

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: P299995

Luminaire Tested: **GLNA-AF-09-LED-E1-SL3-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-09-LED-E1-SL3-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32271 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 374
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

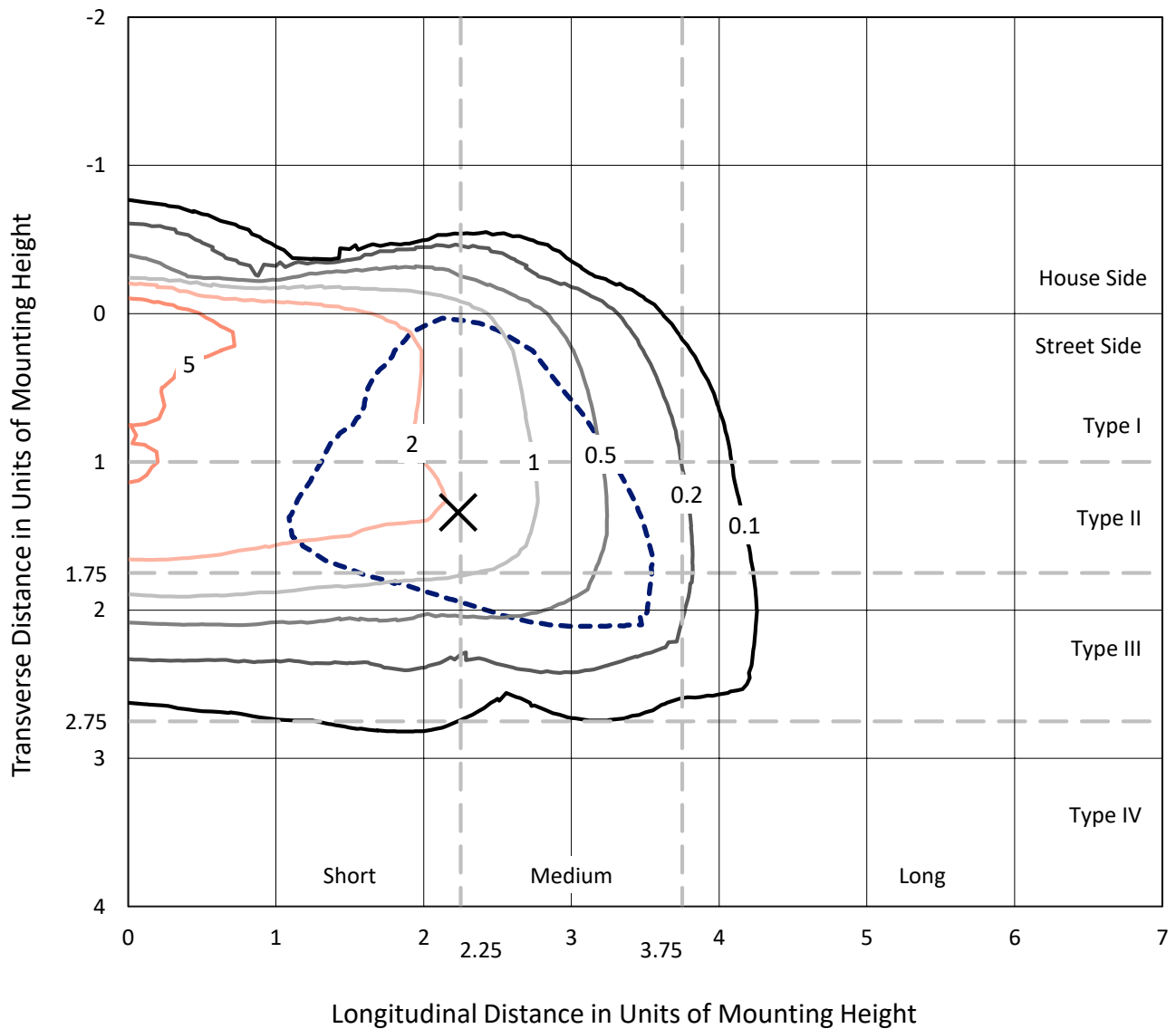


REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-09-LED-E1-SL3-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

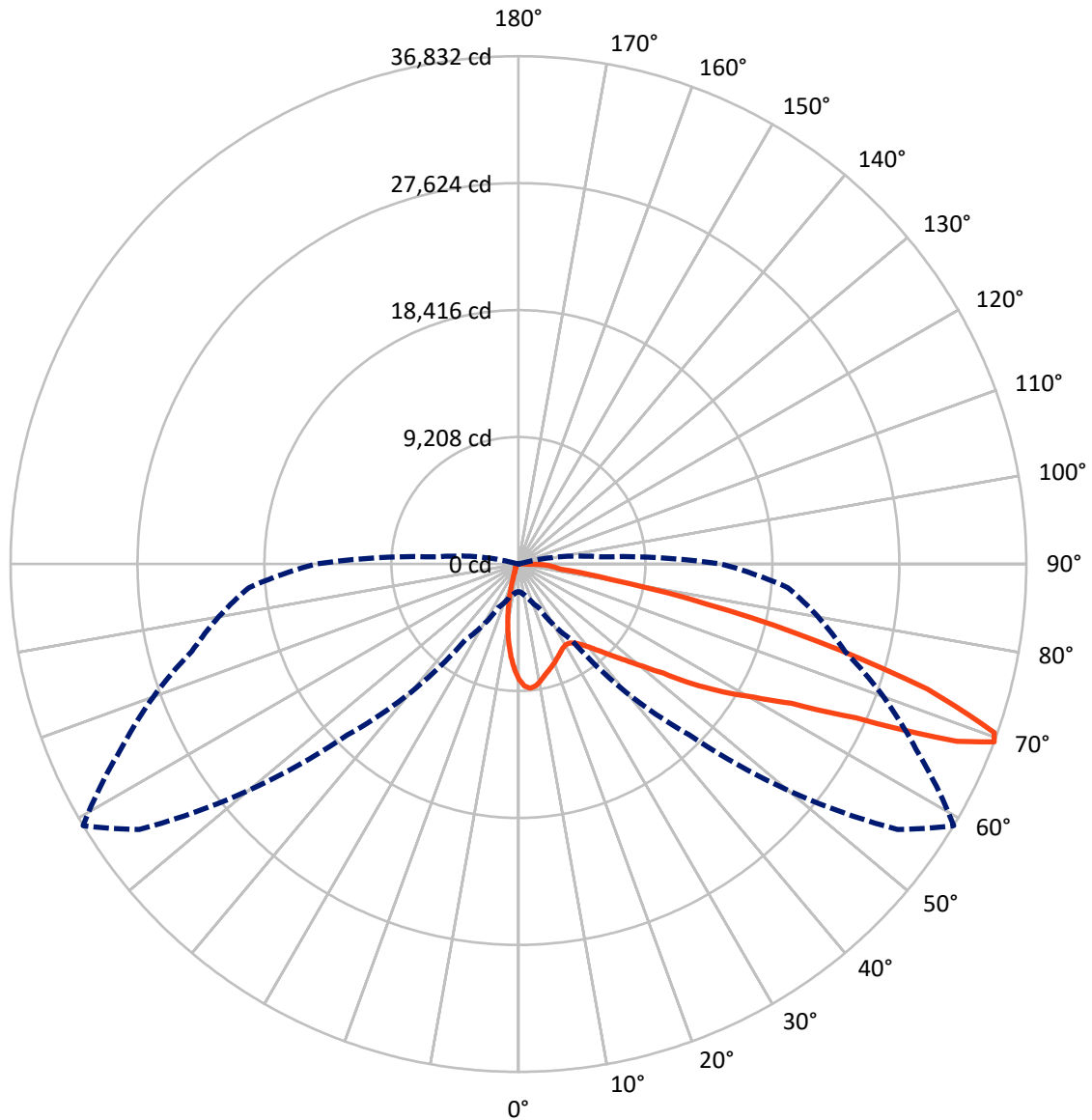


Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-09-LED-E1-SL3-7030-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2628.0	0.0	2628.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	29643.0	0.0	29643.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	32271.0	0.0	32271.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	681.8	2.1
10°-20°	1408.8	4.4
20°-30°	1895.7	5.9
30°-40°	2752.5	8.5
40°-50°	4583.0	14.2
50°-60°	7149.5	22.2
60°-70°	8847.0	27.4
70°-80°	4483.6	13.9
80°-90°	469.1	1.5
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°	32271.0	100.0
0°-180°	32271.0	100.0



REPORT NUMBER: P299995

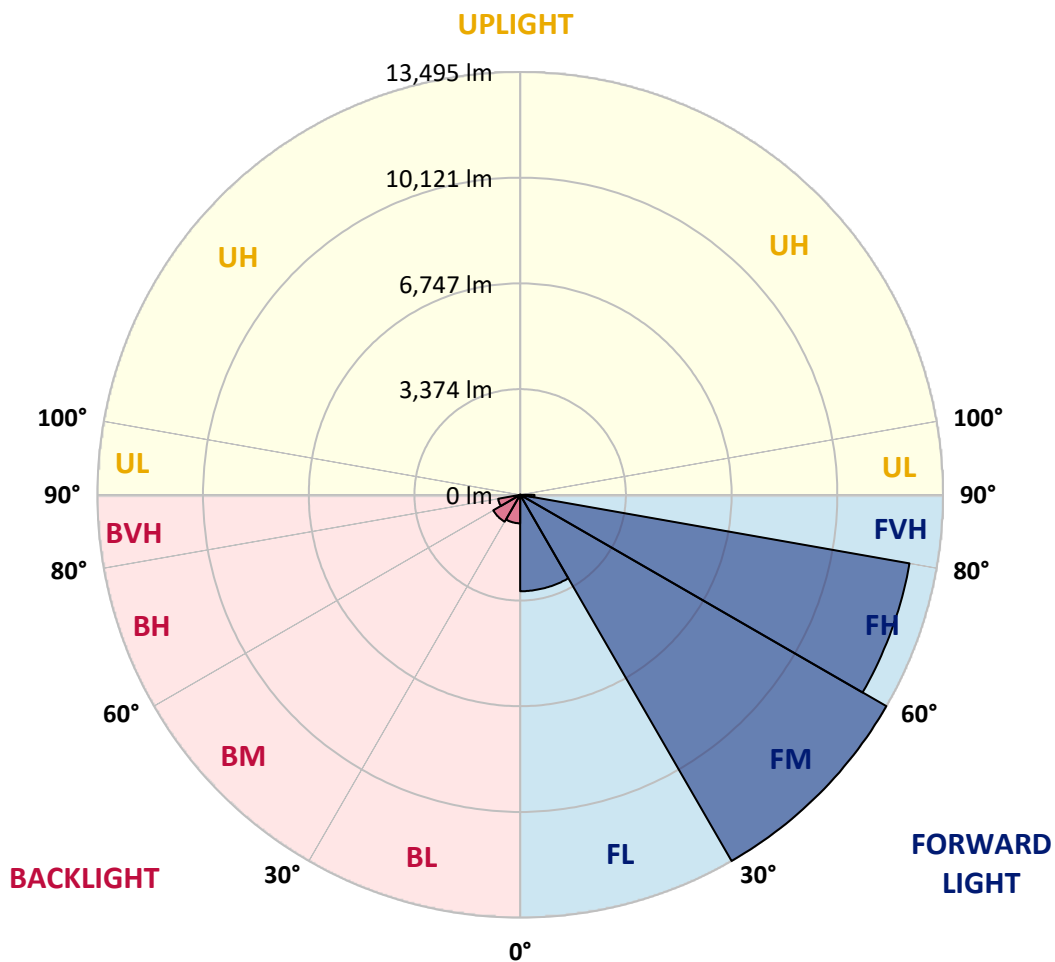
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3076.7	9.5			
FM (30°-60°)	13494.8	41.8			
FH (60°-80°)	12616.8	39.1			G5
FVH (80°-90°)	454.7	1.4			G3/500
BL (0°-30°)	909.6	2.8	B2/1000		
BM (30°-60°)	990.2	3.1	B1/1000		
BH (60°-80°)	713.7	2.2	B2/1000		G2/1000
BVH (80°-90°)	14.4	0.0			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 III Short





REPORT NUMBER: P299995

CATALOG NUMBER: GLNA-AF-09-LED-E1-SL3-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5
2.5°	9206.2	9202.8	9162.5	9144.3	9111.1	9042.1	8934.3	8878.0	8786.8	8627.7	8414.4
5°	9122.2	9166.4	9189.6	9191.8	9215.6	9189.6	9092.9	9045.9	8920.0	8664.2	8281.3
7.5°	8553.1	8569.1	8637.1	8695.1	8808.4	8916.1	8950.9	8930.5	8855.9	8582.4	8073.0
10°	7943.7	7959.7	8040.4	8116.6	8270.2	8436.0	8611.1	8648.1	8679.1	8465.3	7872.4
12.5°	7417.7	7434.3	7516.6	7616.6	7795.7	8000.1	8271.9	8332.1	8469.1	8354.2	7711.7
15°	6965.3	6972.4	7053.1	7176.9	7390.7	7653.1	7962.0	8058.6	8268.6	8275.8	7571.3
17.5°	6580.2	6598.4	6648.1	6766.4	7000.1	7324.9	7684.6	7823.3	8069.1	8210.0	7434.3
20°	6344.8	6363.0	6361.4	6427.1	6637.1	6983.5	7407.2	7573.0	7872.4	8142.6	7312.2
22.5°	6299.5	6299.5	6252.0	6242.6	6366.9	6657.0	7118.8	7321.1	7695.1	8113.3	7226.6
25°	6461.9	6454.2	6336.0	6239.3	6244.8	6417.7	6839.3	7080.2	7545.9	8133.2	7180.7
27.5°	6805.0	6795.6	6645.9	6461.9	6313.9	6312.2	6627.7	6886.8	7427.1	8228.3	7199.0
30°	7279.1	7275.8	7113.3	6881.3	6613.3	6366.9	6554.8	6790.1	7350.3	8399.5	7240.9
32.5°	7797.3	7791.8	7669.7	7425.5	7085.7	6613.3	6631.6	6828.8	7372.4	8627.7	7343.2
35°	8347.0	8337.6	8284.6	8071.3	7697.3	7067.5	6883.5	7036.5	7511.1	8969.1	7543.7
37.5°	8941.5	8950.9	8989.0	8784.6	8392.3	7704.5	7305.0	7408.9	7790.1	9432.7	7870.2
40°	9819.4	9817.8	9830.5	9562.0	9184.6	8483.5	7894.0	7927.1	8257.5	10047.6	8366.9
42.5°	11412.3	11301.2	10963.6	10416.1	10036.6	9374.1	8637.1	8602.3	8828.8	10808.4	9062.0
45°	13553.2	13315.6	12439.9	11390.7	10905.1	10378.0	9550.9	9439.9	9584.1	11722.8	9920.0
47.5°	15394.1	15147.7	13909.0	12405.1	11826.6	11330.5	10622.2	10421.6	10469.2	12746.5	11007.3
50°	16020.0	15899.6	14817.8	13288.5	12718.9	12529.4	11865.3	11620.5	11553.1	13930.5	12268.1
52.5°	15802.9	15794.1	15073.1	13861.5	13536.6	13770.3	13428.9	13146.0	12897.9	15179.1	13551.0
55°	15454.3	15500.1	15176.9	14363.1	14352.1	14903.5	15567.5	15332.2	14613.4	16535.0	14657.0
57.5°	14492.9	14688.0	15118.9	15312.3	15760.9	16325.0	17348.8	17487.5	16637.2	17573.1	15574.7
60°	11759.2	12188.0	13596.8	15448.8	17577.0	18981.9	19498.5	19616.8	18297.4	18436.1	16814.0
62.5°	8347.0	8784.6	10571.4	13704.5	17604.0	22472.6	22700.8	22235.6	20126.2	19715.6	18951.0
65°	4430.4	4768.6	6228.2	9892.4	15263.1	23283.1	28301.4	26914.6	23352.1	22231.7	21711.8
67.5°	2266.3	2368.5	2949.2	4841.5	10492.9	20680.9	33321.3	34297.5	28912.4	24728.4	21578.6
69°	2005.5	2065.8	2450.9	3500.0	6718.8	17516.7	33566.1	36832.4	31823.5	24520.1	19609.6
70°	1941.5	1994.5	2344.8	3168.0	5252.0	14689.6	32629.6	36609.7	32567.7	23728.4	18138.8
72.5°	1648.1	1693.4	2087.9	2799.5	4268.5	7291.8	26505.8	31022.4	29224.6	19766.5	13129.4
75°	1102.2	1251.9	2003.9	2624.3	3970.8	4142.6	17474.7	22417.9	20825.1	13332.2	6839.3
77.5°	264.6	284.5	565.8	2087.9	3631.5	3645.9	8987.4	13936.0	11367.0	4752.0	1616.6
80°	142.5	137.0	158.6	414.4	3381.2	3421.6	4045.9	6764.7	4058.6	788.4	532.6
82.5°	100.6	95.0	102.2	173.5	1064.1	3116.6	2927.1	3061.9	1682.3	302.8	239.2
85°	36.5	34.8	56.4	156.9	333.7	1791.7	3007.2	2525.4	1363.0	138.7	175.1
87.5°	12.7	11.0	22.1	85.6	102.2	763.0	1855.8	1908.9	536.5	84.0	82.3
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°	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5	8399.5
2.5°	8324.9	8211.7	8003.9	7790.1	7592.9	7355.9	7237.1	7120.5	7071.3	7053.1	6967.5
5°	8084.1	7892.3	7450.9	7007.2	6598.4	6164.1	5878.0	5648.1	5512.8	5447.0	5343.1
7.5°	7775.8	7461.9	6791.8	6107.8	5470.8	4843.1	4377.9	4019.9	3773.5	3655.3	3547.5
10°	7476.3	7058.6	6106.1	5173.5	4308.3	3476.3	2833.7	2368.5	2071.3	1934.3	1847.0
12.5°	7208.4	6666.4	5443.7	4263.0	3176.8	2202.8	1549.2	1179.0	994.5	930.4	899.5
15°	6969.1	6305.0	4817.7	3397.8	2151.4	1259.1	847.0	721.0	691.7	691.7	687.9
17.5°	6742.6	5950.9	4213.3	2585.7	1350.3	770.2	644.2	627.6	627.6	634.8	634.8
20°	6525.5	5613.3	3629.3	1855.8	850.3	611.1	582.3	578.5	582.3	591.2	591.2
22.5°	6339.3	5306.7	3084.0	1273.5	631.5	550.8	536.5	530.9	532.6	538.1	542.0
25°	6200.6	5047.6	2569.6	863.0	543.7	501.7	485.6	476.2	469.1	469.1	472.4
27.5°	6113.3	4828.8	2071.3	627.6	489.0	456.4	430.4	416.0	399.5	390.6	393.9
30°	6049.2	4620.5	1603.9	512.7	438.1	405.0	372.4	348.6	324.9	313.8	317.7
32.5°	6025.5	4452.5	1198.9	452.5	392.3	355.8	315.5	284.5	259.1	249.7	251.9
35°	6089.6	4319.4	877.9	408.8	355.8	309.9	264.6	229.8	209.9	204.4	206.1
37.5°	6257.5	4248.1	656.9	372.4	323.2	271.8	221.0	187.8	175.1	175.1	176.8
40°	6574.6	4246.4	527.6	347.0	293.9	235.4	182.3	158.6	151.4	155.3	156.9
42.5°	7038.2	4343.1	459.7	323.2	268.5	200.6	151.4	134.8	133.2	137.0	138.7
45°	7671.3	4519.9	423.2	302.8	240.9	168.0	127.6	116.6	116.6	122.1	124.3
47.5°	8447.0	4779.0	392.3	282.9	213.3	140.3	109.4	102.2	103.9	109.4	111.1
50°	9381.3	5106.1	361.3	260.8	193.4	116.6	95.0	89.5	91.2	98.3	100.6
52.5°	10445.4	5545.9	335.9	240.9	168.0	96.7	80.1	76.8	80.1	87.8	89.5
55°	11357.6	5939.8	305.0	224.3	134.8	80.1	65.7	65.7	69.6	78.5	80.1
57.5°	12235.5	6352.0	277.4	193.4	106.1	64.1	54.7	56.4	61.9	71.3	72.9
60°	13523.9	7050.9	244.8	162.4	80.1	50.8	45.9	47.5	54.7	64.1	65.7
62.5°	15711.7	8115.0	211.6	134.8	61.9	40.3	36.5	40.3	49.2	60.2	61.9
65°	17686.3	8547.6	173.5	113.3	47.5	30.9	30.9	36.5	47.5	58.6	60.2
67.5°	16585.8	7195.1	134.8	89.5	36.5	23.8	25.4	34.8	45.9	58.6	60.2
69°	14668.1	5883.5	114.9	71.3	30.9	22.1	23.8	34.8	45.9	56.4	58.6
70°	13173.6	4967.4	102.2	60.2	27.6	22.1	23.8	32.6	45.9	56.4	58.6
72.5°	8823.3	2682.3	82.3	43.6	25.4	19.9	19.9	32.6	43.6	54.7	56.4
75°	3791.7	740.9	65.7	30.9	22.1	18.2	18.2	30.9	42.0	53.0	56.4
77.5°	693.4	187.8	53.0	27.6	22.1	18.2	16.6	29.3	40.3	50.8	53.0
80°	275.7	92.8	42.0	23.8	19.9	16.6	14.4	27.6	38.1	49.2	50.8
82.5°	166.3	53.0	34.8	22.1	19.9	14.4	12.7	23.8	36.5	47.5	49.2
85°	134.8	36.5	27.6	22.1	18.2	14.4	11.0	22.1	32.6	45.9	47.5
87.5°	65.7	25.4	25.4	19.9	18.2	14.4	11.0	19.9	30.9	43.6	45.9
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)