

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: P300882

Luminaire Tested: **GLNA-AF-08-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300882
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-SL4-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39246.4 lumens
Efficiency: N/A
Efficacy: 88.2 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

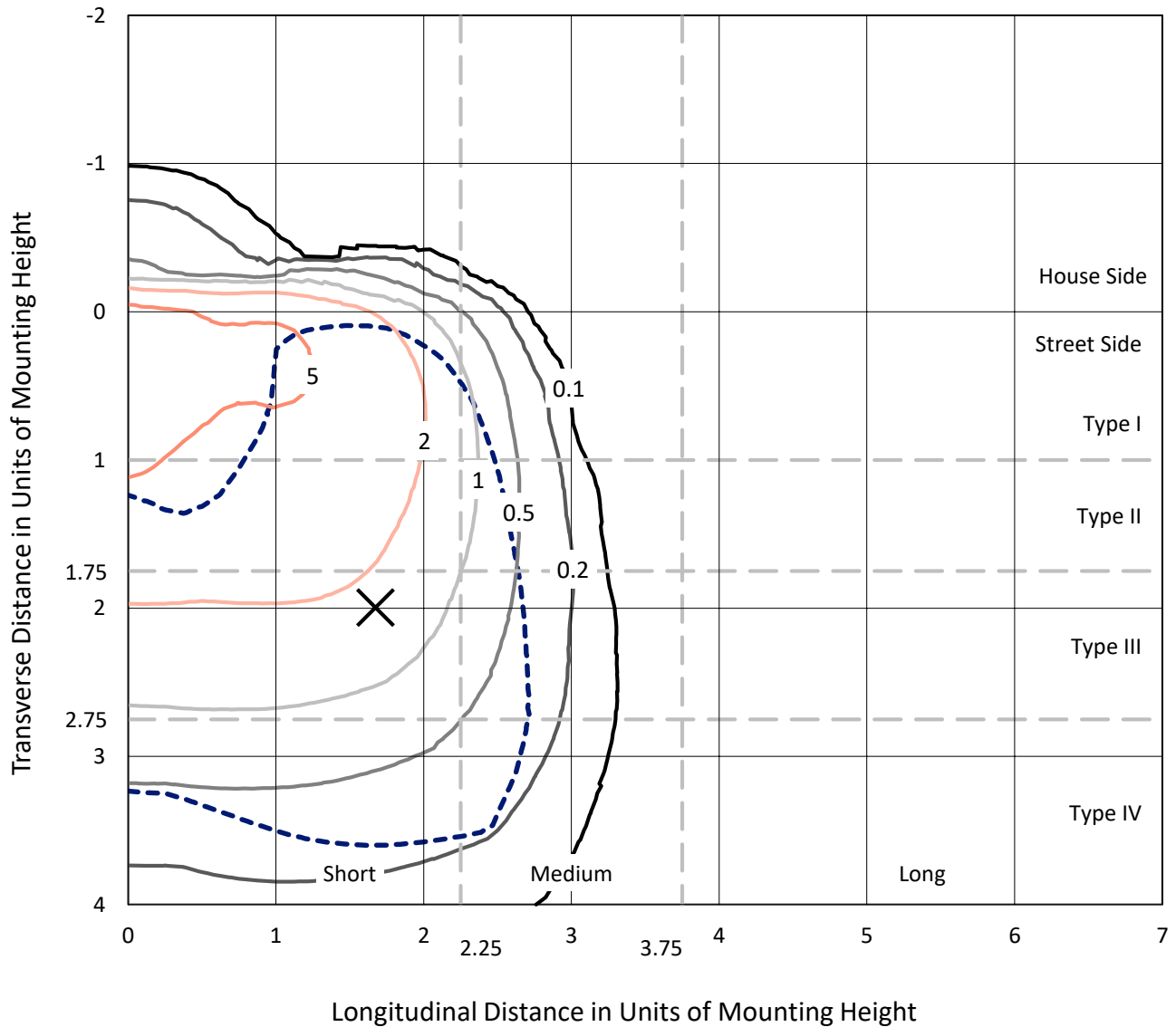
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

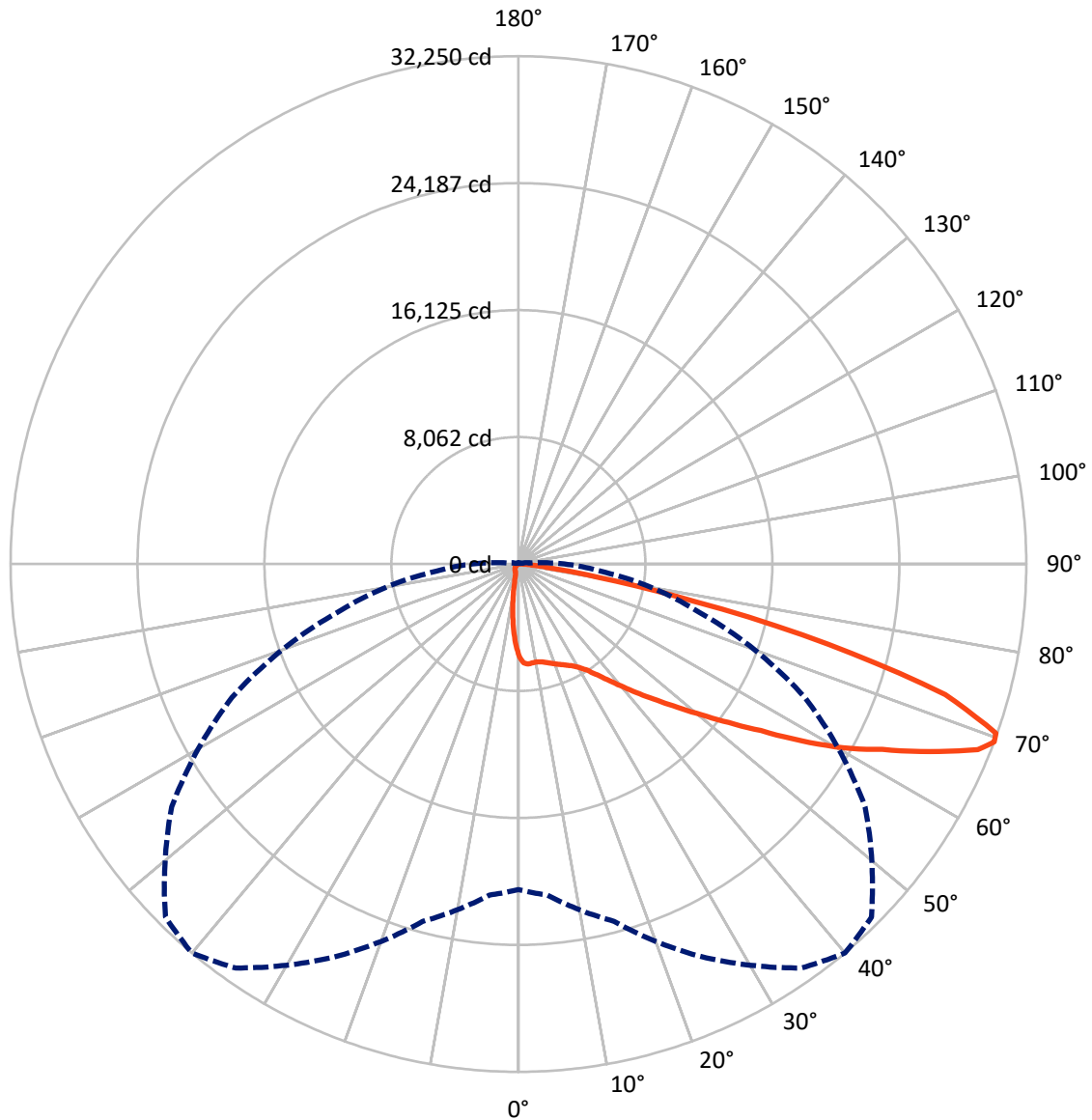
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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	2296.1	0.0	2296.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	36950.3	0.0	36950.3
	% Fixture	94.1	0.0	94.1
Total	Lumens	39246.4	0.0	39246.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.4	1.2
10°-20°	1169.2	3.0
20°-30°	1969.3	5.0
30°-40°	3223.7	8.2
40°-50°	5581.8	14.2
50°-60°	8791.9	22.4
60°-70°	11481.9	29.3
70°-80°	5913.7	15.1
80°-90°	639.7	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°	39246.4	100.0
0°-180°	39246.4	100.0



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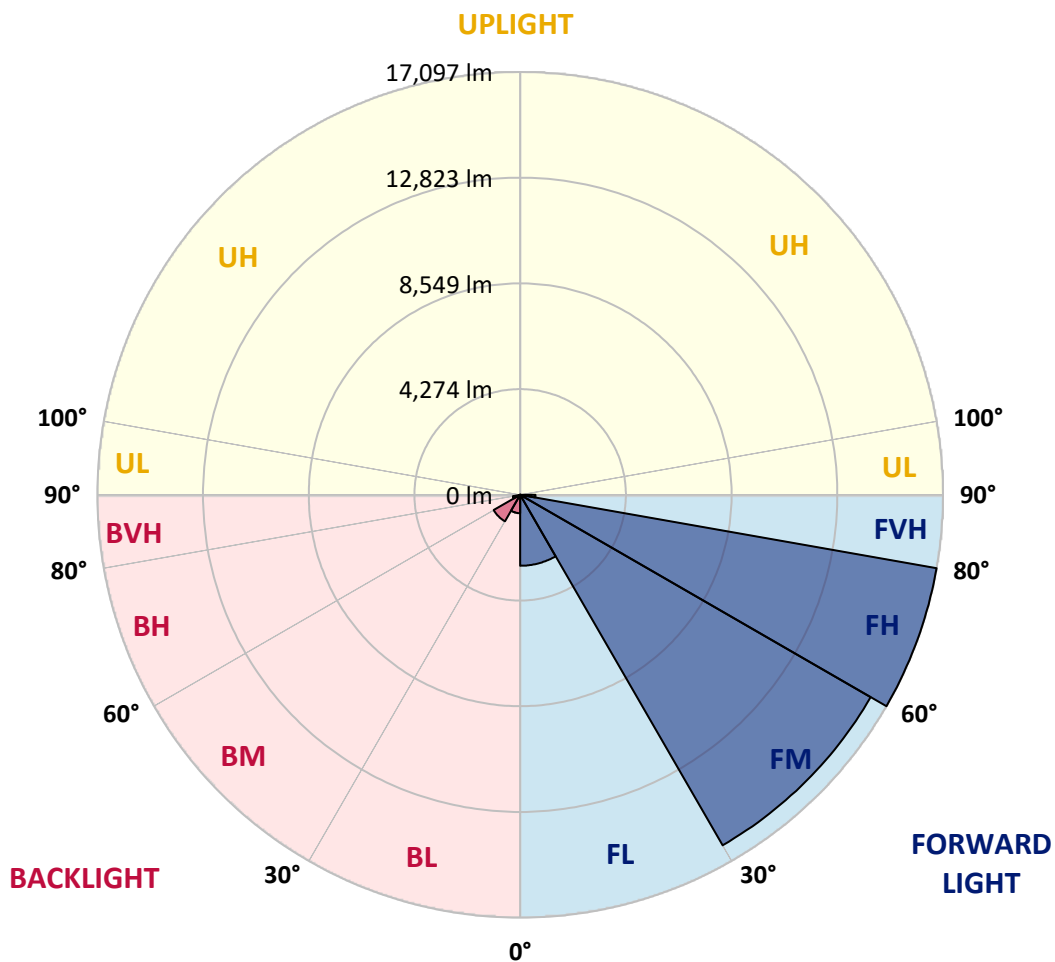
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2870.0	7.3			
FM	(30°-60°)	16363.3	41.7			
FH	(60°-80°)	17097.4	43.6			G5
FVH	(80°-90°)	619.6	1.6			G4/750
BL	(0°-30°)	743.8	1.9	B2/1000		
BM	(30°-60°)	1234.1	3.1	B2/2500		
BH	(60°-80°)	298.1	0.8	B1/500		G1/500
BVH	(80°-90°)	20.1	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°	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6
2.5°	6438.3	6403.3	6382.2	6354.2	6319.2	6288.8	6277.1	6190.7	6108.9	5996.8	5868.3
5°	6557.4	6545.8	6508.4	6471.0	6429.0	6382.2	6356.5	6253.7	6136.9	5973.4	5749.2
7.5°	6569.1	6555.1	6508.4	6457.0	6398.6	6342.5	6298.1	6195.3	6087.9	5922.0	5648.7
10°	6550.4	6534.1	6499.0	6443.0	6370.6	6316.8	6272.4	6174.3	6083.2	5933.7	5630.0
12.5°	6529.4	6513.1	6496.7	6468.7	6405.6	6368.2	6330.8	6237.4	6155.6	6029.5	5697.8
15°	6550.4	6541.1	6559.8	6548.1	6513.1	6480.4	6443.0	6358.9	6284.1	6179.0	5821.6
17.5°	6639.2	6639.2	6697.6	6704.6	6671.9	6625.2	6571.5	6487.4	6424.3	6335.5	5968.7
20°	6847.1	6840.1	6914.9	6928.9	6849.5	6777.0	6697.6	6594.8	6545.8	6489.7	6113.6
22.5°	7204.5	7171.8	7216.2	7202.2	7045.7	6933.6	6835.4	6709.3	6683.6	6657.9	6274.8
25°	7669.4	7650.7	7681.1	7543.3	7267.6	7115.8	6999.0	6856.5	6856.5	6882.2	6457.0
27.5°	8344.6	8274.5	8171.7	7928.7	7515.2	7321.3	7195.2	7043.4	7083.1	7178.8	6697.6
30°	9036.0	8959.0	8723.0	8349.2	7816.6	7613.4	7466.2	7307.3	7400.8	7576.0	7020.0
32.5°	9718.2	9631.8	9297.7	8825.8	8248.8	8045.5	7903.0	7727.8	7884.3	8178.7	7491.9
35°	10379.3	10302.2	9916.8	9360.8	8823.5	8655.3	8524.4	8372.6	8573.5	8984.7	8157.7
37.5°	11122.2	11038.1	10568.5	9965.8	9522.0	9400.5	9304.7	9152.9	9503.3	10106.0	9085.1
40°	12035.6	11893.1	11260.0	10659.6	10330.2	10271.8	10206.4	10185.4	10729.7	11563.7	10320.9
42.5°	13082.2	12848.6	11984.2	11390.8	11218.0	11260.0	11243.7	11337.1	12264.5	13376.5	11825.4
45°	14128.8	13827.4	12790.2	12171.1	12194.5	12341.6	12432.7	12806.5	14187.2	15455.7	13444.3
47.5°	15016.5	14719.8	13563.4	13014.4	13294.8	13584.4	13832.1	14539.9	16163.5	17502.1	14703.4
50°	15775.7	15495.4	14383.4	13941.9	14572.6	15039.8	15441.6	16490.6	18289.4	19060.3	15586.5
52.5°	16397.1	16210.2	15233.7	15004.8	16032.7	16717.2	17305.9	18562.7	20172.3	20326.4	16273.3
55°	17002.2	16869.0	16147.1	16268.6	17747.4	18679.5	19424.7	20761.0	21793.5	21382.4	16932.1
57.5°	17698.3	17576.8	17189.0	17871.2	20001.7	21174.4	21987.4	22709.3	23220.9	22461.6	17553.5
60°	18408.5	18338.4	18347.8	19651.3	22590.1	23716.1	24164.7	24351.5	24622.5	23477.8	17588.5
62.5°	19086.0	19219.1	19672.3	21632.3	25068.7	25933.1	26159.7	26344.2	26026.5	23639.0	16249.9
65°	20233.0	20450.3	21531.9	24283.8	27795.0	28720.1	28953.7	28320.6	26248.5	21555.2	13217.7
67.5°	20793.7	21190.8	23120.4	26755.4	30439.4	31467.3	31380.9	28449.1	23554.9	16436.8	8482.4
69°	20676.9	21099.7	23487.2	27512.3	31317.8	32249.9	31700.9	26876.9	20067.1	11907.1	5207.2
70°	20214.3	20641.8	23298.0	27484.3	31429.9	32168.1	31107.6	24935.6	16967.1	8706.7	3256.5
72.5°	16880.7	17249.8	20683.9	24842.1	28953.7	28353.3	26024.2	17275.5	8267.5	2371.1	733.5
75°	10391.0	10596.6	14841.3	18714.5	21868.3	20326.4	17338.6	8594.5	2464.6	670.5	406.5
77.5°	5489.8	5583.3	8125.0	11031.1	13862.4	11470.3	8886.5	3352.3	1135.3	420.5	294.3
80°	3244.8	3314.9	4375.5	5043.6	5999.1	5010.9	3553.2	2058.1	813.0	264.0	261.6
82.5°	1857.2	1901.6	3172.4	2803.3	2364.1	2018.4	1768.4	1950.6	488.2	177.5	271.0
85°	682.1	691.5	1784.8	2132.9	1406.3	836.3	878.4	1616.6	130.8	112.1	212.6
87.5°	317.7	310.7	918.1	1305.9	822.3	530.3	684.5	355.1	51.4	72.4	58.4
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°	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6	5863.6
2.5°	5793.5	5707.1	5550.6	5389.4	5225.9	5099.7	4975.9	4877.8	4845.1	4784.3	4789.0
5°	5616.0	5457.1	5130.1	4798.4	4452.6	4167.6	3899.0	3681.7	3576.6	3469.1	3469.1
7.5°	5461.8	5230.5	4718.9	4179.3	3621.0	3151.4	2728.6	2410.9	2235.7	2095.5	2093.1
10°	5403.4	5090.4	4375.5	3602.3	2824.3	2184.3	1682.0	1359.6	1193.7	1086.3	1081.6
12.5°	5429.1	5041.3	4111.5	3069.6	2093.1	1404.0	974.2	766.2	696.2	663.5	663.5
15°	5503.9	5027.3	3847.6	2548.7	1478.8	878.4	647.1	591.0	586.4	586.4	586.4
17.5°	5595.0	5032.0	3576.6	2041.8	1006.9	628.4	558.3	551.3	556.0	556.0	556.0
20°	5688.4	5034.3	3284.6	1572.2	710.2	546.6	525.6	523.3	528.0	528.0	530.3
22.5°	5802.9	5046.0	2992.5	1175.1	586.4	516.3	499.9	499.9	502.3	502.3	499.9
25°	5933.7	5069.3	2688.9	871.4	535.0	495.3	481.2	478.9	481.2	478.9	476.6
27.5°	6097.2	5102.1	2350.1	682.1	511.6	474.2	462.5	462.5	460.2	457.9	455.5
30°	6302.8	5139.4	1969.3	579.4	488.2	455.5	443.9	441.5	439.2	434.5	434.5
32.5°	6615.8	5221.2	1593.2	525.6	462.5	429.8	420.5	420.5	415.8	411.2	408.8
35°	7097.1	5382.4	1256.8	492.9	434.5	401.8	390.1	390.1	385.5	383.1	380.8
37.5°	7762.9	5627.7	976.5	462.5	406.5	371.4	359.8	357.4	352.8	348.1	345.7
40°	8648.3	5931.4	768.6	434.5	378.4	341.1	331.7	327.1	317.7	310.7	310.7
42.5°	9760.2	6277.1	623.7	404.1	345.7	313.0	306.0	299.0	282.7	275.7	273.3
45°	10923.6	6587.8	528.0	369.1	313.0	285.0	280.3	268.7	247.6	240.6	240.6
47.5°	11762.3	6660.2	464.9	336.4	282.7	254.6	252.3	231.3	212.6	207.9	205.6
50°	12285.6	6517.7	413.5	303.7	254.6	226.6	219.6	193.9	182.2	177.5	175.2
52.5°	12638.3	6263.1	371.4	275.7	228.9	200.9	184.6	165.9	156.5	151.8	151.8
55°	12921.0	5903.3	329.4	250.0	207.9	179.9	156.5	142.5	133.2	128.5	128.5
57.5°	13000.4	5415.1	287.3	228.9	186.9	158.9	133.2	123.8	112.1	109.8	109.8
60°	12423.4	4534.4	254.6	203.2	168.2	137.8	116.8	105.1	93.4	91.1	88.8
62.5°	10902.6	3508.8	224.3	179.9	147.2	119.1	100.5	86.4	77.1	77.1	77.1
65°	8316.5	2352.5	196.2	156.5	128.5	100.5	86.4	70.1	65.4	65.4	67.7
67.5°	4978.2	1280.2	168.2	133.2	109.8	84.1	72.4	60.7	58.4	60.7	60.7
69°	2917.8	752.2	151.8	119.1	95.8	74.8	63.1	53.7	58.4	60.7	60.7
70°	1801.1	506.9	140.2	107.5	86.4	67.7	58.4	51.4	56.1	58.4	58.4
72.5°	502.3	261.6	112.1	84.1	70.1	56.1	46.7	46.7	53.7	56.1	56.1
75°	327.1	193.9	86.4	63.1	53.7	44.4	39.7	44.4	51.4	53.7	53.7
77.5°	271.0	158.9	70.1	51.4	44.4	42.0	37.4	39.7	46.7	49.1	49.1
80°	247.6	112.1	56.1	46.7	39.7	37.4	35.0	32.7	42.0	44.4	44.4
82.5°	235.9	88.8	49.1	42.0	37.4	32.7	30.4	32.7	37.4	39.7	42.0
85°	147.2	58.4	44.4	39.7	32.7	30.4	30.4	30.4	35.0	37.4	37.4
87.5°	53.7	46.7	39.7	32.7	28.0	28.0	28.0	28.0	30.4	35.0	35.0
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)