

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: P301906

Luminaire Tested: **GLNA-AF-08-LED-E1-SL4-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-SL4-7050-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28420 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 334
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: 25 FT

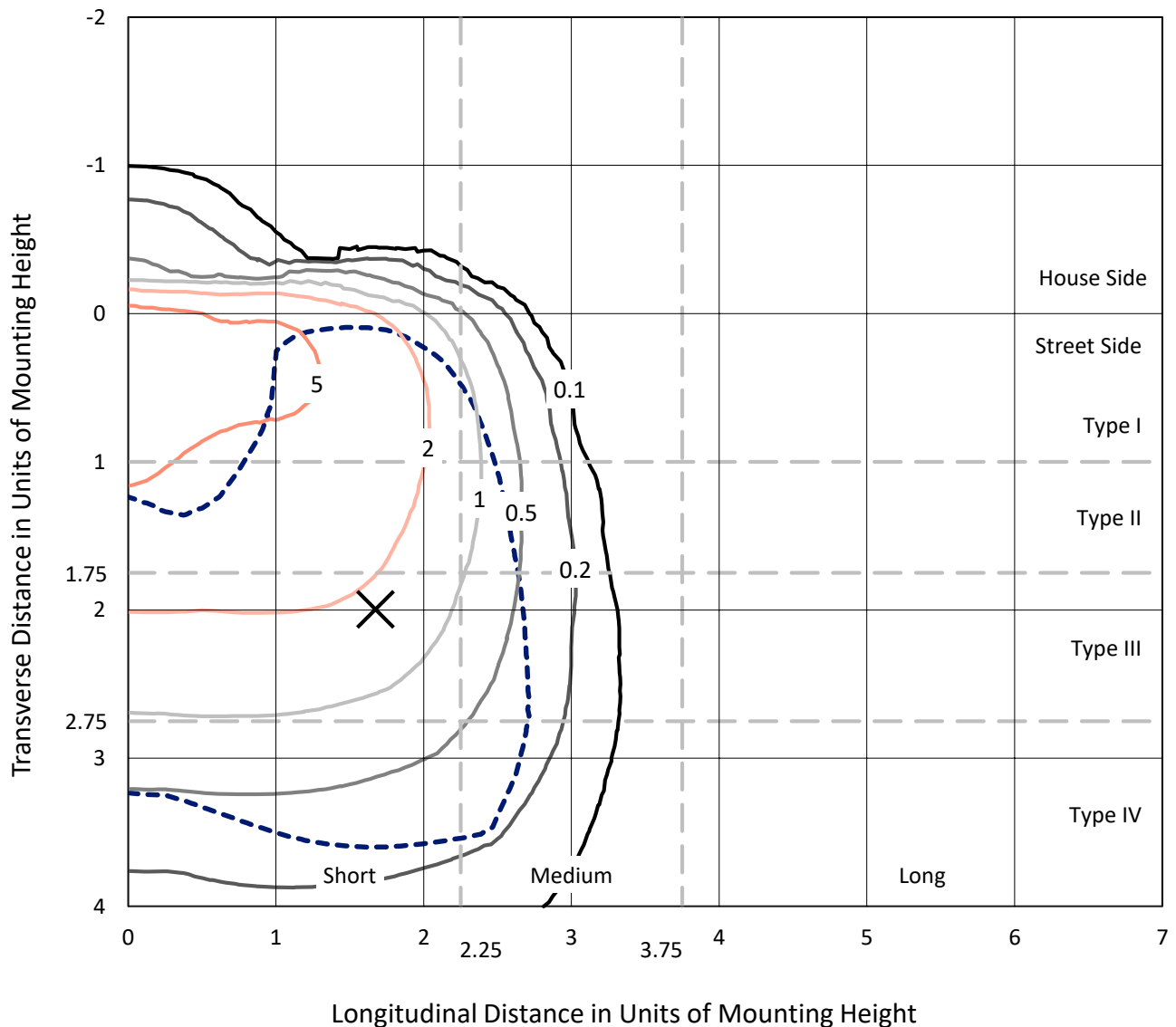


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

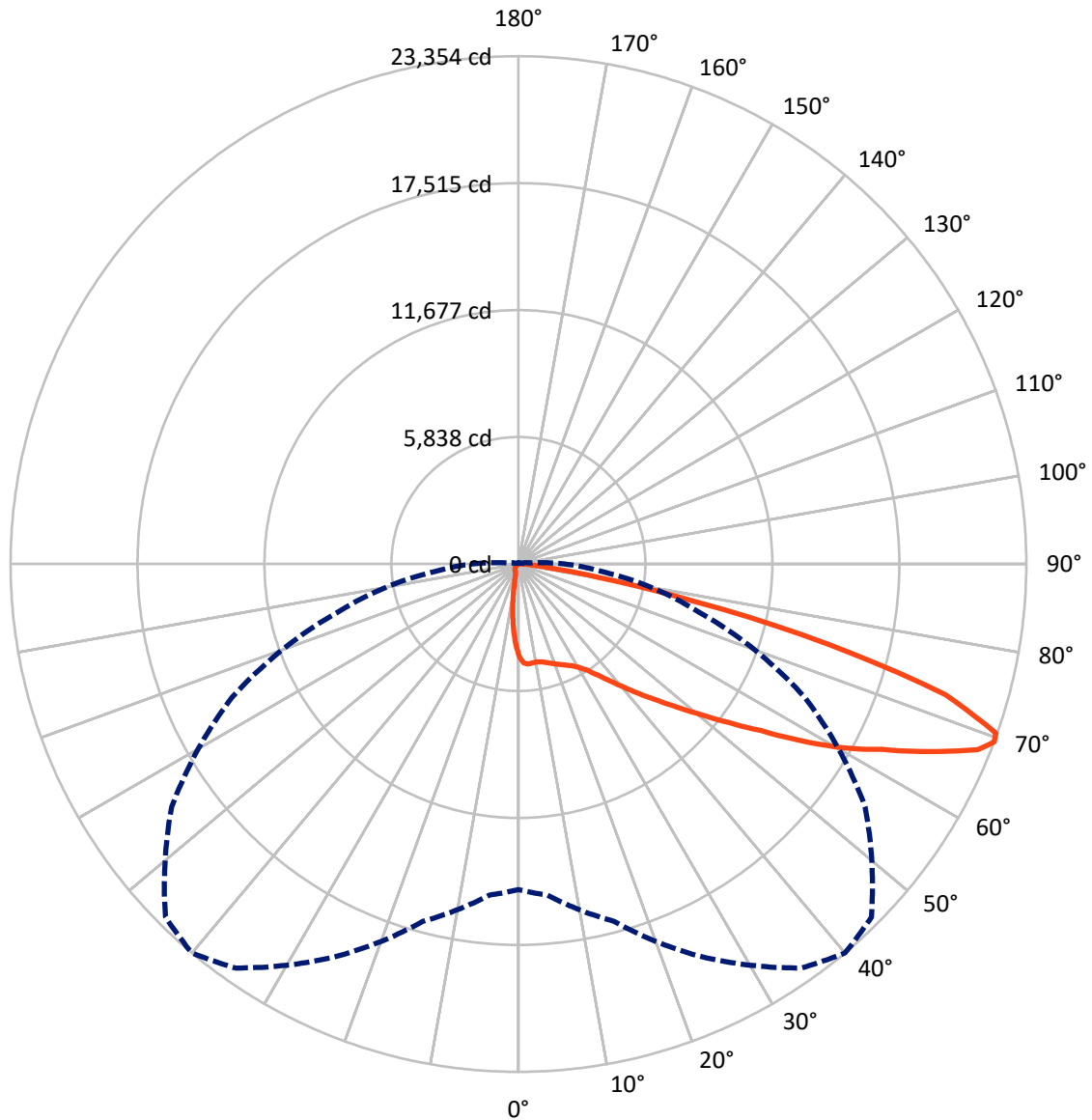


Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1662.7	0.0	1662.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	26757.3	0.0	26757.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	28420.0	0.0	28420.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.3	1.2
10°-20°	846.6	3.0
20°-30°	1426.0	5.0
30°-40°	2334.4	8.2
40°-50°	4042.0	14.2
50°-60°	6366.6	22.4
60°-70°	8314.5	29.3
70°-80°	4282.3	15.1
80°-90°	463.2	1.6
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°	28420.0	100.0
0°-180°	28420.0	100.0



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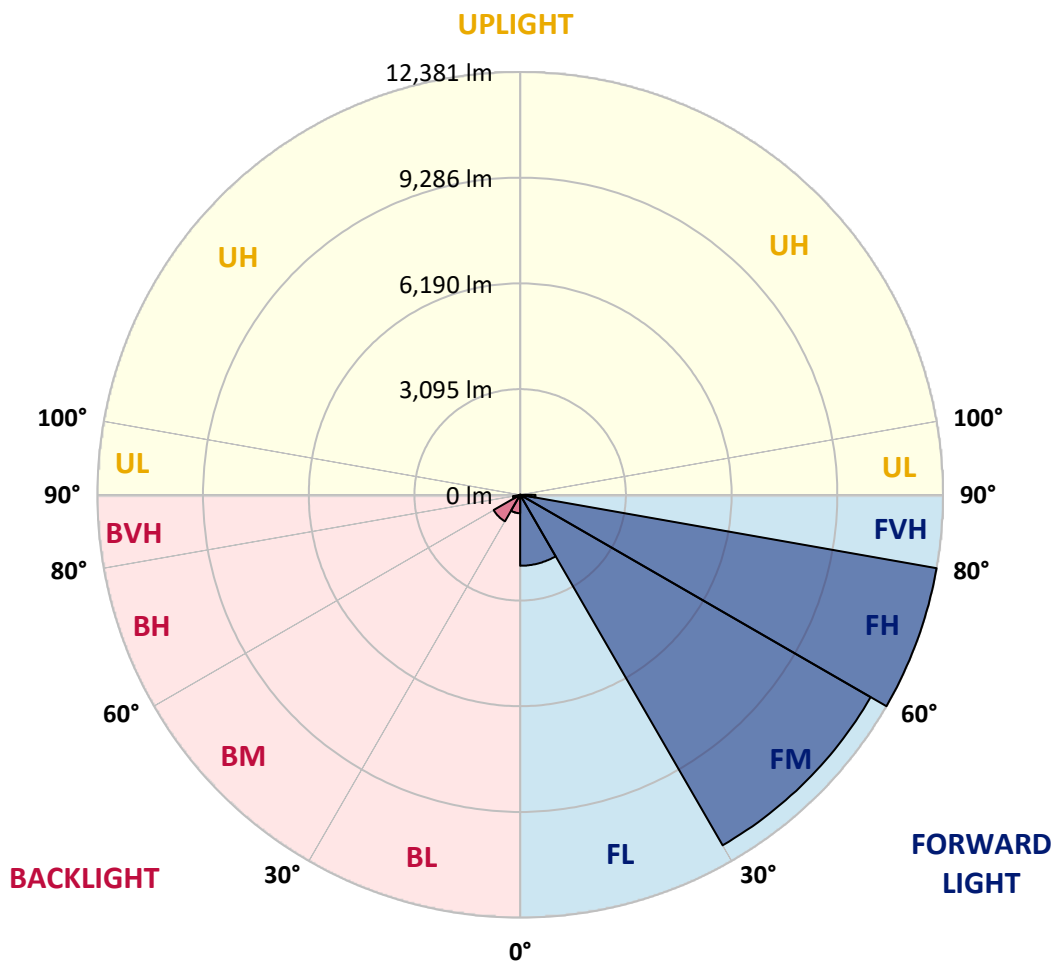
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2078.3	7.3			
FM	(30°-60°)	11849.3	41.7			
FH	(60°-80°)	12380.9	43.6			G5
FVH	(80°-90°)	448.7	1.6			G3/500
BL	(0°-30°)	538.6	1.9	B2/1000		
BM	(30°-60°)	893.7	3.1	B1/1000		
BH	(60°-80°)	215.9	0.8	B1/500		G1/500
BVH	(80°-90°)	14.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1
2.5°	4662.2	4636.9	4621.6	4601.3	4576.0	4554.0	4545.5	4482.9	4423.7	4342.5	4249.5
5°	4748.5	4740.1	4713.0	4685.9	4655.5	4621.6	4603.0	4528.6	4444.0	4325.6	4163.2
7.5°	4757.0	4746.8	4713.0	4675.8	4633.5	4592.9	4560.7	4486.3	4408.5	4288.4	4090.5
10°	4743.4	4731.6	4706.2	4665.6	4613.2	4574.3	4542.1	4471.1	4405.1	4296.8	4076.9
12.5°	4728.2	4716.4	4704.5	4684.2	4638.6	4611.5	4584.4	4516.8	4457.6	4366.2	4126.0
15°	4743.4	4736.7	4750.2	4741.8	4716.4	4692.7	4665.6	4604.7	4550.6	4474.5	4215.6
17.5°	4807.7	4807.7	4850.0	4855.1	4831.4	4797.6	4758.7	4697.8	4652.1	4587.8	4322.2
20°	4958.3	4953.2	5007.3	5017.5	4960.0	4907.5	4850.0	4775.6	4740.1	4699.5	4427.1
22.5°	5217.1	5193.4	5225.6	5215.4	5102.1	5020.9	4949.8	4858.5	4839.9	4821.3	4543.8
25°	5553.8	5540.2	5562.2	5462.4	5262.8	5152.8	5068.2	4965.1	4965.1	4983.7	4675.8
27.5°	6042.6	5991.9	5917.5	5741.5	5442.1	5301.7	5210.3	5100.4	5129.1	5198.5	4850.0
30°	6543.4	6487.6	6316.7	6046.0	5660.3	5513.2	5406.6	5291.5	5359.2	5486.1	5083.5
32.5°	7037.3	6974.8	6732.8	6391.1	5973.3	5826.1	5722.9	5596.0	5709.4	5922.5	5425.2
35°	7516.1	7460.3	7181.1	6778.5	6389.4	6267.6	6172.9	6062.9	6208.4	6506.2	5907.3
37.5°	8054.0	7993.1	7653.1	7216.7	6895.2	6807.3	6737.9	6628.0	6881.7	7318.2	6578.9
40°	8715.5	8612.3	8153.8	7719.1	7480.6	7438.3	7390.9	7375.7	7769.8	8373.8	7473.8
42.5°	9473.4	9304.2	8678.3	8248.6	8123.4	8153.8	8142.0	8209.7	8881.3	9686.5	8563.2
45°	10231.2	10013.0	9261.9	8813.6	8830.5	8937.1	9003.1	9273.7	10273.5	11192.1	9735.6
47.5°	10874.1	10659.2	9821.8	9424.3	9627.3	9837.1	10016.4	10529.0	11704.7	12674.0	10647.4
50°	11423.8	11220.8	10415.6	10095.9	10552.6	10891.0	11181.9	11941.5	13244.1	13802.3	11286.8
52.5°	11873.8	11738.5	11031.4	10865.6	11609.9	12105.6	12531.9	13442.0	14607.6	14719.2	11784.2
55°	12312.0	12215.5	11692.8	11780.8	12851.6	13526.6	14066.2	15033.9	15781.6	15483.9	12261.2
57.5°	12816.1	12728.1	12447.3	12941.3	14484.1	15333.3	15922.0	16444.7	16815.2	16265.4	12711.2
60°	13330.4	13279.6	13286.4	14230.3	16358.4	17173.8	17498.6	17634.0	17830.2	17001.3	12736.6
62.5°	13820.9	13917.4	14245.6	15664.9	18153.3	18779.2	18943.3	19077.0	18846.9	17118.0	11767.3
65°	14651.6	14808.9	15592.1	17584.9	20127.5	20797.4	20966.6	20508.1	19007.6	15609.0	9571.5
67.5°	15057.6	15345.1	16742.5	19374.7	22042.5	22786.8	22724.2	20601.2	17057.1	11902.6	6142.5
69°	14973.0	15279.2	17008.0	19922.8	22678.5	23353.5	22956.0	19462.7	14531.4	8622.4	3770.7
70°	14638.0	14947.6	16871.0	19902.5	22759.7	23294.3	22526.3	18056.9	12286.6	6304.9	2358.2
72.5°	12224.0	12491.3	14978.0	17989.2	20966.6	20531.8	18845.2	12509.9	5986.8	1717.0	531.2
75°	7524.5	7673.4	10747.2	13552.0	15835.7	14719.2	12555.6	6223.7	1784.7	485.5	294.4
77.5°	3975.4	4043.1	5883.6	7988.1	10038.4	8306.1	6435.1	2427.5	822.2	304.5	213.2
80°	2349.7	2400.5	3168.5	3652.3	4344.2	3628.6	2573.0	1490.4	588.7	191.2	189.5
82.5°	1344.9	1377.0	2297.3	2030.0	1712.0	1461.6	1280.6	1412.5	353.6	128.6	196.2
85°	494.0	500.7	1292.4	1544.5	1018.4	605.6	636.1	1170.6	94.7	81.2	153.9
87.5°	230.1	225.0	664.8	945.6	595.5	384.0	495.7	257.1	37.2	52.4	42.3
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°	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1	4246.1
2.5°	4195.3	4132.7	4019.4	3902.7	3784.3	3692.9	3603.3	3532.2	3508.5	3464.5	3467.9
5°	4066.8	3951.7	3714.9	3474.7	3224.3	3017.9	2823.4	2666.1	2589.9	2512.1	2512.1
7.5°	3955.1	3787.6	3417.2	3026.4	2622.1	2282.1	1975.9	1745.8	1618.9	1517.4	1515.7
10°	3912.8	3686.1	3168.5	2608.6	2045.2	1581.7	1218.0	984.6	864.4	786.6	783.2
12.5°	3931.4	3650.6	2977.3	2222.9	1515.7	1016.7	705.4	554.9	504.1	480.4	480.4
15°	3985.6	3640.5	2786.2	1845.6	1070.8	636.1	468.6	428.0	424.6	424.6	424.6
17.5°	4051.5	3643.9	2589.9	1478.5	729.1	455.1	404.3	399.2	402.6	402.6	402.6
20°	4119.2	3645.5	2378.5	1138.5	514.3	395.9	380.6	378.9	382.3	382.3	384.0
22.5°	4202.1	3654.0	2167.0	850.9	424.6	373.9	362.0	362.0	363.7	363.7	362.0
25°	4296.8	3670.9	1947.1	631.0	387.4	358.6	348.5	346.8	348.5	346.8	345.1
27.5°	4415.3	3694.6	1701.8	494.0	370.5	343.4	335.0	335.0	333.3	331.6	329.9
30°	4564.1	3721.7	1426.1	419.5	353.6	329.9	321.4	319.7	318.0	314.7	314.7
32.5°	4790.8	3780.9	1153.7	380.6	335.0	311.3	304.5	304.5	301.1	297.7	296.0
35°	5139.3	3897.6	910.1	356.9	314.7	291.0	282.5	282.5	279.1	277.4	275.7
37.5°	5621.4	4075.2	707.1	335.0	294.4	269.0	260.5	258.8	255.4	252.1	250.4
40°	6262.6	4295.2	556.6	314.7	274.1	247.0	240.2	236.8	230.1	225.0	225.0
42.5°	7067.8	4545.5	451.7	292.7	250.4	226.7	221.6	216.5	204.7	199.6	197.9
45°	7910.2	4770.5	382.3	267.3	226.7	206.4	203.0	194.5	179.3	174.2	174.2
47.5°	8517.6	4823.0	336.6	243.6	204.7	184.4	182.7	167.5	153.9	150.6	148.9
50°	8896.5	4719.8	299.4	219.9	184.4	164.1	159.0	140.4	132.0	128.6	126.9
52.5°	9151.9	4535.4	269.0	199.6	165.8	145.5	133.6	120.1	113.3	110.0	110.0
55°	9356.6	4274.8	238.5	181.0	150.6	130.3	113.3	103.2	96.4	93.0	93.0
57.5°	9414.1	3921.3	208.1	165.8	135.3	115.0	96.4	89.7	81.2	79.5	79.5
60°	8996.3	3283.5	184.4	147.2	121.8	99.8	84.6	76.1	67.7	66.0	64.3
62.5°	7895.0	2540.9	162.4	130.3	106.6	86.3	72.7	62.6	55.8	55.8	55.8
65°	6022.3	1703.5	142.1	113.3	93.0	72.7	62.6	50.8	47.4	47.4	49.1
67.5°	3604.9	927.0	121.8	96.4	79.5	60.9	52.4	44.0	42.3	44.0	44.0
69°	2112.9	544.7	110.0	86.3	69.4	54.1	45.7	38.9	42.3	44.0	44.0
70°	1304.3	367.1	101.5	77.8	62.6	49.1	42.3	37.2	40.6	42.3	42.3
72.5°	363.7	189.5	81.2	60.9	50.8	40.6	33.8	33.8	38.9	40.6	40.6
75°	236.8	140.4	62.6	45.7	38.9	32.1	28.8	32.1	37.2	38.9	38.9
77.5°	196.2	115.0	50.8	37.2	32.1	30.5	27.1	28.8	33.8	35.5	35.5
80°	179.3	81.2	40.6	33.8	28.8	27.1	25.4	23.7	30.5	32.1	32.1
82.5°	170.9	64.3	35.5	30.5	27.1	23.7	22.0	23.7	27.1	28.8	30.5
85°	106.6	42.3	32.1	28.8	23.7	22.0	22.0	22.0	25.4	27.1	27.1
87.5°	38.9	33.8	28.8	23.7	20.3	20.3	20.3	20.3	22.0	25.4	25.4
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)