

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: P530177

Luminaire Tested: **GALN-SA5B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530177
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-SA5B-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 15627 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

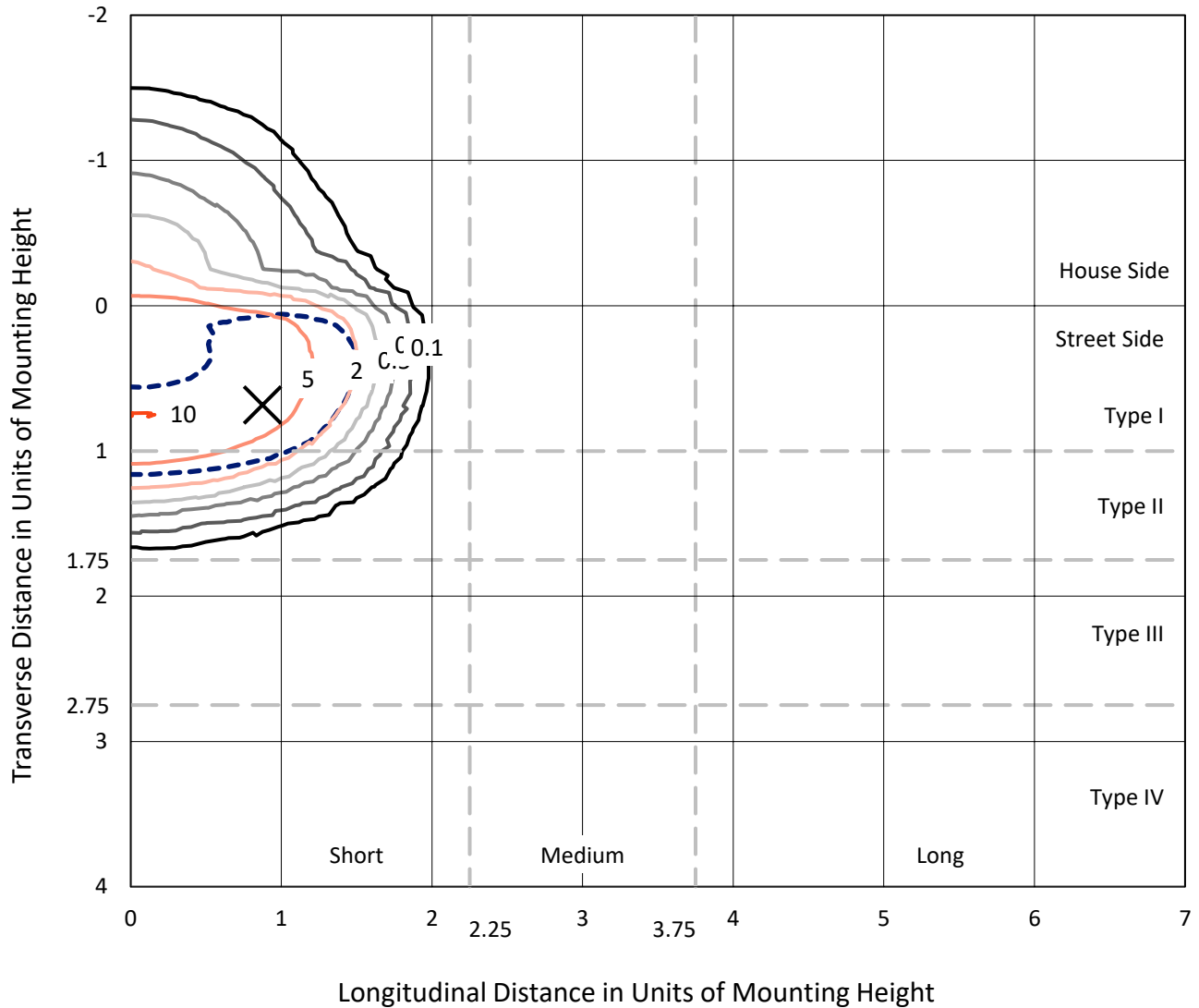
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

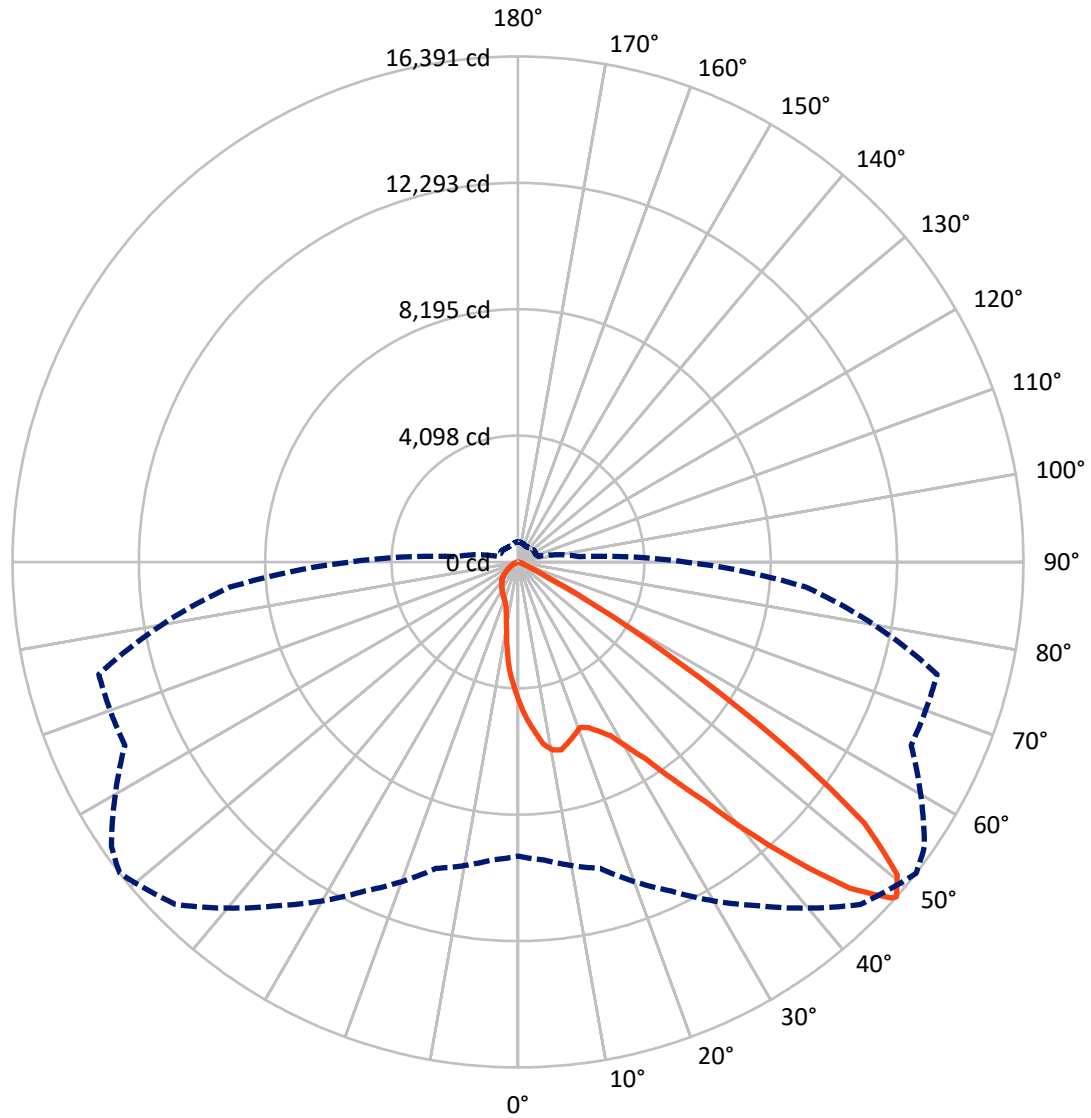
× Max cd
 - - - 1/2 Max cd



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	1902.7	0.0	1902.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13724.3	0.0	13724.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	15627.0	0.0	15627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.1	2.6
10°-20°	1079.5	6.9
20°-30°	1843.1	11.8
30°-40°	3394.0	21.7
40°-50°	5270.9	33.7
50°-60°	3172.2	20.3
60°-70°	366.9	2.3
70°-80°	71.0	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°	15627.0	100.0
0°-180°	15627.0	100.0

Coefficient of Utilization



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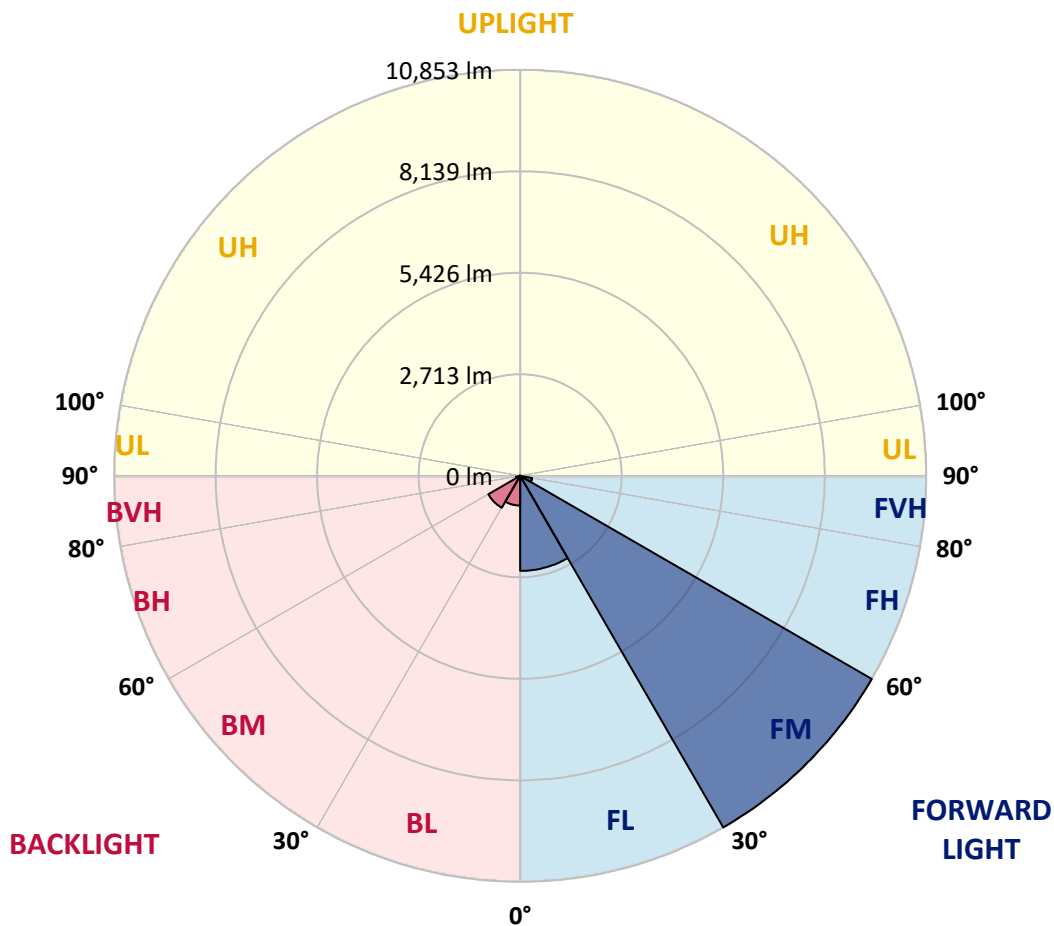
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2540.7	16.3			
FM (30°-60°)	10852.6	69.4			
FH (60°-80°)	323.1	2.1			G0/660
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	794.8	5.1	B2/1000		
BM (30°-60°)	984.4	6.3	B1/1000		
BH (60°-80°)	114.8	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°	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8
2.5°	5469.6	5344.3	5355.7	5273.7	5225.8	5148.4	5043.6	5023.1	4909.2	4754.3	4597.1
5°	5961.7	5932.0	5970.8	5852.3	5856.9	5729.3	5483.3	5487.8	5225.8	4973.0	4729.2
7.5°	5993.6	5925.2	5963.9	6068.7	6130.2	6107.5	5968.5	5847.8	5599.4	5228.1	4872.8
10°	5367.1	5496.9	5537.9	5711.1	5957.1	6216.8	6200.9	6207.7	6000.4	5515.2	4995.8
12.5°	4991.2	4904.6	5043.6	5148.4	5519.7	6023.2	6253.2	6303.4	6319.3	5793.1	5118.8
15°	4820.4	4820.4	4843.1	4872.8	5141.6	5606.3	6075.6	6221.4	6565.3	6157.6	5312.4
17.5°	4927.4	4922.9	4954.8	4893.3	4993.5	5351.1	5911.5	6077.8	6841.0	6515.2	5465.0
20°	5253.2	5269.1	5248.6	5070.9	5077.8	5346.6	5729.3	5991.3	7027.8	6825.0	5667.8
22.5°	5706.5	5715.6	5599.4	5405.8	5348.9	5481.0	5834.1	6034.6	7178.1	7196.4	5729.3
25°	6230.5	6194.0	6171.2	5897.9	5724.7	5838.6	6071.0	6187.2	7271.5	7515.3	5904.7
27.5°	6957.2	6884.3	6745.3	6501.6	6374.0	6212.2	6378.5	6569.9	7538.1	7961.8	6096.1
30°	8030.1	7966.3	7695.3	7380.9	7046.0	6886.5	6938.9	7043.7	8018.7	8478.9	6348.9
32.5°	9645.3	9510.9	9119.0	8519.9	8064.3	7624.6	7611.0	7722.6	8449.3	9194.2	6649.6
35°	11424.4	11383.4	10807.1	10189.7	9308.1	8629.3	8640.6	8699.9	9273.9	10132.8	7043.7
37.5°	12606.7	12832.3	12465.5	11802.6	11062.2	10091.8	9845.7	9866.2	10406.1	11244.5	7754.5
40°	13520.2	13328.9	13372.2	13217.2	12711.5	12050.9	11506.4	11399.4	11716.0	12474.6	8460.7
42.5°	13121.6	13130.7	13397.2	13764.0	13889.3	13841.4	13285.6	13082.8	12836.8	13481.5	9132.7
45°	11996.2	12230.9	12577.1	13547.6	14399.6	15199.2	15089.8	14752.7	13611.4	14278.8	9520.0
47.5°	10201.1	10192.0	10759.2	12021.3	13914.3	15786.9	16283.5	16046.6	14160.4	14190.0	9440.2
48°	9538.2	9702.2	10287.7	11773.0	13606.8	15700.3	16390.6	16092.1	14067.0	14071.5	9371.9
50°	7050.6	7021.0	7749.9	9572.4	12153.4	14752.7	15939.5	16171.9	14064.7	13472.4	8893.5
52.5°	3724.6	3852.2	4383.0	6018.6	8592.8	12073.7	14060.1	14422.3	13568.1	12492.8	8205.5
55°	1583.2	1430.6	1838.4	2717.7	4834.0	8066.6	10315.0	11121.4	11472.3	11055.4	7178.1
57.5°	565.0	617.4	710.8	1022.8	2032.0	4414.9	6150.7	6777.2	7948.1	8112.1	4891.0
60°	362.2	369.0	398.7	469.3	763.1	1701.7	2918.2	3417.1	3947.9	4075.4	2282.6
62.5°	280.2	282.5	296.1	307.5	362.2	660.6	1095.7	1298.5	1348.6	1159.5	599.1
65°	234.6	236.9	241.5	241.5	257.4	309.8	382.7	421.4	410.0	405.5	339.4
67.5°	180.0	184.5	193.6	193.6	202.7	189.1	211.9	225.5	255.1	309.8	289.3
70°	141.2	143.5	150.4	154.9	154.9	136.7	152.6	166.3	186.8	230.1	227.8
72.5°	109.3	113.9	118.5	118.5	111.6	93.4	109.3	120.7	134.4	159.5	154.9
75°	84.3	84.3	86.6	70.6	54.7	47.8	66.1	79.7	100.2	104.8	86.6
77.5°	22.8	25.1	22.8	20.5	22.8	34.2	43.3	50.1	63.8	63.8	57.0
80°	0.0	2.3	6.8	13.7	22.8	31.9	38.7	43.3	50.1	54.7	52.4
82.5°	0.0	2.3	6.8	13.7	20.5	25.1	34.2	36.4	41.0	47.8	47.8
85°	0.0	2.3	4.6	9.1	13.7	15.9	15.9	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°	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8	4512.8
2.5°	4535.6	4465.0	4357.9	4189.3	4027.6	3922.8	3822.6	3710.9	3649.4	3644.9	3610.7
5°	4590.3	4430.8	4175.7	3886.4	3576.5	3310.0	3041.2	2865.8	2708.6	2622.0	2606.1
7.5°	4619.9	4412.6	4000.3	3515.0	2986.5	2551.4	2250.7	2029.7	1943.2	1879.4	1877.1
10°	4681.4	4380.7	3738.3	3023.0	2369.2	1929.5	1722.2	1622.0	1574.1	1555.9	1528.6
12.5°	4727.0	4321.5	3469.5	2517.2	1872.6	1599.2	1508.1	1485.3	1487.6	1496.7	1485.3
15°	4790.7	4269.1	3107.3	2066.2	1571.9	1439.7	1439.7	1444.3	1476.2	1480.7	1478.5
17.5°	4786.2	4166.6	2733.7	1701.7	1389.6	1371.4	1378.2	1421.5	1442.0	1448.8	1432.9
20°	4840.9	4070.9	2348.7	1453.4	1287.1	1314.4	1360.0	1371.4	1396.4	1401.0	1382.8
22.5°	4824.9	3831.7	1991.0	1257.5	1209.6	1262.0	1307.6	1321.3	1314.4	1300.8	1298.5
25°	4795.3	3626.7	1663.0	1127.6	1152.7	1209.6	1252.9	1227.9	1214.2	1216.5	1218.8
27.5°	4742.9	3367.0	1391.9	1036.5	1075.2	1159.5	1157.2	1148.1	1161.8	1150.4	1161.8
30°	4733.8	3107.3	1168.6	954.5	1018.3	1079.8	1084.4	1100.3	1116.2	1095.7	1116.2
32.5°	4747.5	2822.5	1009.2	904.4	984.1	986.4	1036.5	1052.5	1041.1	995.5	1000.1
35°	4852.2	2603.8	893.0	877.0	929.4	931.7	979.6	959.1	908.9	881.6	897.6
37.5°	5073.2	2421.6	838.3	852.0	856.5	886.2	888.4	847.4	852.0	849.7	858.8
40°	5355.7	2282.6	799.6	829.2	824.7	845.2	763.1	785.9	806.4	813.3	817.8
42.5°	5549.3	2182.4	774.5	792.8	783.6	747.2	701.6	724.4	740.4	765.4	770.0
45°	5635.9	2102.6	744.9	729.0	729.0	662.9	644.7	649.2	685.7	713.0	708.5
47.5°	5494.7	2025.2	692.5	644.7	660.6	606.0	585.5	585.5	624.2	658.4	651.5
48°	5440.0	1993.3	694.8	626.5	637.9	596.8	576.3	571.8	615.1	647.0	647.0
50°	5168.9	1874.8	635.6	576.3	553.6	549.0	535.3	539.9	567.2	596.8	596.8
52.5°	4640.4	1619.7	537.6	494.3	453.3	480.7	487.5	478.4	492.1	519.4	517.1
55°	3872.7	1243.8	430.6	410.0	378.2	407.8	421.4	410.0	396.4	416.9	416.9
57.5°	2480.8	669.7	344.0	348.5	316.6	346.3	357.7	330.3	305.3	321.2	318.9
60°	1118.5	400.9	282.5	275.6	255.1	289.3	307.5	275.6	241.5	252.9	264.3
62.5°	419.2	284.8	214.1	209.6	205.0	236.9	246.0	221.0	186.8	193.6	195.9
65°	307.5	250.6	170.9	154.9	164.0	186.8	182.2	157.2	134.4	134.4	139.0
67.5°	262.0	218.7	139.0	120.7	120.7	123.0	113.9	100.2	93.4	98.0	102.5
70°	205.0	173.1	109.3	93.4	84.3	75.2	66.1	63.8	57.0	63.8	61.5
72.5°	132.1	116.2	84.3	70.6	63.8	52.4	43.3	41.0	34.2	31.9	31.9
75°	70.6	70.6	66.1	57.0	50.1	41.0	34.2	27.3	18.2	13.7	13.7
77.5°	50.1	54.7	59.2	54.7	45.6	34.2	27.3	18.2	9.1	4.6	4.6
80°	47.8	54.7	59.2	52.4	45.6	34.2	25.1	13.7	6.8	2.3	2.3
82.5°	43.3	50.1	54.7	47.8	41.0	29.6	22.8	13.7	6.8	2.3	2.3
85°	9.1	11.4	13.7	13.7	15.9	20.5	15.9	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)