

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: P529649

Luminaire Tested: **GALN-SA4D-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529649
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-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 18612 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

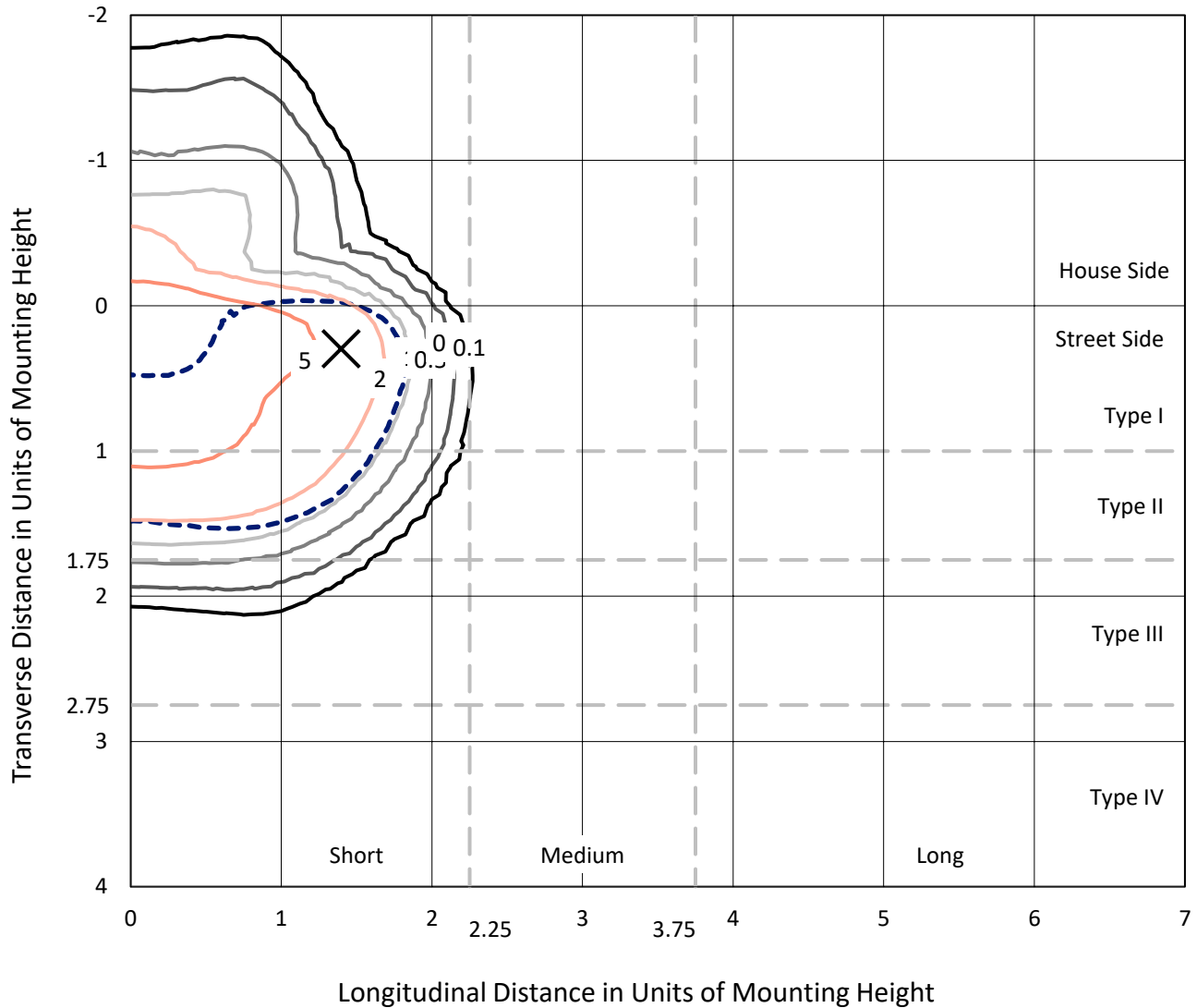
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

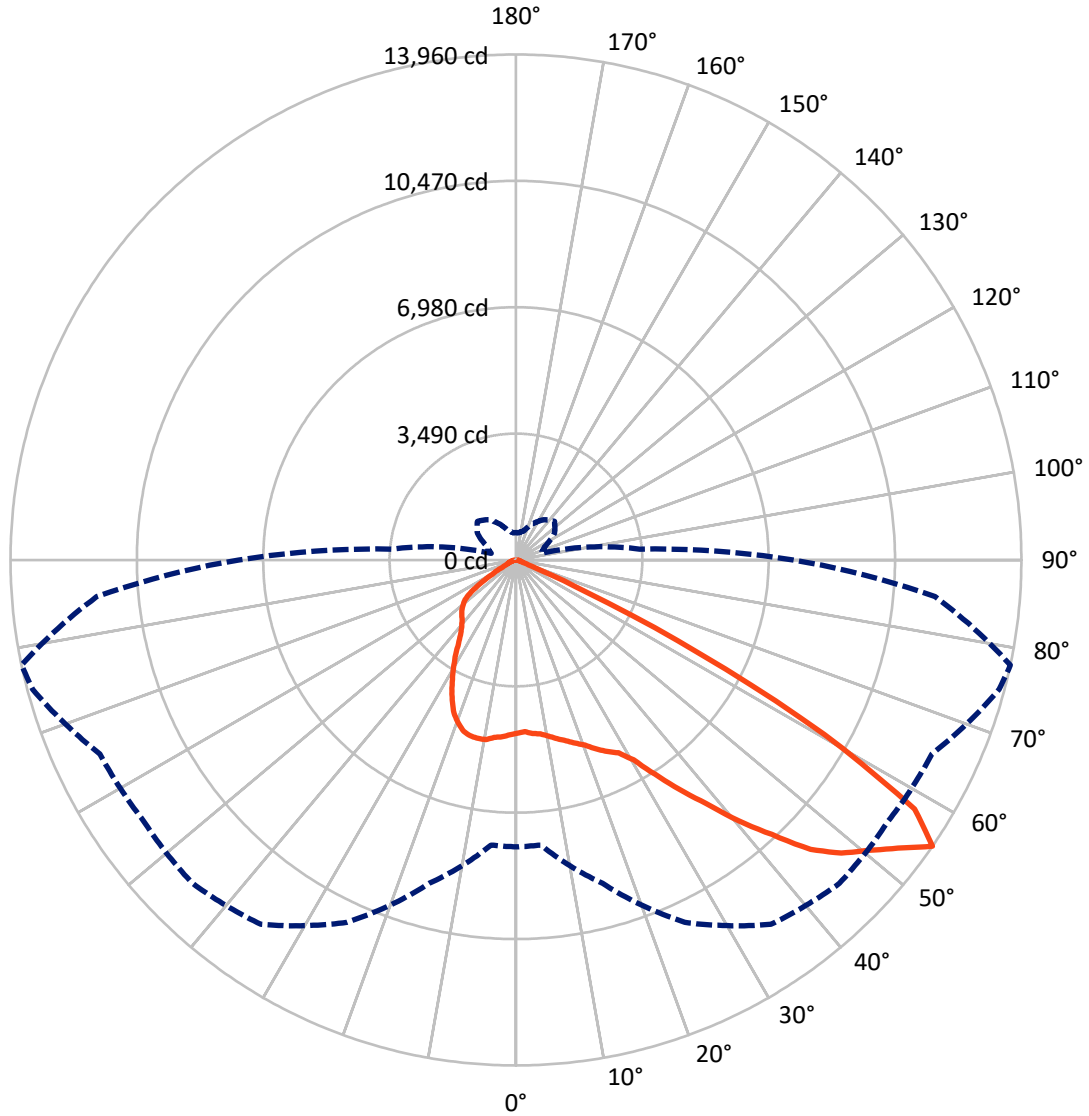
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3457.0	0.0	3457.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15155.0	0.0	15155.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	18612.0	0.0	18612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	2.3
10°-20°	1129.2	6.1
20°-30°	1979.3	10.6
30°-40°	3263.7	17.5
40°-50°	4749.0	25.5
50°-60°	5381.2	28.9
60°-70°	1538.6	8.3
70°-80°	119.5	0.6
80°-90°	24.9	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°	18612.0	100.0
0°-180°	18612.0	100.0

Coefficient of Utilization



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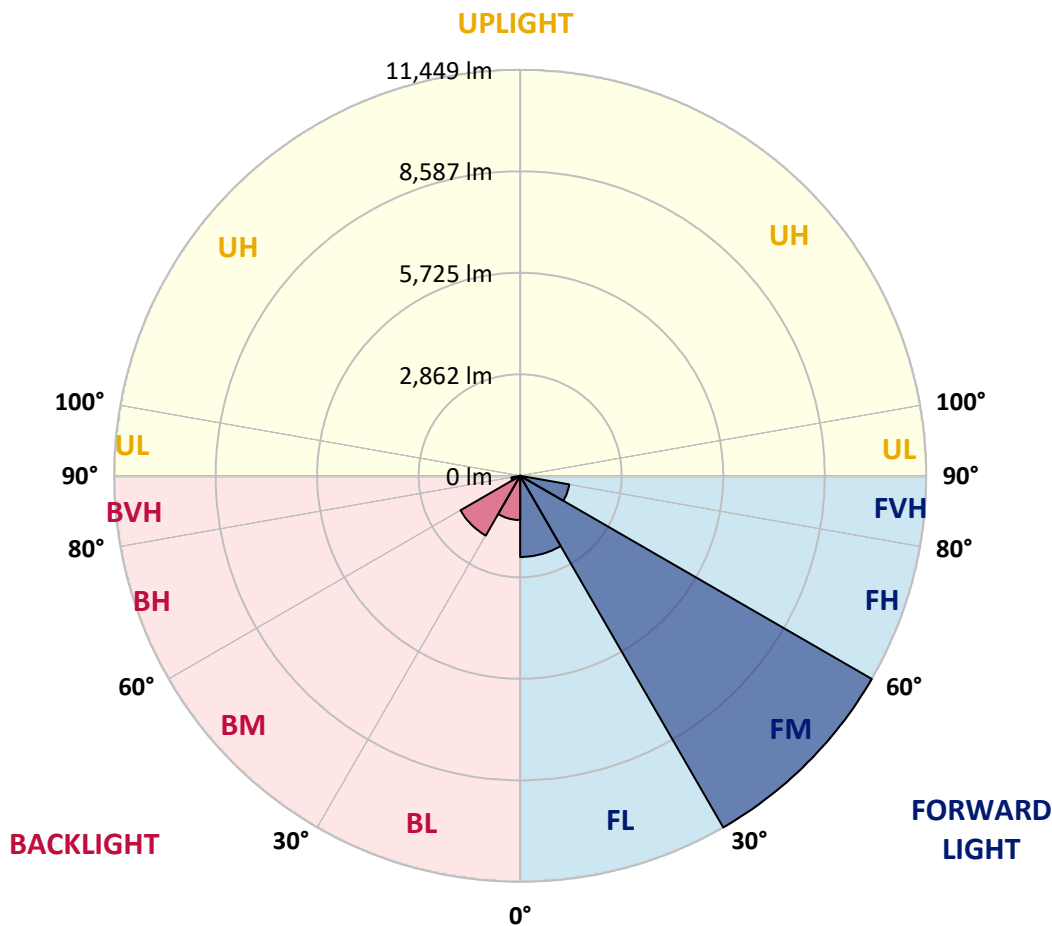
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2287.9	12.3			
FM (30°-60°)	11449.3	61.5			
FH (60°-80°)	1405.7	7.6			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1247.3	6.7	B3/2500		
BM (30°-60°)	1944.6	10.4	B2/2500		
BH (60°-80°)	252.3	1.4	B1/500		G1/500
BVH (80°-90°)	12.7	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°	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2
2.5°	4499.0	4542.2	4548.9	4602.1	4598.8	4688.7	4715.3	4718.6	4778.5	4748.6	4825.1
5°	4372.5	4349.2	4339.3	4432.4	4459.0	4538.9	4605.5	4645.4	4768.5	4811.8	4891.6
7.5°	4259.4	4259.4	4266.0	4349.2	4339.3	4442.4	4512.3	4635.4	4815.1	4851.7	4948.2
10°	4149.6	4109.6	4159.6	4246.1	4319.3	4365.9	4512.3	4628.8	4838.4	4944.9	5078.0
12.5°	4093.0	4113.0	4119.6	4182.9	4262.7	4402.5	4482.3	4675.3	5004.8	5068.0	5211.1
15°	4449.1	4409.1	4312.6	4256.1	4322.6	4389.2	4588.8	4785.2	5091.3	5181.1	5340.9
17.5°	4861.7	4828.4	4748.6	4595.5	4445.7	4568.9	4725.3	4905.0	5184.5	5317.6	5553.8
20°	5400.8	5347.5	5267.7	4968.2	4838.4	4705.3	4871.7	5084.6	5337.5	5457.3	5700.3
22.5°	6043.0	6043.0	5863.3	5500.6	5231.1	5104.6	5174.5	5297.6	5507.3	5670.3	5909.9
25°	6711.9	6691.9	6528.8	6152.8	5696.9	5547.2	5627.1	5713.6	5770.1	5860.0	6019.7
27.5°	7477.2	7360.8	7154.4	6738.5	6335.8	6046.3	6132.9	6056.3	5986.4	6033.0	6262.6
30°	7996.3	8069.5	7806.7	7407.3	7028.0	6705.2	6721.8	6655.3	6335.8	6402.4	6538.8
32.5°	8535.4	8582.0	8435.6	8216.0	7836.6	7460.6	7324.2	7267.6	7028.0	7057.9	6924.8
35°	8984.6	9074.5	8944.7	8848.2	8738.4	8435.6	8059.6	8242.6	7856.6	7783.4	7437.3
37.5°	9397.3	9370.7	9523.7	9423.9	9400.6	9187.6	8775.0	8811.6	8552.1	8535.4	8136.1
40°	9766.6	9773.3	9982.9	10029.5	9936.4	9557.0	8958.0	9247.5	9457.2	9477.1	8964.7
42.5°	10072.8	10162.6	10342.3	10718.4	10578.6	9946.3	9147.7	9463.8	10242.5	10365.6	9750.0
45°	10339.0	10522.0	10745.0	11081.1	11001.2	10498.7	9620.2	9909.7	11081.1	11403.8	10488.7
47.5°	10355.6	10595.2	10838.1	11337.3	11437.1	10794.9	10109.4	10615.2	11746.6	12096.0	11027.8
50°	10289.1	10415.5	10901.4	11443.8	11670.1	11277.4	10794.9	11207.5	12392.2	12611.8	11300.7
52.5°	9500.4	9596.9	10571.9	11543.6	12089.3	11823.1	11703.3	12032.8	13051.0	13214.1	11556.9
55°	7919.8	7903.2	9244.2	11041.1	12282.3	12631.7	12558.5	12675.0	13813.1	13959.5	11620.1
57.5°	5417.4	5720.2	6878.2	9194.3	11101.0	12442.1	12518.6	12325.6	12924.6	12981.2	10129.4
60°	2921.7	3048.1	3979.9	6136.2	8452.2	10139.3	10339.0	9989.6	9943.0	9783.3	7231.0
62.5°	1161.3	1224.6	1753.7	3038.1	4605.5	6162.8	6592.1	6449.0	6142.8	5723.6	3743.6
65°	552.4	592.3	871.8	1420.9	2043.2	2568.9	2998.2	3131.3	2309.4	2079.8	1234.6
67.5°	376.0	406.0	635.6	811.9	728.8	762.0	991.6	921.8	542.4	462.5	342.7
70°	286.2	306.1	509.1	552.4	326.1	229.6	256.2	239.6	223.0	226.3	223.0
72.5°	203.0	219.6	372.7	326.1	143.1	106.5	136.4	163.1	163.1	163.1	159.7
75°	123.1	139.8	216.3	126.5	56.6	56.6	86.5	109.8	116.5	119.8	113.1
77.5°	63.2	79.9	73.2	36.6	36.6	43.3	63.2	76.5	83.2	83.2	79.9
80°	13.3	13.3	13.3	20.0	36.6	46.6	63.2	69.9	79.9	79.9	73.2
82.5°	0.0	3.3	10.0	20.0	33.3	43.3	59.9	69.9	79.9	83.2	76.5
85°	0.0	3.3	6.7	13.3	23.3	26.6	23.3	20.0	20.0	20.0	20.0
87.5°	0.0	0.0	3.3	3.3	3.3	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°	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2	4785.2
2.5°	4831.7	4841.7	4825.1	4821.8	4808.4	4848.4	4751.9	4728.6	4788.5	4731.9	4745.2
5°	4895.0	4918.3	4888.3	4838.4	4765.2	4652.1	4555.5	4429.1	4369.2	4325.9	4319.3
7.5°	4941.6	4958.2	4928.2	4768.5	4548.9	4262.7	4049.7	3893.3	3770.2	3733.6	3673.7
10°	5131.2	5134.6	4984.8	4632.1	4202.8	3826.8	3500.7	3261.1	3138.0	3061.4	3028.2
12.5°	5257.7	5251.0	4948.2	4362.5	3790.2	3291.0	2918.3	2628.8	2515.7	2479.1	2455.8
15°	5417.4	5380.8	4861.7	4086.4	3257.8	2718.7	2382.6	2182.9	2173.0	2149.7	2173.0
17.5°	5543.9	5440.7	4735.2	3583.9	2748.6	2239.5	2019.9	2033.2	2059.8	2083.1	2086.4
20°	5750.2	5537.2	4445.7	3144.6	2276.1	1920.1	1916.7	1976.6	2043.2	2069.8	2096.4
22.5°	5906.6	5577.1	4136.3	2675.4	1890.1	1790.3	1846.8	1936.7	1986.6	2013.2	2053.2
25°	5963.1	5467.3	3723.6	2206.2	1703.8	1730.4	1816.9	1876.8	1940.0	1970.0	1953.3
27.5°	6019.7	5410.8	3231.1	1816.9	1603.9	1690.4	1763.7	1823.6	1843.5	1883.4	1910.1
30°	6156.1	5214.4	2788.6	1570.6	1554.0	1663.8	1717.1	1737.0	1790.3	1813.6	1813.6
32.5°	6266.0	5137.9	2319.4	1454.2	1547.4	1677.1	1683.8	1683.8	1690.4	1673.8	1667.2
35°	6492.2	4875.0	1900.1	1384.3	1544.0	1680.5	1697.1	1640.5	1487.5	1427.6	1410.9
37.5°	6771.8	4705.3	1590.6	1367.7	1567.3	1720.4	1747.0	1534.0	1334.4	1237.9	1221.2
40°	7111.2	4585.5	1387.6	1361.0	1620.6	1813.6	1733.7	1450.9	1191.3	1051.5	1044.9
42.5°	7507.2	4475.7	1251.2	1357.7	1687.1	1910.1	1720.4	1381.0	1044.9	951.7	965.0
45°	7823.3	4415.8	1158.0	1334.4	1710.4	1966.6	1730.4	1257.9	985.0	925.1	931.7
47.5°	8069.5	4289.3	1081.5	1294.5	1707.1	1986.6	1640.5	1207.9	955.0	971.7	988.3
50°	8076.2	4119.6	985.0	1207.9	1657.2	1950.0	1537.4	1161.3	948.4	1018.3	1051.5
52.5°	7986.4	3880.0	881.8	1084.8	1540.7	1823.6	1444.2	1141.4	918.4	911.8	951.7
55°	7666.9	3430.8	708.8	878.5	1301.1	1504.1	1361.0	1104.8	828.6	752.0	758.7
57.5°	6196.1	2459.1	522.4	628.9	921.8	1101.5	1227.9	1088.1	745.4	638.9	642.2
60°	3836.8	1394.3	382.7	429.3	569.0	668.9	995.0	1011.6	665.5	539.1	532.4
62.5°	1970.0	688.8	296.2	302.8	349.4	392.7	682.2	848.5	602.3	512.5	512.5
65°	658.9	339.4	259.6	232.9	232.9	242.9	412.6	589.0	509.1	429.3	429.3
67.5°	282.8	252.9	226.3	203.0	186.3	176.4	232.9	342.7	379.4	326.1	312.8
70°	219.6	213.0	196.3	169.7	146.4	133.1	136.4	176.4	216.3	209.6	203.0
72.5°	163.1	163.1	156.4	133.1	113.1	96.5	89.8	93.2	103.2	106.5	109.8
75°	113.1	116.5	116.5	103.2	83.2	69.9	59.9	49.9	39.9	33.3	29.9
77.5°	76.5	79.9	86.5	76.5	63.2	46.6	36.6	26.6	16.6	6.7	6.7
80°	66.6	76.5	83.2	76.5	66.6	49.9	36.6	20.0	10.0	0.0	0.0
82.5°	69.9	76.5	86.5	73.2	63.2	46.6	36.6	23.3	10.0	3.3	0.0
85°	16.6	16.6	20.0	23.3	29.9	33.3	26.6	16.6	10.0	3.3	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	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)