

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: P301915

Luminaire Tested: **GLNA-AF-10-LED-E1-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301915
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-10-LED-E1-SL4-7030-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K 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: 33951.2 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

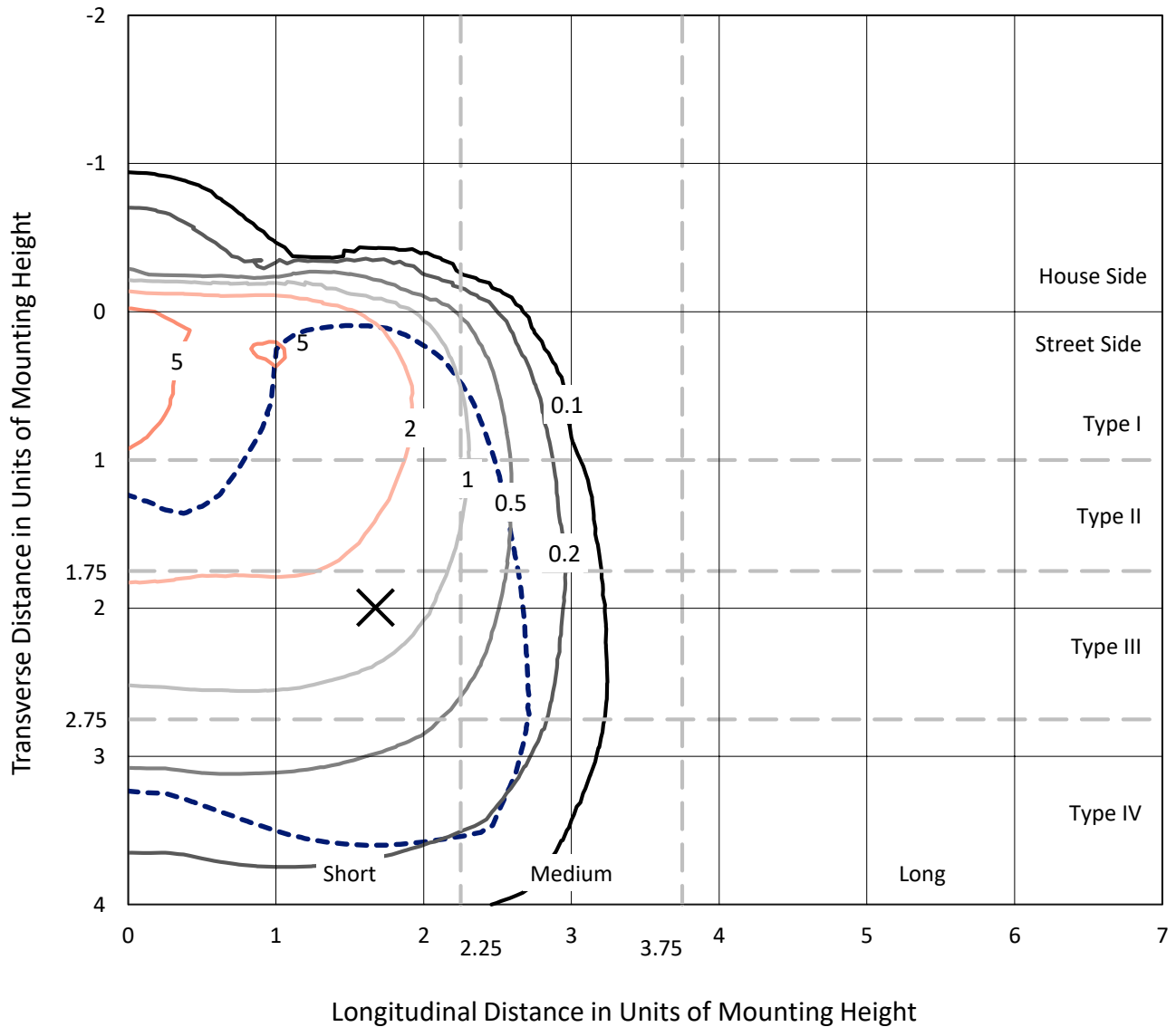
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

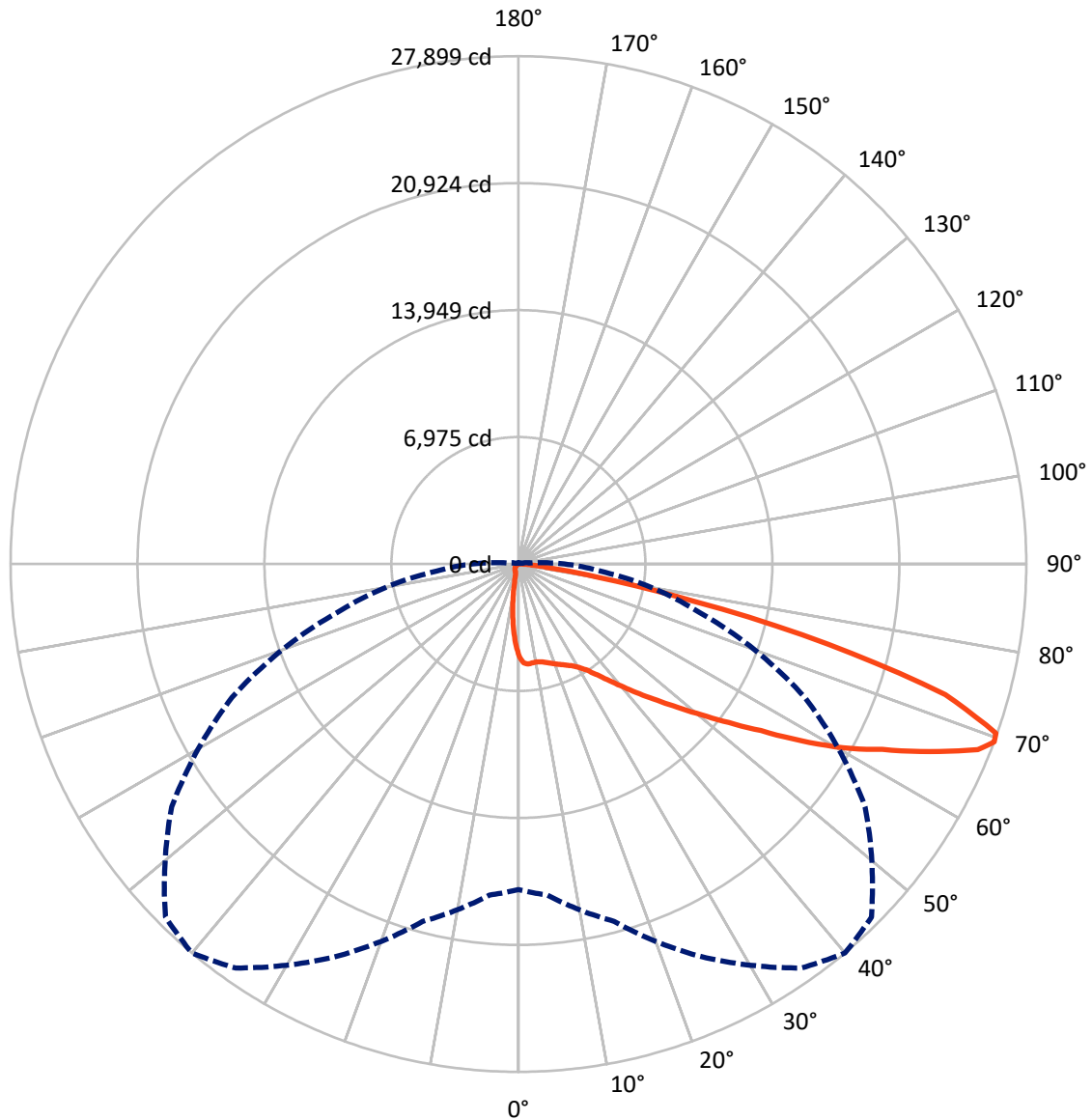


Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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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	1986.3	0.0	1986.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	31964.9	0.0	31964.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	33951.2	0.0	33951.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.3	1.2
10°-20°	1011.4	3.0
20°-30°	1703.6	5.0
30°-40°	2788.8	8.2
40°-50°	4828.7	14.2
50°-60°	7605.7	22.4
60°-70°	9932.7	29.3
70°-80°	5115.8	15.1
80°-90°	553.4	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°	33951.2	100.0
0°-180°	33951.2	100.0



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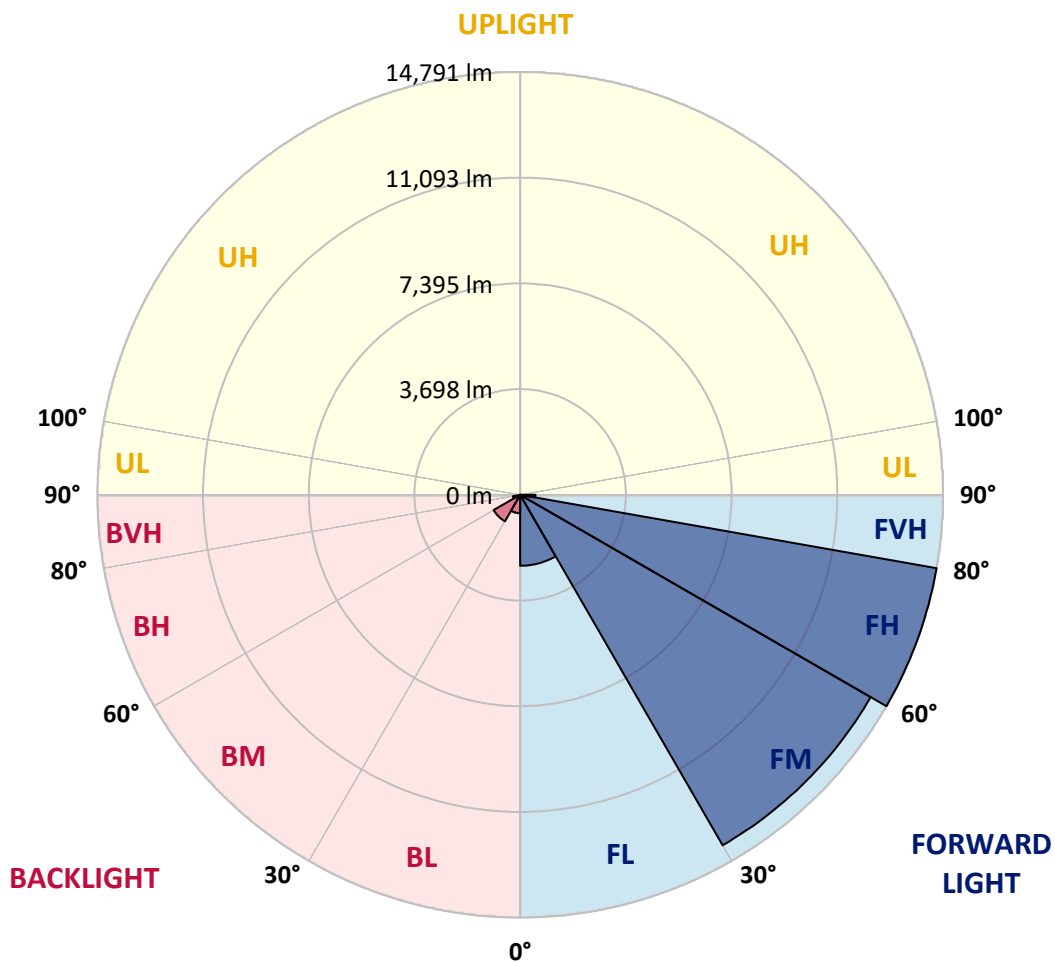
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2482.8	7.3			
FM	(30°-60°)	14155.5	41.7			
FH	(60°-80°)	14790.6	43.6			G5
FVH	(80°-90°)	536.0	1.6			G4/750
BL	(0°-30°)	643.4	1.9	B2/1000		
BM	(30°-60°)	1067.6	3.1	B2/2500		
BH	(60°-80°)	257.9	0.8	B1/500		G1/500
BVH	(80°-90°)	17.4	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°	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5
2.5°	5569.6	5539.3	5521.1	5496.9	5466.6	5440.3	5430.2	5355.4	5284.7	5187.7	5076.5
5°	5672.7	5662.6	5630.3	5597.9	5561.5	5521.1	5498.9	5410.0	5308.9	5167.5	4973.5
7.5°	5682.8	5670.7	5630.3	5585.8	5535.3	5486.8	5448.4	5359.5	5266.5	5123.0	4886.6
10°	5666.6	5652.5	5622.2	5573.7	5511.0	5464.5	5426.1	5341.3	5262.5	5133.1	4870.4
12.5°	5648.4	5634.3	5620.2	5595.9	5541.3	5509.0	5476.7	5395.8	5325.1	5216.0	4929.0
15°	5666.6	5658.6	5674.7	5664.6	5634.3	5606.0	5573.7	5500.9	5436.3	5345.3	5036.1
17.5°	5743.4	5743.4	5794.0	5800.0	5771.7	5731.3	5684.8	5612.1	5557.5	5480.7	5163.4
20°	5923.3	5917.2	5981.9	5994.0	5925.3	5862.7	5794.0	5705.0	5662.6	5614.1	5288.7
22.5°	6232.5	6204.2	6242.6	6230.5	6095.1	5998.1	5913.2	5804.1	5781.8	5759.6	5428.2
25°	6634.7	6618.5	6644.8	6525.5	6287.1	6155.7	6054.7	5931.4	5931.4	5953.6	5585.8
27.5°	7218.7	7158.1	7069.1	6859.0	6501.3	6333.5	6224.4	6093.0	6127.4	6210.3	5794.0
30°	7816.9	7750.2	7546.1	7222.7	6762.0	6586.2	6458.8	6321.4	6402.2	6553.8	6072.8
32.5°	8407.0	8332.2	8043.2	7635.0	7135.8	6960.0	6836.7	6685.2	6820.6	7075.2	6481.1
35°	8978.9	8912.2	8578.8	8097.8	7633.0	7487.5	7374.3	7242.9	7416.7	7772.4	7057.0
37.5°	9621.6	9548.8	9142.6	8621.2	8237.2	8132.1	8049.3	7917.9	8221.1	8742.5	7859.3
40°	10411.7	10288.5	9740.8	9221.4	8936.5	8885.9	8829.4	8811.2	9282.0	10003.5	8928.4
42.5°	11317.1	11115.0	10367.3	9854.0	9704.4	9740.8	9726.6	9807.5	10609.8	11571.7	10229.9
45°	12222.5	11961.8	11064.5	10528.9	10549.2	10676.5	10755.3	11078.6	12273.0	13370.4	11630.3
47.5°	12990.4	12733.8	11733.4	11258.5	11501.0	11751.6	11965.8	12578.2	13982.7	15140.7	12719.6
50°	13647.2	13404.7	12442.8	12060.8	12606.4	13010.6	13358.2	14265.6	15821.7	16488.6	13483.5
52.5°	14184.8	14023.1	13178.4	12980.3	13869.5	14461.6	14970.9	16058.2	17450.6	17584.0	14077.7
55°	14708.2	14593.0	13968.5	14073.6	15352.9	16159.2	16803.9	17959.8	18853.1	18497.4	14647.6
57.5°	15310.4	15205.3	14869.9	15460.0	17303.0	18317.5	19020.8	19645.3	20087.9	19431.1	15185.1
60°	15924.8	15864.2	15872.2	16999.9	19542.2	20516.3	20904.3	21066.0	21300.4	20310.2	15215.4
62.5°	16510.8	16626.0	17018.1	18713.6	21686.4	22434.1	22630.2	22789.8	22515.0	20449.6	14057.5
65°	17503.1	17691.1	18626.7	21007.4	24044.8	24845.1	25047.2	24499.5	22707.0	18647.0	11434.3
67.5°	17988.1	18331.7	20001.0	23145.5	26332.5	27221.7	27146.9	24610.7	20376.9	14219.1	7337.9
69°	17887.1	18252.9	20318.2	23800.3	27092.3	27898.7	27423.8	23250.6	17359.6	10300.6	4504.6
70°	17486.9	17856.8	20154.6	23776.0	27189.3	27828.0	26910.5	21571.2	14677.9	7531.9	2817.2
72.5°	14603.1	14922.4	17893.2	21490.4	25047.2	24527.8	22513.0	14944.6	7152.0	2051.2	634.6
75°	8989.0	9166.9	12838.9	16189.5	18917.8	17584.0	14999.2	7434.9	2132.1	580.0	351.6
77.5°	4749.1	4830.0	7028.7	9542.7	11992.1	9922.7	7687.5	2900.0	982.2	363.8	254.6
80°	2807.0	2867.7	3785.2	4363.1	5189.7	4334.9	3073.8	1780.4	703.3	228.4	226.3
82.5°	1606.6	1645.0	2744.4	2425.1	2045.2	1746.1	1529.8	1687.5	422.4	153.6	234.4
85°	590.1	598.2	1544.0	1845.1	1216.6	723.5	759.9	1398.5	113.2	97.0	183.9
87.5°	274.8	268.8	794.2	1129.7	711.4	458.7	592.1	307.2	44.5	62.6	50.5
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°	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5	5072.5
2.5°	5011.9	4937.1	4801.7	4662.2	4520.8	4411.7	4304.5	4219.7	4191.4	4138.8	4142.9
5°	4858.3	4720.8	4437.9	4151.0	3851.9	3605.3	3372.9	3185.0	3094.0	3001.1	3001.1
7.5°	4724.9	4524.8	4082.2	3615.4	3132.4	2726.2	2360.4	2085.6	1934.0	1812.8	1810.7
10°	4674.4	4403.6	3785.2	3116.2	2443.3	1889.6	1455.1	1176.2	1032.7	939.7	935.7
12.5°	4696.6	4361.1	3556.8	2655.5	1810.7	1214.6	842.7	662.9	602.2	573.9	573.9
15°	4761.3	4349.0	3328.4	2204.8	1279.2	759.9	559.8	511.3	507.2	507.2	507.2
17.5°	4840.1	4353.0	3094.0	1766.3	871.0	543.6	483.0	476.9	481.0	481.0	481.0
20°	4920.9	4355.1	2841.4	1360.1	614.4	472.9	454.7	452.7	456.7	456.7	458.7
22.5°	5019.9	4365.2	2588.8	1016.5	507.2	446.6	432.5	432.5	434.5	434.5	432.5
25°	5133.1	4385.4	2326.1	753.8	462.8	428.4	416.3	414.3	416.3	414.3	412.3
27.5°	5274.6	4413.7	2033.0	590.1	442.6	410.2	400.1	400.1	398.1	396.1	394.1
30°	5452.4	4446.0	1703.6	501.2	422.4	394.1	384.0	382.0	379.9	375.9	375.9
32.5°	5723.2	4516.7	1378.3	454.7	400.1	371.8	363.8	363.8	359.7	355.7	353.7
35°	6139.5	4656.2	1087.3	426.4	375.9	347.6	337.5	337.5	333.5	331.4	329.4
37.5°	6715.5	4868.4	844.7	400.1	351.6	321.3	311.2	309.2	305.2	301.1	299.1
40°	7481.4	5131.1	664.9	375.9	327.4	295.1	287.0	282.9	274.8	268.8	268.8
42.5°	8443.4	5430.2	539.6	349.6	299.1	270.8	264.7	258.7	244.5	238.5	236.4
45°	9449.8	5699.0	456.7	319.3	270.8	246.6	242.5	232.4	214.2	208.2	208.2
47.5°	10175.3	5761.6	402.2	291.0	244.5	220.3	218.3	200.1	183.9	179.9	177.8
50°	10628.0	5638.3	357.7	262.7	220.3	196.0	190.0	167.7	157.6	153.6	151.6
52.5°	10933.1	5418.1	321.3	238.5	198.0	173.8	159.7	143.5	135.4	131.4	131.4
55°	11177.7	5106.8	284.9	216.2	179.9	155.6	135.4	123.3	115.2	111.2	111.2
57.5°	11246.4	4684.5	248.6	198.0	161.7	137.4	115.2	107.1	97.0	95.0	95.0
60°	10747.2	3922.6	220.3	175.8	145.5	119.2	101.0	90.9	80.8	78.8	76.8
62.5°	9431.6	3035.4	194.0	155.6	127.3	103.1	86.9	74.8	66.7	66.7	66.7
65°	7194.4	2035.1	169.8	135.4	111.2	86.9	74.8	60.6	56.6	56.6	58.6
67.5°	4306.6	1107.5	145.5	115.2	95.0	72.8	62.6	52.5	50.5	52.5	52.5
69°	2524.1	650.7	131.4	103.1	82.9	64.7	54.6	46.5	50.5	52.5	52.5
70°	1558.1	438.5	121.3	93.0	74.8	58.6	50.5	44.5	48.5	50.5	50.5
72.5°	434.5	226.3	97.0	72.8	60.6	48.5	40.4	40.4	46.5	48.5	48.5
75°	282.9	167.7	74.8	54.6	46.5	38.4	34.4	38.4	44.5	46.5	46.5
77.5°	234.4	137.4	60.6	44.5	38.4	36.4	32.3	34.4	40.4	42.4	42.4
80°	214.2	97.0	48.5	40.4	34.4	32.3	30.3	28.3	36.4	38.4	38.4
82.5°	204.1	76.8	42.4	36.4	32.3	28.3	26.3	28.3	32.3	34.4	36.4
85°	127.3	50.5	38.4	34.4	28.3	26.3	26.3	26.3	30.3	32.3	32.3
87.5°	46.5	40.4	34.4	28.3	24.3	24.3	24.3	24.3	26.3	30.3	30.3
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)