

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: P456950

Luminaire Tested: **GALN-SA8B-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34285 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

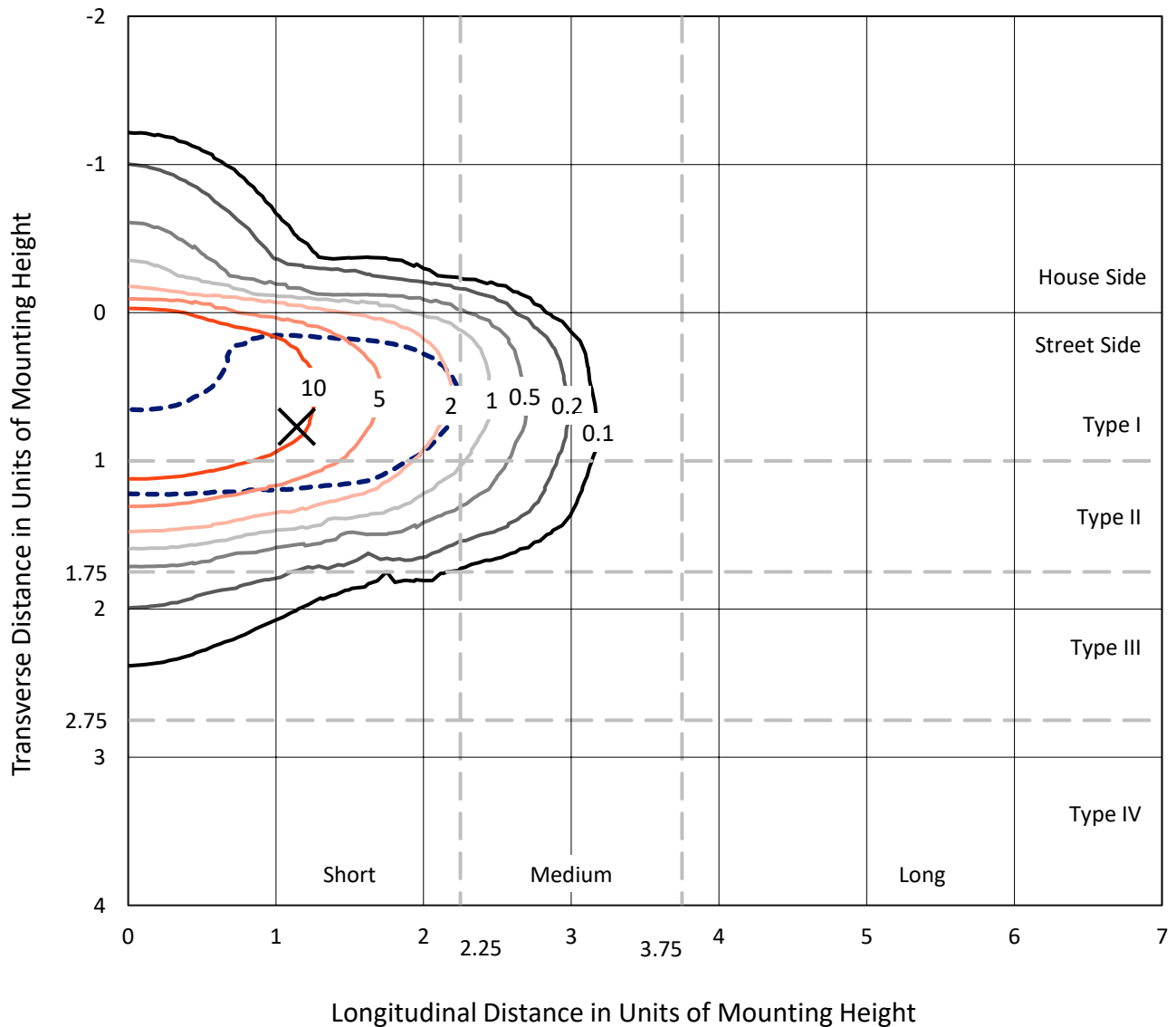
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

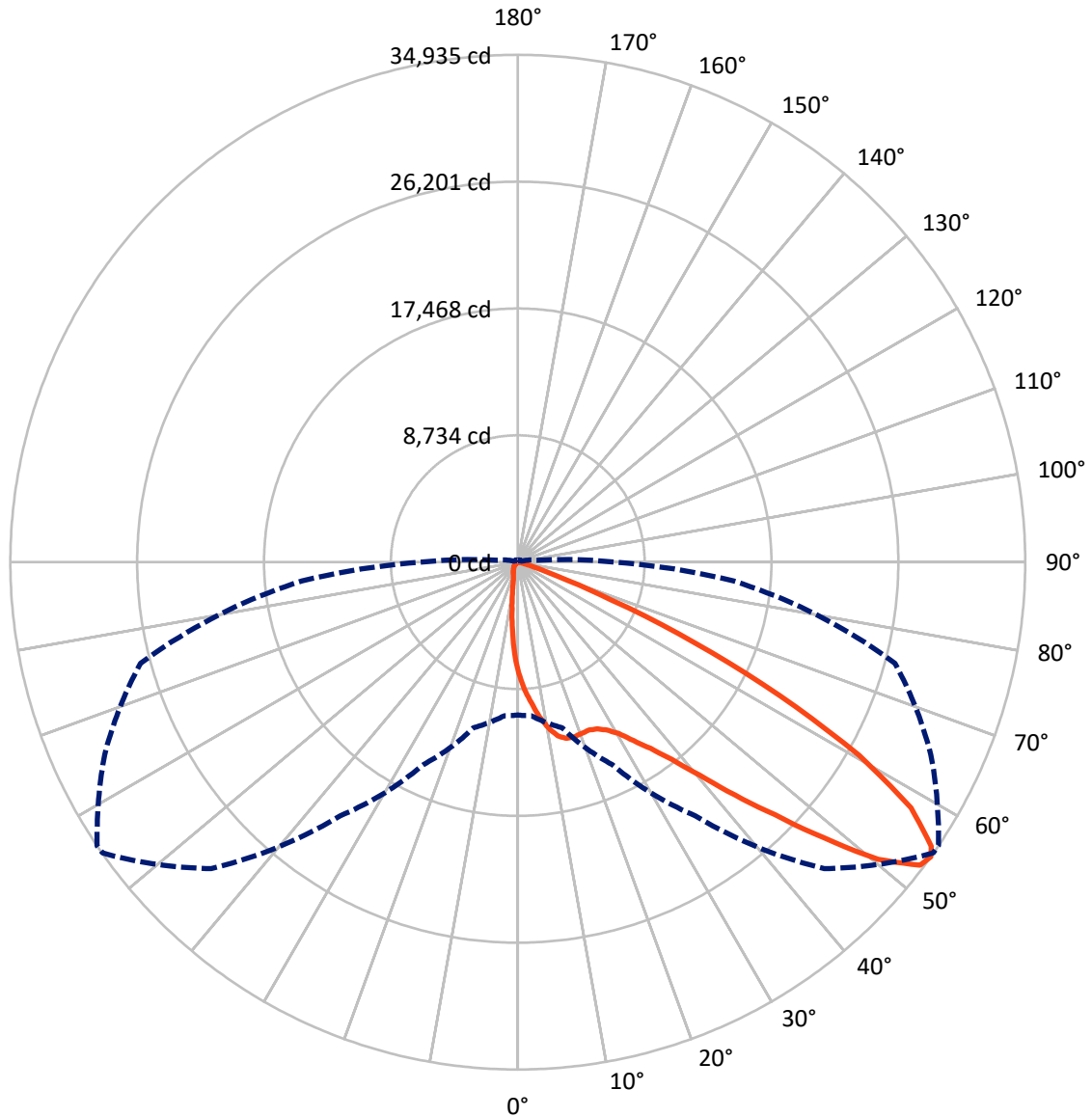
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1621.3	0.0	1621.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	32663.7	0.0	32663.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	34285.0	0.0	34285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.1	2.0
10°-20°	1819.6	5.3
20°-30°	3151.4	9.2
30°-40°	5439.8	15.9
40°-50°	9258.8	27.0
50°-60°	9162.7	26.7
60°-70°	4182.0	12.2
70°-80°	537.1	1.6
80°-90°	60.5	0.2
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°	34285.0	100.0
0°-180°	34285.0	100.0

Coefficient of Utilization



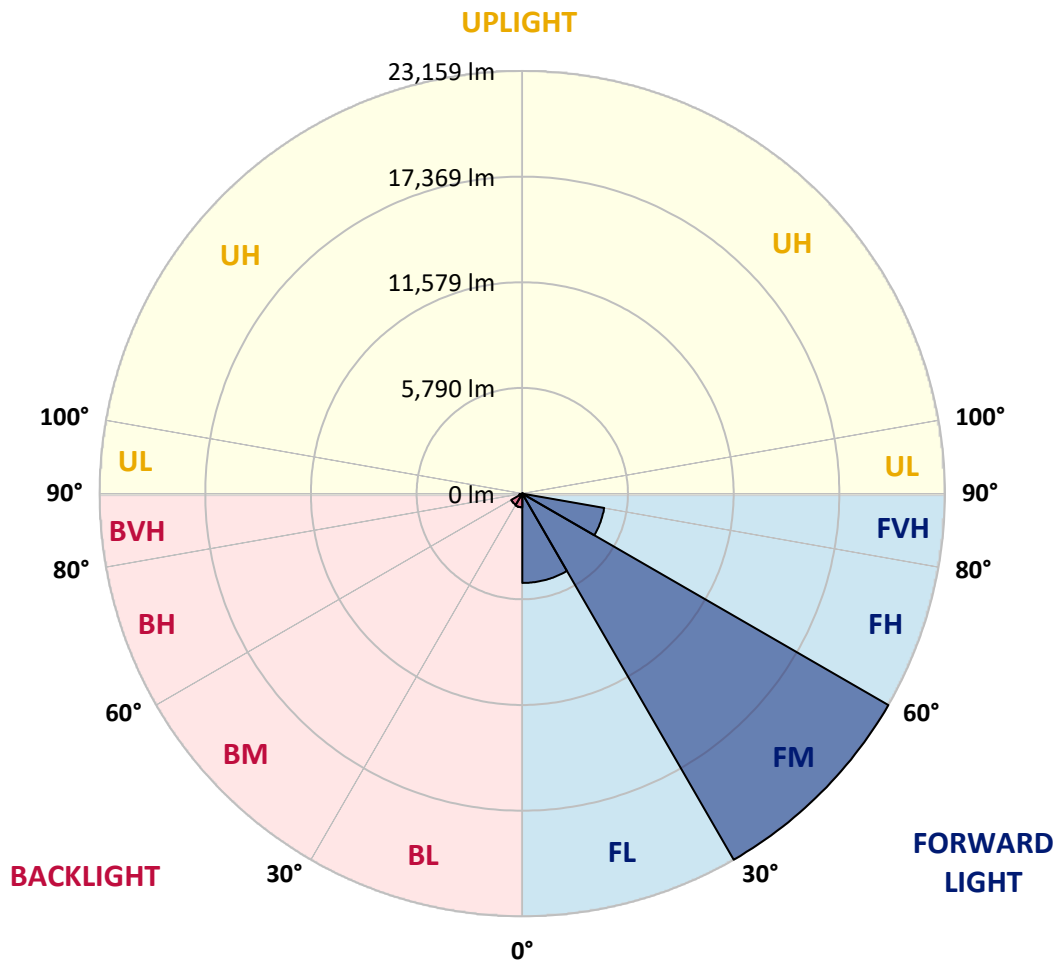
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4894.3	14.3			
FM	(30°-60°)	23158.6	67.5			
FH	(60°-80°)	4556.8	13.3			G2/5000
FVH	(80°-90°)	54.0	0.2			G1/100
BL	(0°-30°)	749.8	2.2	B2/1000		
BM	(30°-60°)	702.6	2.0	B1/1000		
BH	(60°-80°)	162.3	0.5	B1/500		G1/500
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1
2.5°	9680.5	9613.4	9520.8	9449.1	9280.3	9037.4	8780.6	8780.6	8533.1	8188.5	7836.9
5°	11165.5	11121.5	11031.3	10846.3	10656.6	10316.6	9800.7	9710.5	9268.7	8644.2	7987.2
7.5°	11769.2	11790.0	11794.7	11746.1	11655.9	11320.5	10809.3	10746.8	10041.3	9203.9	8183.9
10°	11190.9	11292.7	11392.2	11593.4	11877.9	11958.9	11669.7	11605.0	10911.0	9770.7	8396.7
12.5°	10330.4	10386.0	10441.5	10758.4	11329.7	11984.3	12287.4	12285.0	11697.5	10335.1	8667.3
15°	9930.3	9978.8	9983.5	10124.6	10619.6	11572.6	12551.1	12585.7	12465.5	11031.3	8958.8
17.5°	10013.5	10052.9	10020.5	10055.2	10314.3	11119.2	12521.0	12636.6	13087.7	11699.8	9222.5
20°	10557.1	10633.5	10508.6	10411.4	10490.1	10998.9	12419.2	12581.1	13527.2	12352.1	9463.0
22.5°	11533.3	11574.9	11417.6	11151.6	11012.8	11251.1	12391.4	12551.1	13901.9	12886.5	9601.8
25°	12618.1	12604.3	12430.8	12132.4	11840.9	11760.0	12574.2	12717.6	14211.9	13367.6	9643.4
27.5°	13703.0	13744.6	13453.2	13083.1	12733.8	12523.3	12983.6	13090.0	14561.2	13915.8	9694.3
30°	14963.6	14896.6	14609.7	14186.4	13786.3	13492.5	13642.8	13672.9	15042.3	14642.1	9828.5
32.5°	16603.7	16418.6	16097.1	15356.9	15070.1	14572.7	14609.7	14646.7	15627.5	15361.5	9990.4
35°	18828.9	18819.6	18190.5	17193.5	16494.9	15877.3	15715.4	15745.5	16513.4	16430.2	10348.9
37.5°	21507.5	21544.5	20827.4	19823.5	18537.4	17556.7	17223.6	17228.2	17859.7	17905.9	10894.8
40°	23688.8	23785.9	23358.0	22680.3	21410.3	19876.7	19317.0	19266.1	19751.8	19694.0	11674.4
42.5°	24627.9	24718.1	24877.7	25113.7	24415.1	23149.8	21829.0	21898.4	22046.5	21641.7	12548.7
45°	24167.6	24311.0	24937.9	26395.1	27052.1	26626.5	25051.2	24808.3	24181.5	23758.2	13427.7
47.5°	22250.0	22599.3	23647.1	26073.6	28372.9	29811.6	28687.5	28365.9	26318.8	25303.3	13987.5
50°	19097.2	19118.0	20577.6	23679.5	27688.2	31821.7	32400.0	32159.5	28310.4	26170.8	14269.7
52.5°	13844.1	14299.8	15636.8	19229.1	24722.7	31516.4	34766.4	34666.9	30364.5	26614.9	14676.8
54°	10524.7	10612.6	11801.6	15366.1	21315.5	29839.4	34912.1	34935.2	31384.6	26883.2	14917.4
55°	8628.0	8417.5	9666.6	13090.0	18990.8	28356.7	34435.6	34546.6	31842.6	27022.0	15095.5
57.5°	4089.6	4091.9	5047.3	6904.7	11894.1	22018.7	31523.4	31916.6	31893.5	27260.3	15643.7
60°	2070.3	2084.1	2294.6	3187.5	5875.4	14637.5	26064.4	27001.2	29439.2	27294.9	15824.1
62.5°	1448.0	1431.8	1397.1	1533.6	2472.7	7439.0	19404.9	20219.1	25011.9	25974.2	15250.5
65°	1239.8	1205.1	1108.0	1087.2	1249.1	2963.1	12086.1	13413.8	19097.2	22490.6	13617.4
67.5°	1059.4	1045.5	957.6	904.4	883.6	1290.7	6236.2	6934.8	13053.0	16166.5	10314.3
70°	899.8	892.9	839.7	772.6	714.8	772.6	2313.1	2866.0	7274.8	8704.3	4866.8
72.5°	730.9	737.9	747.1	661.6	601.4	548.2	987.7	1149.6	3044.1	3111.2	1702.5
75°	640.7	633.8	633.8	576.0	501.9	407.1	543.6	585.2	932.2	865.1	395.5
77.5°	451.1	434.9	508.9	474.2	418.7	289.1	310.0	328.5	386.3	330.8	185.1
80°	312.3	312.3	326.2	425.6	377.0	210.5	189.7	203.6	229.0	196.6	106.4
82.5°	175.8	180.4	212.8	226.7	219.7	141.1	124.9	127.2	152.7	134.2	67.1
85°	20.8	34.7	122.6	120.3	90.2	62.5	69.4	71.7	94.8	83.3	39.3
87.5°	2.3	4.6	25.4	32.4	23.1	25.4	25.4	25.4	32.4	37.0	27.8
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°	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1
2.5°	7647.2	7471.4	7052.7	6567.0	6257.0	5752.8	5327.1	5019.5	4943.2	4795.1	4839.1
5°	7638.0	7272.5	6418.9	5516.8	4554.6	3837.5	3303.2	2882.2	2697.1	2574.5	2488.9
7.5°	7642.6	7071.2	5701.9	4265.4	3115.8	2412.6	1917.6	1660.8	1489.7	1417.9	1427.2
10°	7656.5	6844.6	4869.1	3159.7	2102.6	1559.1	1256.0	1133.4	1075.6	1066.4	1064.0
12.5°	7688.8	6597.1	4073.4	2345.5	1471.2	1133.4	1017.8	976.1	957.6	957.6	950.7
15°	7723.5	6324.1	3411.9	1744.1	1133.4	973.8	920.6	899.8	888.2	888.2	885.9
17.5°	7723.5	6009.5	2794.3	1353.2	976.1	895.2	853.5	825.8	816.5	816.5	814.2
20°	7675.0	5644.0	2246.1	1089.5	885.9	821.2	779.5	749.5	737.9	733.3	730.9
22.5°	7506.1	5156.0	1788.1	936.8	811.9	756.4	703.2	668.5	659.2	654.6	656.9
25°	7205.4	4605.4	1415.6	823.5	744.8	677.7	631.5	606.0	596.8	596.8	599.1
27.5°	6895.4	4029.5	1121.9	737.9	663.9	603.7	566.7	550.5	548.2	555.2	557.5
30°	6608.6	3451.2	909.1	668.5	592.2	541.3	515.8	511.2	511.2	513.5	515.8
32.5°	6289.4	2944.6	761.0	608.4	534.3	490.4	476.5	476.5	481.1	481.1	485.8
35°	6088.2	2509.7	668.5	550.5	490.4	453.4	444.1	446.4	453.4	462.6	467.3
37.5°	5979.4	2162.8	608.4	504.3	448.7	423.3	414.1	418.7	434.9	451.1	453.4
40°	5988.7	1901.4	559.8	464.9	416.4	388.6	381.7	395.5	411.7	427.9	430.2
42.5°	6090.5	1707.1	513.5	418.7	388.6	349.3	347.0	360.8	367.8	384.0	386.3
45°	6210.8	1566.0	464.9	370.1	337.7	303.0	305.3	316.9	326.2	351.6	356.2
47.5°	6247.8	1468.8	409.4	314.6	277.6	266.0	268.3	275.3	293.8	316.9	319.2
50°	6289.4	1408.7	356.2	266.0	235.9	233.6	235.9	240.6	252.1	261.4	259.1
52.5°	6467.5	1406.4	312.3	231.3	201.2	205.9	208.2	205.9	196.6	182.7	178.1
54°	6634.1	1413.3	291.5	215.1	185.1	192.0	189.7	178.1	155.0	141.1	134.2
55°	6768.2	1420.3	279.9	203.6	175.8	178.1	180.4	157.3	127.2	113.3	108.7
57.5°	7031.9	1404.1	252.1	178.1	155.0	145.7	143.4	104.1	69.4	60.1	55.5
60°	6900.1	1267.6	229.0	152.7	131.8	118.0	97.2	57.8	34.7	25.4	25.4
62.5°	6381.9	1075.6	203.6	124.9	108.7	90.2	50.9	32.4	16.2	9.3	6.9
65°	5708.8	904.4	182.7	99.5	85.6	57.8	27.8	20.8	6.9	0.0	0.0
67.5°	4244.6	670.8	155.0	78.6	64.8	37.0	18.5	11.6	2.3	0.0	0.0
70°	1966.2	409.4	131.8	60.1	46.3	27.8	13.9	6.9	0.0	0.0	0.0
72.5°	564.4	256.8	108.7	43.9	32.4	23.1	11.6	4.6	2.3	0.0	0.0
75°	196.6	205.9	81.0	32.4	25.4	16.2	9.3	4.6	2.3	0.0	0.0
77.5°	118.0	166.5	50.9	27.8	20.8	13.9	9.3	4.6	2.3	2.3	0.0
80°	67.1	111.0	32.4	23.1	18.5	11.6	6.9	4.6	2.3	2.3	0.0
82.5°	37.0	53.2	25.4	20.8	16.2	11.6	6.9	4.6	2.3	2.3	2.3
85°	30.1	27.8	20.8	18.5	13.9	9.3	6.9	2.3	0.0	0.0	0.0
87.5°	23.1	18.5	18.5	18.5	13.9	9.3	6.9	2.3	0.0	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)