

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-10-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-10-LED-E1-SL3-7030-800-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 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: 35729.2 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

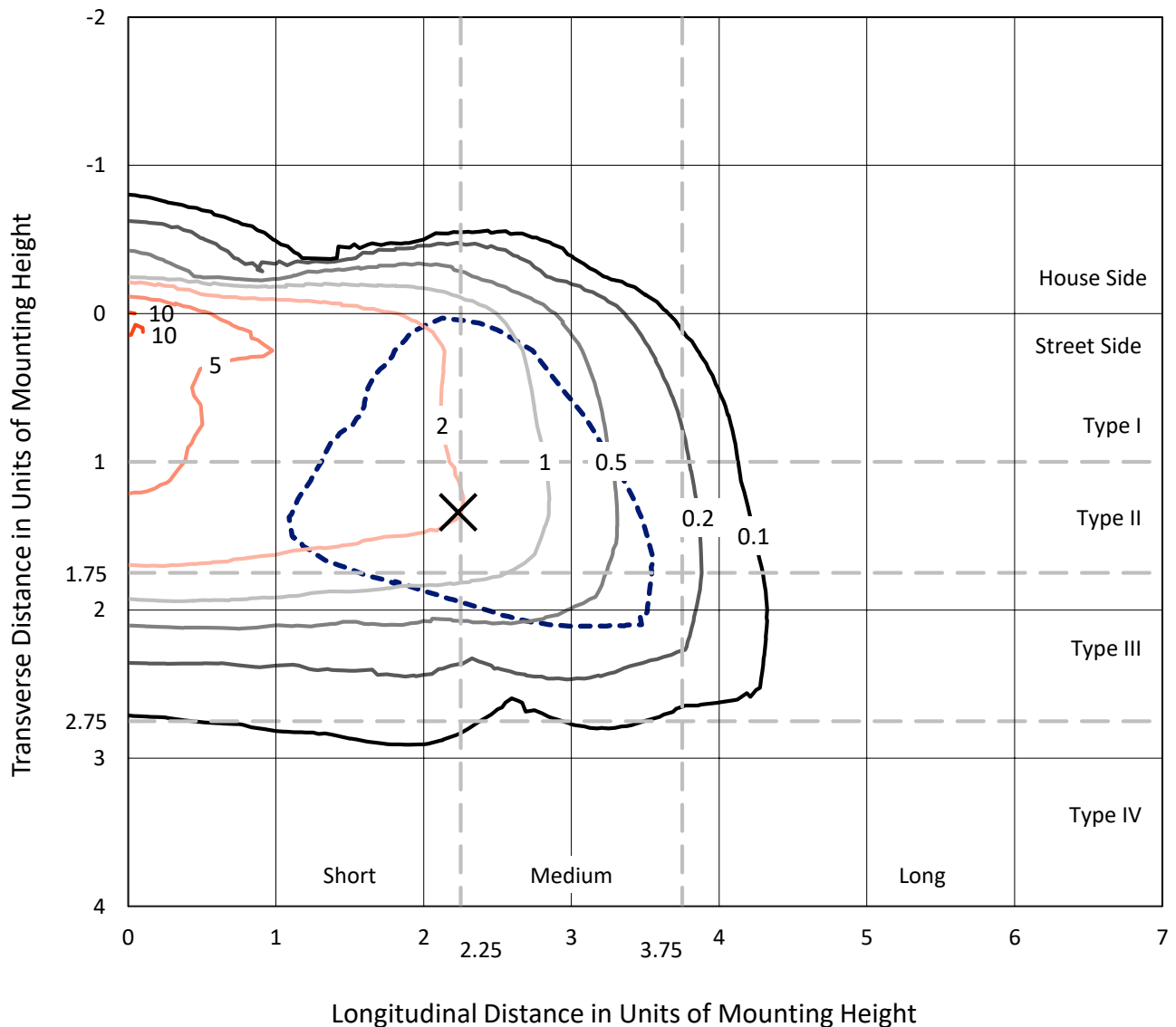
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

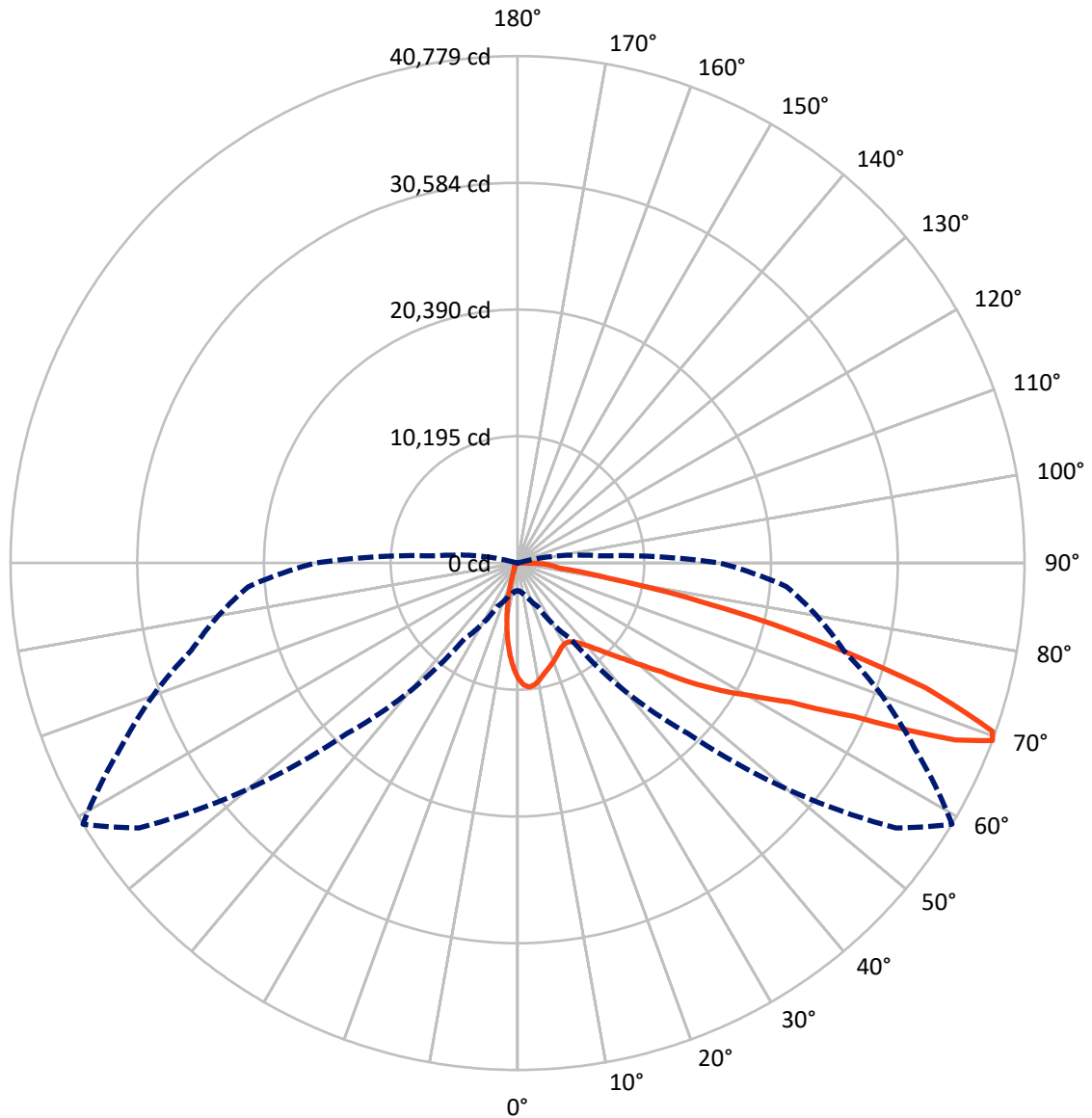


Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - Non-Cutoff

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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	2909.6	0.0	2909.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	32819.5	0.0	32819.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	35729.2	0.0	35729.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.9	2.1
10°-20°	1559.8	4.4
20°-30°	2098.9	5.9
30°-40°	3047.4	8.5
40°-50°	5074.2	14.2
50°-60°	7915.6	22.2
60°-70°	9795.0	27.4
70°-80°	4964.0	13.9
80°-90°	519.4	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°	35729.2	100.0
0°-180°	35729.2	100.0



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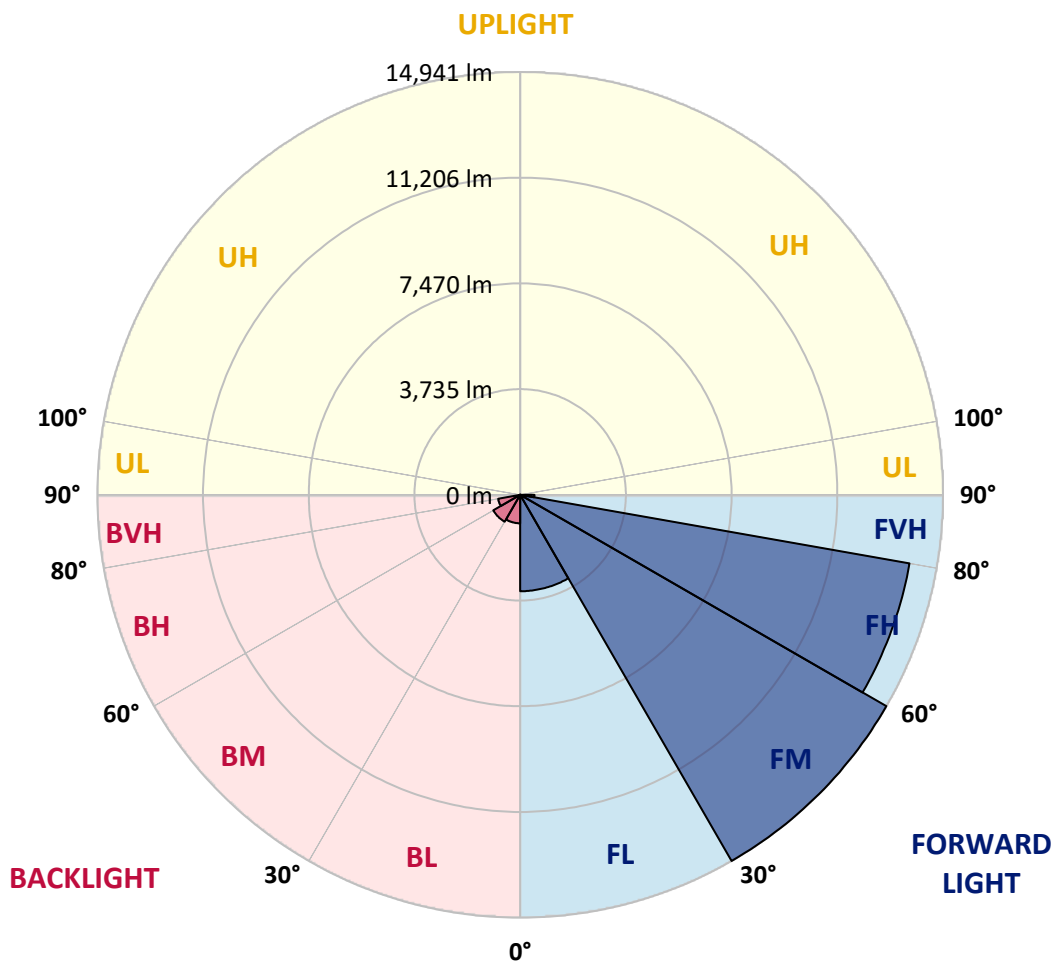
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3406.4	9.5			
FM	(30°-60°)	14940.9	41.8			
FH	(60°-80°)	13968.8	39.1			G5
FVH	(80°-90°)	503.4	1.4			G4/750
BL	(0°-30°)	1007.1	2.8	B3/2500		
BM	(30°-60°)	1096.3	3.1	B2/2500		
BH	(60°-80°)	790.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	16.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6
2.5°	10192.7	10189.0	10144.4	10124.2	10087.5	10011.0	9891.7	9829.3	9728.4	9552.2	9316.1
5°	10099.7	10148.7	10174.3	10176.8	10203.1	10174.3	10067.3	10015.3	9875.8	9592.6	9168.7
7.5°	9469.7	9487.4	9562.6	9626.9	9752.3	9871.6	9910.1	9887.5	9804.9	9502.1	8938.1
10°	8795.0	8812.7	8902.0	8986.4	9156.5	9340.0	9533.9	9574.9	9609.1	9372.4	8716.1
12.5°	8212.6	8231.0	8322.1	8432.8	8631.0	8857.4	9158.3	9225.0	9376.7	9249.5	8538.1
15°	7711.7	7719.6	7808.9	7945.9	8182.7	8473.2	8815.2	8922.2	9154.6	9162.6	8382.7
17.5°	7285.3	7305.5	7360.5	7491.4	7750.2	8109.9	8508.1	8661.6	8933.8	9089.8	8231.0
20°	7024.7	7044.9	7043.1	7115.9	7348.3	7731.8	8201.0	8384.5	8716.1	9015.2	8095.8
22.5°	6974.6	6974.6	6922.0	6911.6	7049.2	7370.3	7881.7	8105.6	8519.7	8982.8	8001.0
25°	7154.4	7145.8	7014.9	6907.9	6914.0	7105.5	7572.2	7838.9	8354.5	9004.8	7950.2
27.5°	7534.3	7523.9	7358.1	7154.4	6990.5	6988.6	7337.9	7624.8	8223.0	9110.0	7970.4
30°	8059.1	8055.4	7875.6	7618.7	7322.0	7049.2	7257.2	7517.7	8138.0	9299.6	8016.9
32.5°	8632.9	8626.8	8491.6	8221.2	7845.0	7322.0	7342.2	7560.6	8162.5	9552.2	8130.1
35°	9241.5	9231.1	9172.4	8936.3	8522.2	7824.8	7621.1	7790.6	8316.0	9930.3	8352.1
37.5°	9899.7	9910.1	9952.3	9726.0	9291.7	8530.1	8087.8	8202.8	8624.9	10443.5	8713.6
40°	10871.7	10869.8	10883.9	10586.6	10168.8	9392.6	8739.9	8776.6	9142.4	11124.3	9263.5
42.5°	12635.2	12512.2	12138.5	11532.3	11112.1	10378.6	9562.6	9524.1	9774.9	11966.6	10033.0
45°	15005.5	14742.5	13773.0	12611.3	12073.7	11490.1	10574.4	10451.4	10611.1	12979.0	10983.0
47.5°	17043.7	16770.9	15399.5	13734.4	13094.0	12544.7	11760.5	11538.4	11591.0	14112.4	12186.8
50°	17736.7	17603.4	16405.7	14712.5	14081.9	13872.0	13136.8	12865.8	12791.2	15423.3	13582.7
52.5°	17496.3	17486.6	16688.3	15346.8	14987.2	15245.9	14867.9	14554.7	14280.0	16805.7	15003.1
55°	17110.4	17161.1	16803.3	15902.3	15890.0	16500.5	17235.8	16975.2	16179.4	18306.8	16227.7
57.5°	16046.0	16261.9	16739.1	16953.2	17449.9	18074.4	19207.9	19361.4	18420.0	19456.2	17243.7
60°	13019.3	13494.0	15053.8	17104.2	19460.5	21016.0	21588.0	21718.9	20258.2	20411.7	18615.7
62.5°	9241.5	9726.0	11704.2	15173.1	19490.5	24880.7	25133.4	24618.3	22282.9	21828.4	20981.8
65°	4905.2	5279.5	6895.7	10952.4	16898.7	25778.1	31334.1	29798.8	25854.6	24614.0	24038.4
67.5°	2509.2	2622.3	3265.2	5360.3	11617.3	22897.0	36892.0	37972.9	32010.7	27378.3	23891.0
69°	2220.5	2287.1	2713.5	3875.1	7438.8	19393.8	37163.0	40779.3	35233.7	27147.7	21710.9
70°	2149.5	2208.2	2596.0	3507.5	5814.8	16263.8	36126.2	40532.8	36057.7	26271.1	20082.6
72.5°	1824.7	1874.8	2311.6	3099.5	4726.0	8073.2	29346.1	34346.7	32356.3	21884.7	14536.3
75°	1220.3	1386.1	2218.6	2905.6	4396.3	4586.5	19347.3	24820.2	23056.7	14760.8	7572.2
77.5°	293.0	315.0	626.4	2311.6	4020.7	4036.6	9950.5	15429.4	12585.0	5261.2	1789.8
80°	157.8	151.7	175.6	458.8	3743.6	3788.2	4479.5	7489.6	4493.5	872.9	589.7
82.5°	111.3	105.2	113.2	192.1	1178.1	3450.6	3240.8	3390.0	1862.6	335.2	264.9
85°	40.4	38.5	62.4	173.7	369.5	1983.7	3329.5	2796.1	1509.1	153.5	193.9
87.5°	14.1	12.2	24.5	94.8	113.2	844.8	2054.7	2113.4	594.0	93.0	91.1
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°	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6	9299.6
2.5°	9217.0	9091.6	8861.6	8624.9	8406.5	8144.1	8012.6	7883.5	7829.1	7808.9	7714.1
5°	8950.3	8738.1	8249.3	7758.1	7305.5	6824.7	6507.8	6253.4	6103.5	6030.7	5915.7
7.5°	8609.0	8261.6	7519.6	6762.3	6057.0	5362.1	4847.1	4450.7	4177.9	4047.0	3927.7
10°	8277.5	7815.0	6760.5	5727.9	4770.0	3848.8	3137.4	2622.3	2293.2	2141.5	2044.9
12.5°	7980.8	7380.7	6027.0	4719.8	3517.3	2438.8	1715.2	1305.4	1101.1	1030.1	995.8
15°	7715.9	6980.7	5334.0	3761.9	2381.9	1394.1	937.7	798.3	765.8	765.8	761.6
17.5°	7465.1	6588.6	4664.8	2862.7	1495.0	852.7	713.2	694.9	694.9	702.8	702.8
20°	7224.7	6214.8	4018.2	2054.7	941.4	676.5	644.7	640.4	644.7	654.5	654.5
22.5°	7018.6	5875.3	3414.5	1410.0	699.2	609.9	594.0	587.8	589.7	595.8	600.1
25°	6865.1	5588.5	2845.0	955.5	601.9	555.4	537.7	527.3	519.3	519.3	523.0
27.5°	6768.4	5346.2	2293.2	694.9	541.4	505.3	476.5	460.6	442.3	432.5	436.1
30°	6697.5	5115.6	1775.8	567.7	485.1	448.4	412.3	386.0	359.7	347.4	351.7
32.5°	6671.2	4929.7	1327.4	501.0	434.3	393.9	349.3	315.0	286.9	276.5	278.9
35°	6742.1	4782.2	972.0	452.7	393.9	343.2	293.0	254.5	232.4	226.3	228.2
37.5°	6928.1	4703.3	727.3	412.3	357.8	301.0	244.7	208.0	193.9	193.9	195.7
40°	7279.2	4701.5	584.2	384.1	325.4	260.6	201.9	175.6	167.6	171.9	173.7
42.5°	7792.4	4808.5	508.9	357.8	297.3	222.0	167.6	149.3	147.4	151.7	153.5
45°	8493.4	5004.3	468.6	335.2	266.7	186.0	141.3	129.1	129.1	135.2	137.6
47.5°	9352.2	5291.2	434.3	313.2	236.1	155.4	121.1	113.2	115.0	121.1	123.0
50°	10386.6	5653.3	400.0	288.7	214.1	129.1	105.2	99.1	100.9	108.9	111.3
52.5°	11564.7	6140.2	371.9	266.7	186.0	107.0	88.7	85.0	88.7	97.3	99.1
55°	12574.6	6576.3	337.7	248.3	149.3	88.7	72.8	72.8	77.1	86.9	88.7
57.5°	13546.6	7032.7	307.1	214.1	117.4	71.0	60.6	62.4	68.5	78.9	80.7
60°	14973.1	7806.5	271.0	179.8	88.7	56.3	50.8	52.6	60.6	71.0	72.8
62.5°	17395.4	8984.6	234.3	149.3	68.5	44.7	40.4	44.7	54.4	66.7	68.5
65°	19581.6	9463.6	192.1	125.4	52.6	34.3	34.3	40.4	52.6	64.8	66.7
67.5°	18363.1	7966.1	149.3	99.1	40.4	26.3	28.1	38.5	50.8	64.8	66.7
69°	16239.9	6514.0	127.2	78.9	34.3	24.5	26.3	38.5	50.8	62.4	64.8
70°	14585.3	5499.8	113.2	66.7	30.6	24.5	26.3	36.1	50.8	62.4	64.8
72.5°	9768.8	2969.8	91.1	48.3	28.1	22.0	22.0	36.1	48.3	60.6	62.4
75°	4198.1	820.3	72.8	34.3	24.5	20.2	20.2	34.3	46.5	58.7	62.4
77.5°	767.7	208.0	58.7	30.6	24.5	20.2	18.4	32.4	44.7	56.3	58.7
80°	305.2	102.8	46.5	26.3	22.0	18.4	15.9	30.6	42.2	54.4	56.3
82.5°	184.1	58.7	38.5	24.5	22.0	15.9	14.1	26.3	40.4	52.6	54.4
85°	149.3	40.4	30.6	24.5	20.2	15.9	12.2	24.5	36.1	50.8	52.6
87.5°	72.8	28.1	28.1	22.0	20.2	15.9	12.2	22.0	34.3	48.3	50.8
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)