

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: P528461

Luminaire Tested: **GALN-SA3C-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528461
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-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 15656 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

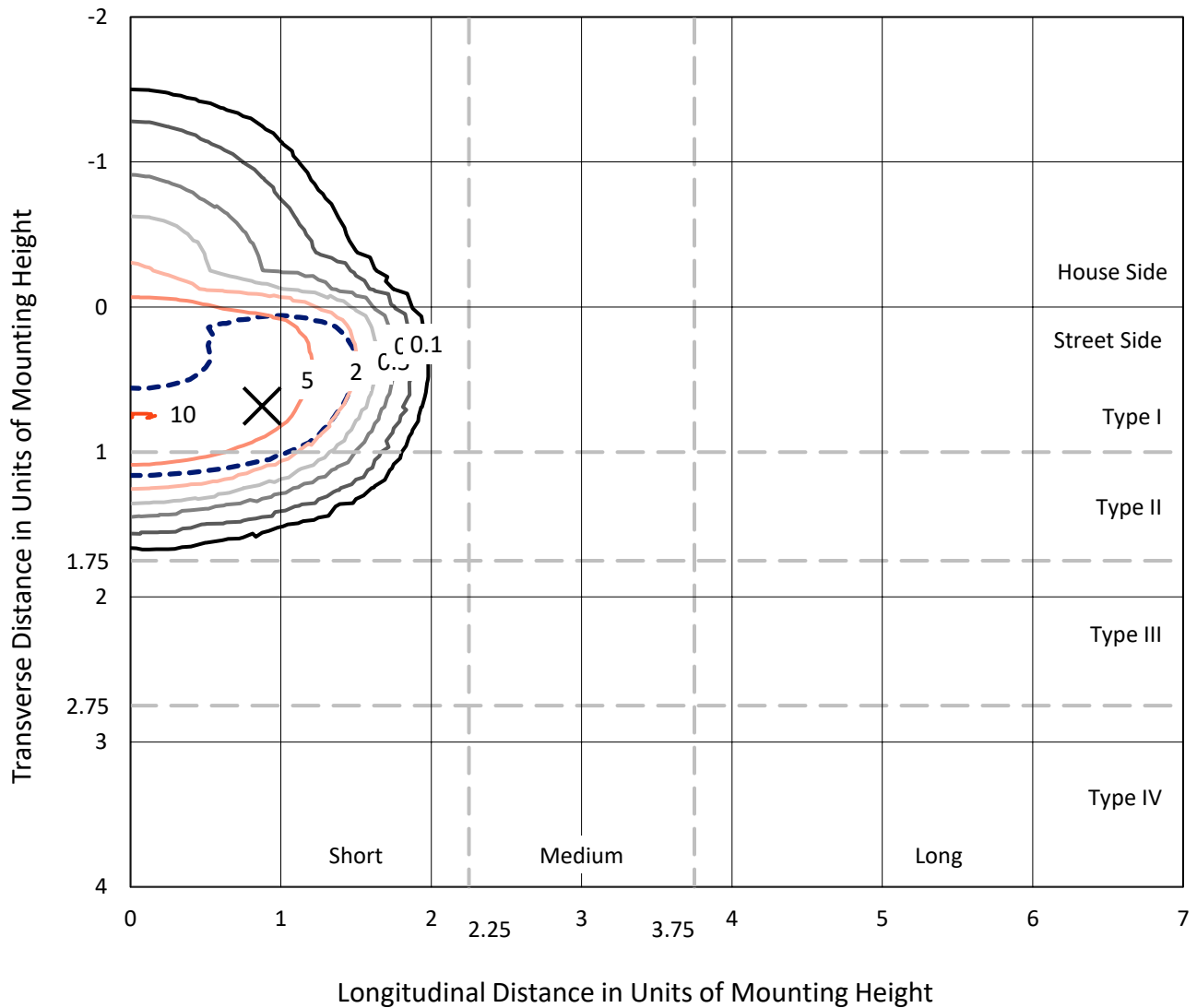
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

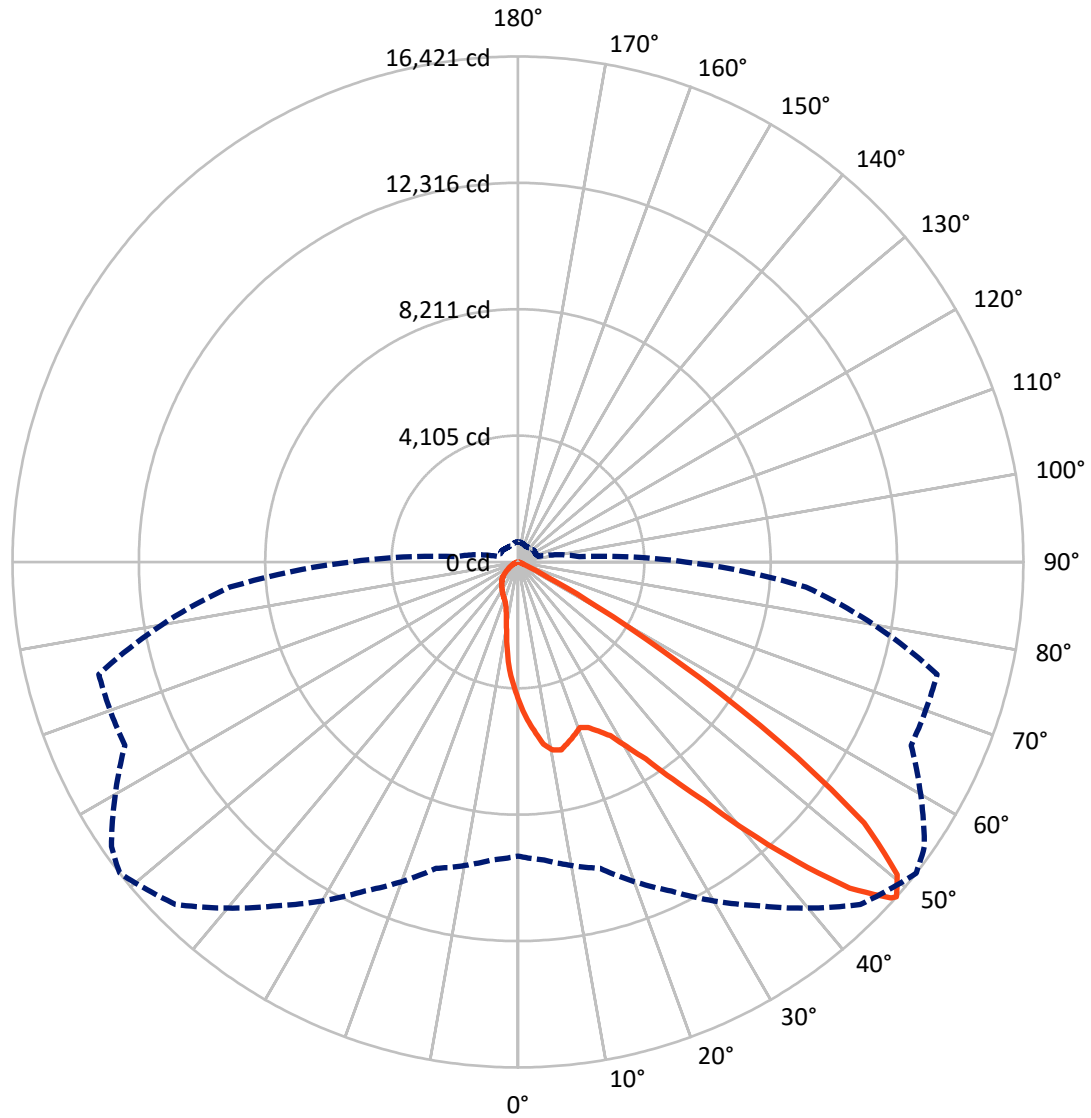
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	1906.2	0.0	1906.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13749.8	0.0	13749.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	15656.0	0.0	15656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	2.6
10°-20°	1081.5	6.9
20°-30°	1846.5	11.8
30°-40°	3400.3	21.7
40°-50°	5280.7	33.7
50°-60°	3178.1	20.3
60°-70°	367.6	2.3
70°-80°	71.2	0.5
80°-90°	16.4	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°	15656.0	100.0
0°-180°	15656.0	100.0

Coefficient of Utilization



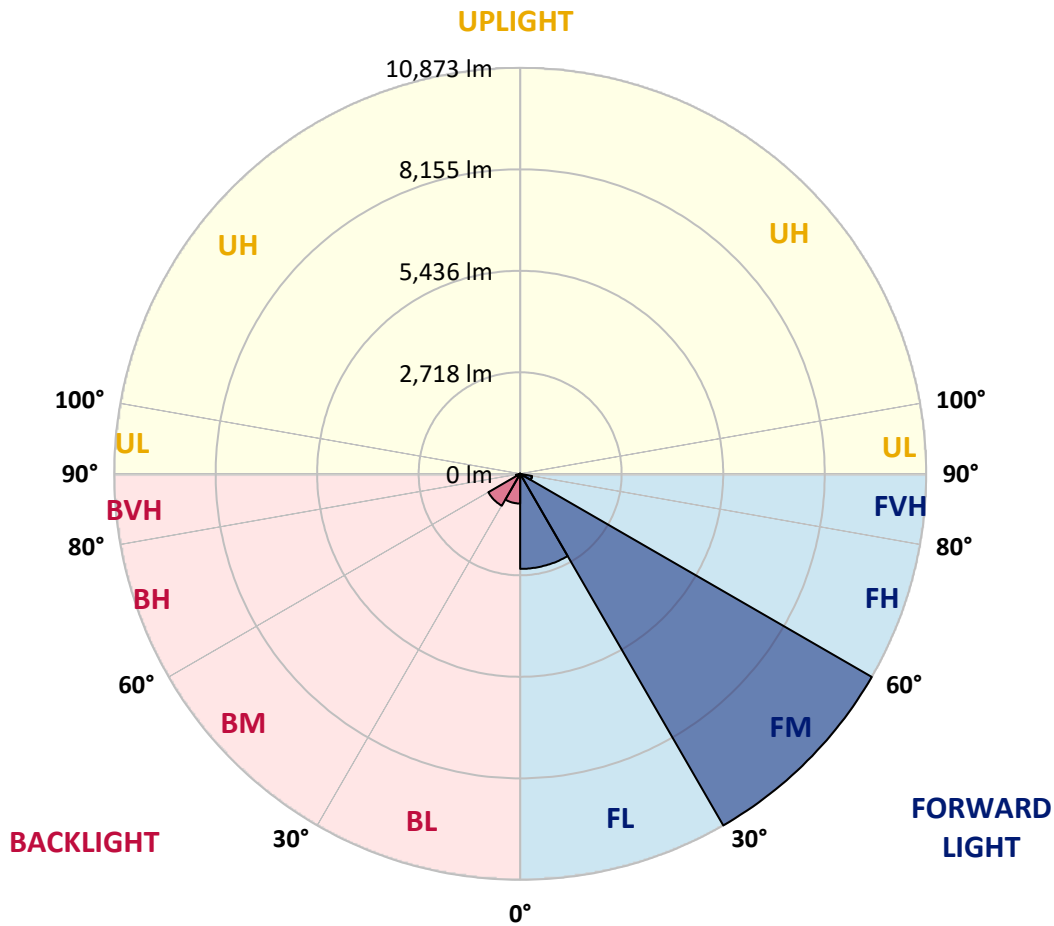
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2545.5	16.3			
FM (30°-60°)	10872.8	69.4			
FH (60°-80°)	323.7	2.1			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	796.3	5.1	B2/1000		
BM (30°-60°)	986.3	6.3	B1/1000		
BH (60°-80°)	115.1	0.7	B1/500		G1/500
BVH (80°-90°)	8.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2
2.5°	5479.7	5354.2	5365.6	5283.5	5235.5	5157.9	5053.0	5032.4	4918.3	4763.1	4605.6
5°	5972.7	5943.1	5981.9	5863.2	5867.7	5739.9	5493.4	5498.0	5235.5	4982.2	4738.0
7.5°	6004.7	5936.2	5975.0	6080.0	6141.6	6118.8	5979.6	5858.6	5609.8	5237.8	4881.8
10°	5377.0	5507.1	5548.2	5721.7	5968.2	6228.3	6212.4	6219.2	6011.5	5525.4	5005.0
12.5°	5000.5	4913.7	5053.0	5157.9	5530.0	6034.3	6264.9	6315.1	6331.0	5803.8	5128.3
15°	4829.3	4829.3	4852.1	4881.8	5151.1	5616.7	6086.8	6232.9	6577.5	6169.0	5322.3
17.5°	4936.6	4932.0	4964.0	4902.3	5002.8	5361.1	5922.5	6089.1	6853.7	6527.3	5475.2
20°	5262.9	5278.9	5258.4	5080.4	5087.2	5356.5	5739.9	6002.4	7040.8	6837.7	5678.3
22.5°	5717.1	5726.2	5609.8	5415.8	5358.8	5491.2	5844.9	6045.8	7191.5	7209.7	5739.9
25°	6242.0	6205.5	6182.7	5908.8	5735.4	5849.5	6082.3	6198.7	7285.0	7529.2	5915.7
27.5°	6970.1	6897.0	6757.8	6513.6	6385.8	6223.8	6390.4	6582.1	7552.1	7976.6	6107.4
30°	8045.0	7981.1	7709.5	7394.6	7059.1	6899.3	6951.8	7056.8	8033.6	8494.6	6360.7
32.5°	9663.2	9528.5	9136.0	8535.7	8079.3	7638.8	7625.1	7736.9	8465.0	9211.3	6662.0
35°	11445.6	11404.5	10827.1	10208.6	9325.4	8645.3	8656.7	8716.0	9291.2	10151.6	7056.8
37.5°	12630.1	12856.1	12488.6	11824.5	11082.7	10110.5	9864.0	9884.5	10425.4	11265.3	7768.9
40°	13545.3	13353.6	13397.0	13241.8	12735.1	12073.3	11527.8	11420.5	11737.8	12497.8	8476.4
42.5°	13145.9	13155.1	13422.1	13789.5	13915.0	13867.1	13310.2	13107.1	12860.6	13506.5	9149.7
45°	12018.5	12253.6	12600.5	13572.7	14426.3	15227.4	15117.8	14780.0	13636.6	14305.3	9537.6
47.5°	10220.0	10210.9	10779.2	12043.6	13940.2	15816.2	16313.7	16076.4	14186.6	14216.3	9457.8
48°	9555.9	9720.2	10306.8	11794.8	13632.0	15729.5	16421.0	16122.0	14093.1	14097.6	9389.3
50°	7063.7	7034.0	7764.3	9590.1	12176.0	14780.0	15969.1	16201.9	14090.8	13497.4	8910.0
52.5°	3731.5	3859.3	4391.1	6029.8	8608.8	12096.1	14086.2	14449.1	13593.2	12516.0	8220.8
55°	1586.2	1433.3	1841.8	2722.8	4843.0	8081.5	10334.2	11142.1	11493.6	11075.9	7191.5
57.5°	566.0	618.5	712.1	1024.7	2035.8	4423.1	6162.2	6789.8	7962.9	8127.2	4900.1
60°	362.9	369.7	399.4	470.1	764.6	1704.9	2923.6	3423.4	3955.2	4083.0	2286.8
62.5°	280.7	283.0	296.7	308.1	362.9	661.9	1097.8	1300.9	1351.1	1161.7	600.2
65°	235.1	237.4	241.9	241.9	257.9	310.4	383.4	422.2	410.8	406.2	340.1
67.5°	180.3	184.9	194.0	194.0	203.1	189.4	212.3	225.9	255.6	310.4	289.8
70°	141.5	143.8	150.6	155.2	155.2	136.9	152.9	166.6	187.1	230.5	228.2
72.5°	109.5	114.1	118.7	118.7	111.8	93.6	109.5	121.0	134.7	159.8	155.2
75°	84.4	84.4	86.7	70.8	54.8	47.9	66.2	79.9	100.4	105.0	86.7
77.5°	22.8	25.1	22.8	20.5	22.8	34.2	43.4	50.2	63.9	63.9	57.1
80°	0.0	2.3	6.8	13.7	22.8	32.0	38.8	43.4	50.2	54.8	52.5
82.5°	0.0	2.3	6.8	13.7	20.5	25.1	34.2	36.5	41.1	47.9	47.9
85°	0.0	2.3	4.6	9.1	13.7	16.0	16.0	13.7	13.7	11.4	9.1
87.5°	0.0	0.0	2.3	4.6	4.6	6.8	6.8	6.8	6.8	6.8	6.8
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°	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2	4521.2
2.5°	4544.0	4473.3	4366.0	4197.1	4035.1	3930.1	3829.7	3717.8	3656.2	3651.6	3617.4
5°	4598.8	4439.0	4183.4	3893.6	3583.2	3316.1	3046.8	2871.1	2713.6	2626.9	2610.9
7.5°	4628.5	4420.8	4007.7	3521.6	2992.1	2556.2	2254.9	2033.5	1946.8	1882.9	1880.6
10°	4690.1	4388.8	3745.2	3028.6	2373.6	1933.1	1725.4	1625.0	1577.1	1558.8	1531.4
12.5°	4735.7	4329.5	3475.9	2521.9	1876.0	1602.2	1510.9	1488.0	1490.3	1499.5	1488.0
15°	4799.6	4277.0	3113.0	2070.0	1574.8	1442.4	1442.4	1447.0	1478.9	1483.5	1481.2
17.5°	4795.1	4174.3	2738.7	1704.9	1392.2	1373.9	1380.8	1424.1	1444.7	1451.5	1435.6
20°	4849.8	4078.4	2353.0	1456.1	1289.5	1316.9	1362.5	1373.9	1399.0	1403.6	1385.3
22.5°	4833.9	3838.8	1994.7	1259.8	1211.9	1264.4	1310.0	1323.7	1316.9	1303.2	1300.9
25°	4804.2	3633.4	1666.1	1129.7	1154.8	1211.9	1255.3	1230.1	1216.5	1218.7	1221.0
27.5°	4751.7	3373.2	1394.5	1038.4	1077.2	1161.7	1159.4	1150.3	1164.0	1152.6	1164.0
30°	4742.6	3113.0	1170.8	956.3	1020.2	1081.8	1086.4	1102.3	1118.3	1097.8	1118.3
32.5°	4756.3	2827.7	1011.0	906.1	985.9	988.2	1038.4	1054.4	1043.0	997.4	1001.9
35°	4861.3	2608.6	894.7	878.7	931.2	933.5	981.4	960.8	910.6	883.2	899.2
37.5°	5082.6	2426.1	839.9	853.6	858.1	887.8	890.1	849.0	853.6	851.3	860.4
40°	5365.6	2286.8	801.1	830.7	826.2	846.7	764.6	787.4	807.9	814.8	819.3
42.5°	5559.6	2186.4	776.0	794.2	785.1	748.6	702.9	725.8	741.7	766.8	771.4
45°	5646.4	2106.5	746.3	730.3	730.3	664.1	645.9	650.4	687.0	714.4	709.8
47.5°	5504.9	2028.9	693.8	645.9	661.9	607.1	586.5	586.5	625.3	659.6	652.7
48°	5450.1	1997.0	696.1	627.6	639.0	598.0	577.4	572.9	616.2	648.2	648.2
50°	5178.5	1878.3	636.8	577.4	554.6	550.0	536.3	540.9	568.3	598.0	598.0
52.5°	4649.0	1622.7	538.6	495.3	454.2	481.6	488.4	479.3	493.0	520.4	518.1
55°	3879.9	1246.1	431.4	410.8	378.9	408.5	422.2	410.8	397.1	417.7	417.7
57.5°	2485.4	671.0	344.6	349.2	317.2	346.9	358.3	330.9	305.8	321.8	319.5
60°	1120.6	401.7	283.0	276.2	255.6	289.8	308.1	276.2	241.9	253.3	264.7
62.5°	419.9	285.3	214.5	210.0	205.4	237.4	246.5	221.4	187.1	194.0	196.3
65°	308.1	251.1	171.2	155.2	164.3	187.1	182.6	157.5	134.7	134.7	139.2
67.5°	262.5	219.1	139.2	121.0	121.0	123.2	114.1	100.4	93.6	98.1	102.7
70°	205.4	173.5	109.5	93.6	84.4	75.3	66.2	63.9	57.1	63.9	61.6
72.5°	132.4	116.4	84.4	70.8	63.9	52.5	43.4	41.1	34.2	32.0	32.0
75°	70.8	70.8	66.2	57.1	50.2	41.1	34.2	27.4	18.3	13.7	13.7
77.5°	50.2	54.8	59.3	54.8	45.6	34.2	27.4	18.3	9.1	4.6	4.6
80°	47.9	54.8	59.3	52.5	45.6	34.2	25.1	13.7	6.8	2.3	2.3
82.5°	43.4	50.2	54.8	47.9	41.1	29.7	22.8	13.7	6.8	2.3	2.3
85°	9.1	11.4	13.7	13.7	16.0	20.5	16.0	11.4	4.6	2.3	2.3
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	4.6	4.6	2.3	2.3	2.3
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)