	475.2	405.3	300.3
70°	250.7	268.2	446.1	484.0	285.7	201.2	224.5	209.9	195.3	198.3	195.3
72.5°	177.8	192.4	326.5	285.7	125.4	93.3	119.5	142.9	142.9	142.9	139.9
75°	107.9	122.5	189.5	110.8	49.6	49.6	75.8	96.2	102.0	105.0	99.1
77.5°	55.4	70.0	64.1	32.1	32.1	37.9	55.4	67.1	72.9	72.9	70.0
80°	11.7	11.7	11.7	17.5	32.1	40.8	55.4	61.2	70.0	70.0	64.1
82.5°	0.0	2.9	8.7	17.5	29.2	37.9	52.5	61.2	70.0	72.9	67.1
85°	0.0	2.9	5.8	11.7	20.4	23.3	20.4	17.5	17.5	17.5	17.5
87.5°	0.0	0.0	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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°	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5	4192.5
2.5°	4233.4	4242.1	4227.5	4224.6	4212.9	4247.9	4163.4	4143.0	4195.5	4145.9	4157.6
5°	4288.8	4309.2	4282.9	4239.2	4175.0	4075.9	3991.4	3880.6	3828.1	3790.2	3784.4
7.5°	4329.6	4344.1	4317.9	4178.0	3985.5	3734.8	3548.2	3411.2	3303.3	3271.2	3218.8
10°	4495.8	4498.7	4367.5	4058.4	3682.3	3352.9	3067.1	2857.2	2749.3	2682.3	2653.1
12.5°	4606.5	4600.7	4335.4	3822.3	3320.8	2883.5	2556.9	2303.3	2204.1	2172.1	2151.7
15°	4746.5	4714.4	4259.6	3580.3	2854.3	2382.0	2087.5	1912.6	1903.8	1883.4	1903.8
17.5°	4857.3	4766.9	4148.8	3140.0	2408.2	1962.2	1769.7	1781.4	1804.7	1825.1	1828.0
20°	5038.0	4851.5	3895.2	2755.2	1994.2	1682.3	1679.3	1731.8	1790.1	1813.5	1836.8
22.5°	5175.1	4886.4	3624.0	2344.1	1656.0	1568.6	1618.1	1696.8	1740.6	1763.9	1798.9
25°	5224.6	4790.2	3262.5	1933.0	1492.8	1516.1	1591.9	1644.4	1699.8	1726.0	1711.4
27.5°	5274.2	4740.7	2831.0	1591.9	1405.3	1481.1	1545.2	1597.7	1615.2	1650.2	1673.5
30°	5393.7	4568.6	2443.2	1376.1	1361.6	1457.8	1504.4	1521.9	1568.6	1589.0	1589.0
32.5°	5490.0	4501.6	2032.1	1274.1	1355.7	1469.4	1475.3	1475.3	1481.1	1466.5	1460.7
35°	5688.2	4271.3	1664.8	1212.9	1352.8	1472.3	1486.9	1437.4	1303.2	1250.8	1236.2
37.5°	5933.1	4122.6	1393.6	1198.3	1373.2	1507.3	1530.7	1344.1	1169.1	1084.6	1070.0
40°	6230.5	4017.6	1215.8	1192.5	1419.9	1589.0	1519.0	1271.2	1043.8	921.3	915.5
42.5°	6577.4	3921.4	1096.2	1189.5	1478.2	1673.5	1507.3	1209.9	915.5	833.8	845.5
45°	6854.4	3868.9	1014.6	1169.1	1498.6	1723.1	1516.1	1102.1	863.0	810.5	816.3
47.5°	7070.2	3758.1	947.5	1134.1	1495.7	1740.6	1437.4	1058.3	836.8	851.3	865.9
50°	7076.0	3609.4	863.0	1058.3	1451.9	1708.5	1347.0	1017.5	830.9	892.2	921.3
52.5°	6997.3	3399.5	772.6	950.5	1349.9	1597.7	1265.3	1000.0	804.7	798.9	833.8
55°	6717.4	3005.9	621.0	769.7	1140.0	1317.8	1192.5	968.0	726.0	658.9	664.7
57.5°	5428.7	2154.6	457.7	551.0	807.6	965.0	1075.8	953.4	653.1	559.8	562.7
60°	3361.6	1221.6	335.3	376.1	498.6	586.0	871.7	886.3	583.1	472.3	466.5
62.5°	1726.0	603.5	259.5	265.3	306.1	344.0	597.7	743.5	527.7	449.0	449.0
65°	577.3	297.4	227.4	204.1	204.1	212.8	361.5	516.0	446.1	376.1	376.1
67.5°	247.8	221.6	198.3	177.8	163.3	154.5	204.1	300.3	332.4	285.7	274.1
70°	192.4	186.6	172.0	148.7	128.3	116.6	119.5	154.5	189.5	183.7	177.8
72.5°	142.9	142.9	137.0	116.6	99.1	84.6	78.7	81.6	90.4	93.3	96.2
75°	99.1	102.0	102.0	90.4	72.9	61.2	52.5	43.7	35.0	29.2	26.2
77.5°	67.1	70.0	75.8	67.1	55.4	40.8	32.1	23.3	14.6	5.8	5.8
80°	58.3	67.1	72.9	67.1	58.3	43.7	32.1	17.5	8.7	0.0	0.0
82.5°	61.2	67.1	75.8	64.1	55.4	40.8	32.1	20.4	8.7	2.9	0.0
85°	14.6	14.6	17.5	20.4	26.2	29.2	23.3	14.6	8.7	2.9	0.0
87.5°	5.8	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	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)