

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: P300880

Luminaire Tested: **GLNA-AF-07-LED-E1-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300880
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-07-LED-E1-SL4-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K 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: 39867.1 lumens
Efficiency: N/A
Efficacy: 102.0 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

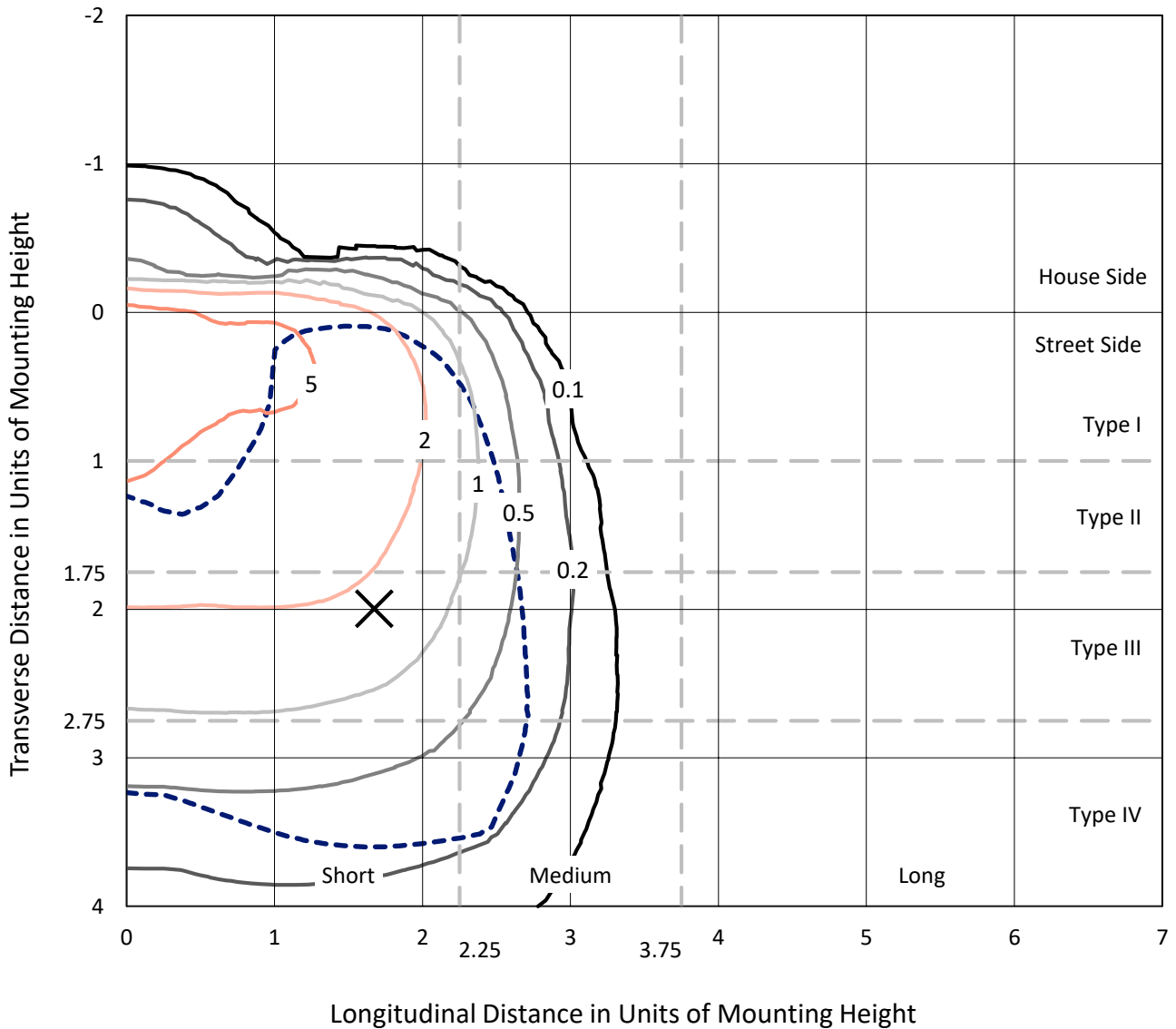
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

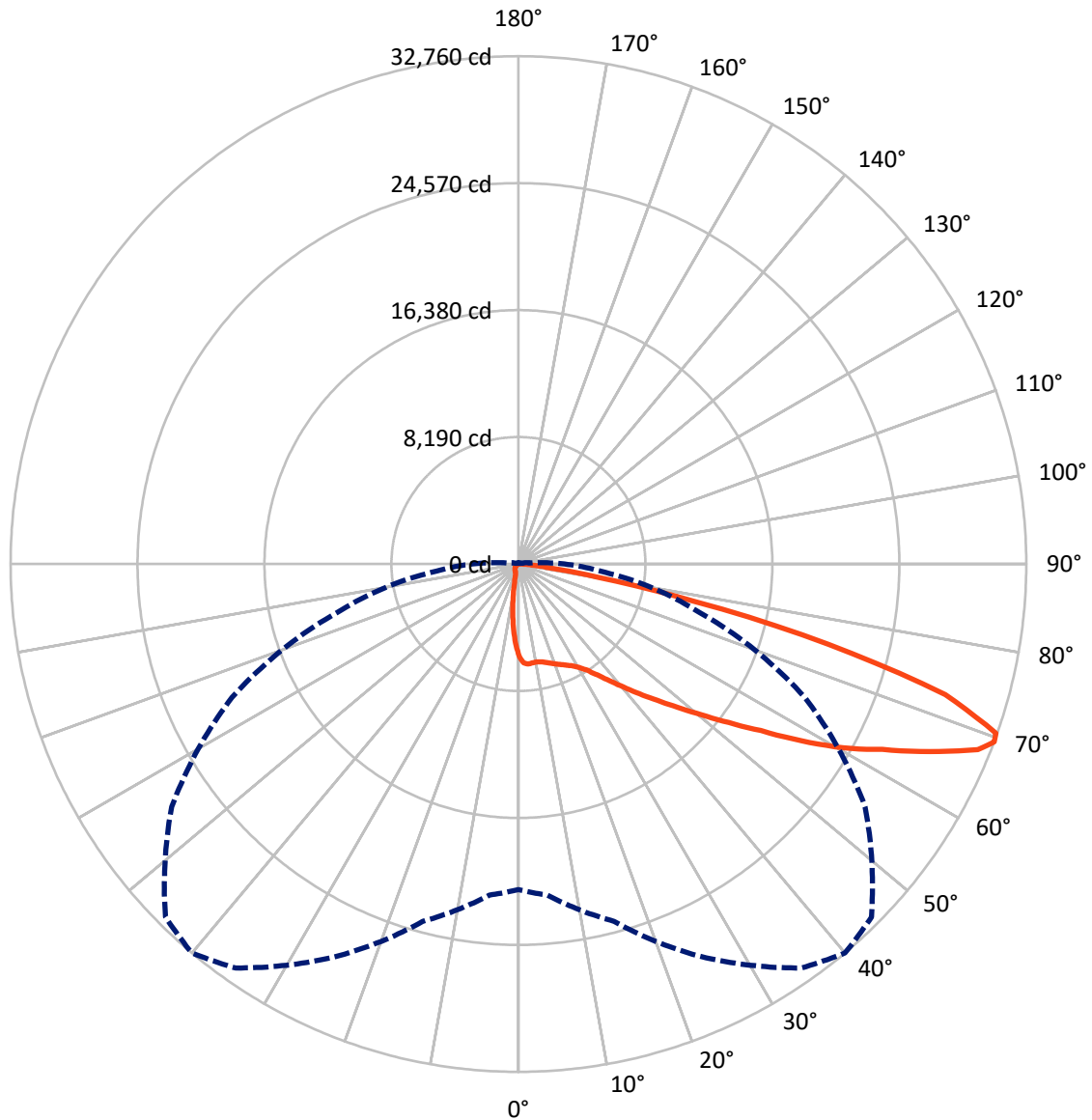
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	2332.4	0.0	2332.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	37534.6	0.0	37534.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	39867.1	0.0	39867.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.9	1.2
10°-20°	1187.6	3.0
20°-30°	2000.4	5.0
30°-40°	3274.7	8.2
40°-50°	5670.1	14.2
50°-60°	8930.9	22.4
60°-70°	11663.4	29.3
70°-80°	6007.2	15.1
80°-90°	649.8	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°	39867.1	100.0
0°-180°	39867.1	100.0

Coefficient of Utilization



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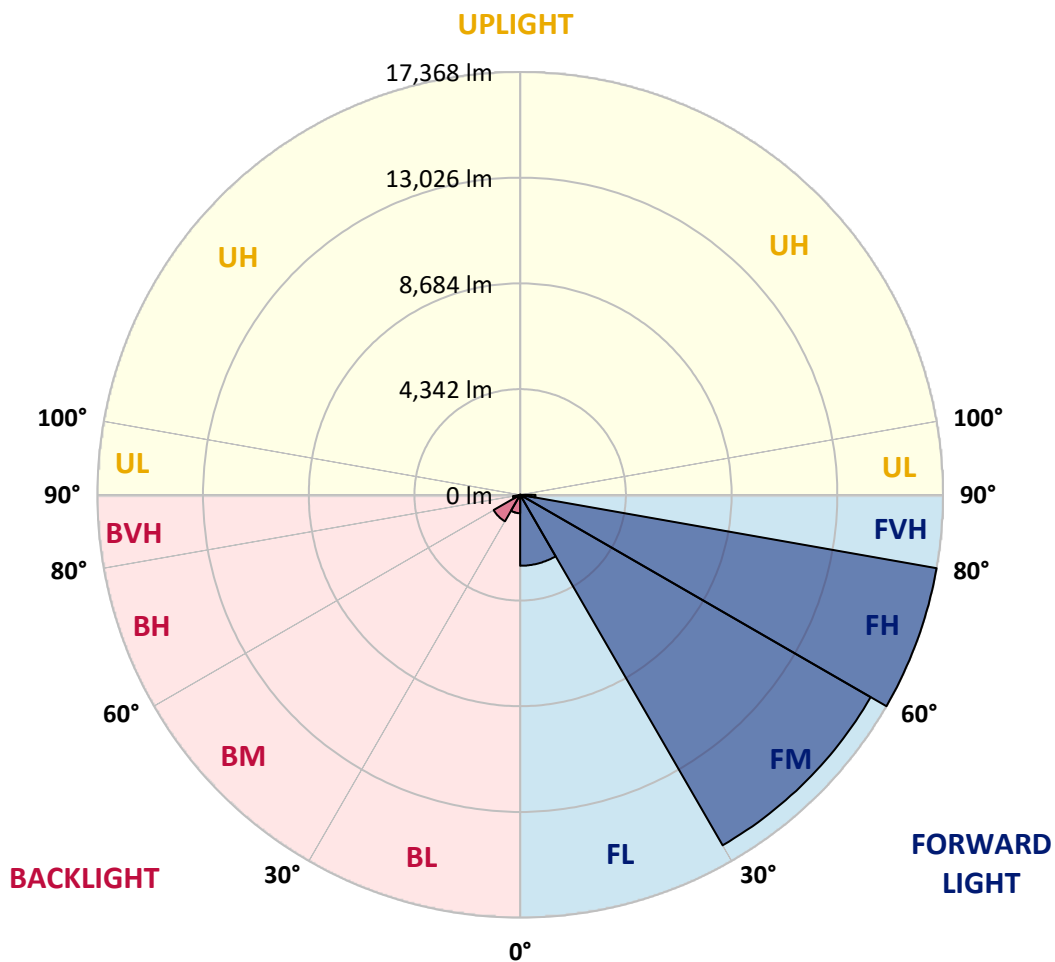
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2915.4	7.3			
FM	(30°-60°)	16622.1	41.7			
FH	(60°-80°)	17367.7	43.6			G5
FVH	(80°-90°)	629.4	1.6			G4/750
BL	(0°-30°)	755.5	1.9	B2/1000		
BM	(30°-60°)	1253.6	3.1	B2/2500		
BH	(60°-80°)	302.9	0.8	B1/500		G1/500
BVH	(80°-90°)	20.4	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°	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3
2.5°	6540.1	6504.5	6483.2	6454.7	6419.1	6388.2	6376.4	6288.6	6205.5	6091.6	5961.1
5°	6661.1	6649.3	6611.3	6573.3	6530.6	6483.2	6457.1	6352.6	6234.0	6067.9	5840.1
7.5°	6673.0	6658.8	6611.3	6559.1	6499.8	6442.8	6397.7	6293.3	6184.2	6015.7	5738.0
10°	6654.0	6637.4	6601.8	6544.9	6471.3	6416.7	6371.6	6272.0	6179.4	6027.5	5719.0
12.5°	6632.7	6616.0	6599.4	6571.0	6506.9	6468.9	6431.0	6336.0	6253.0	6124.8	5787.9
15°	6654.0	6644.5	6663.5	6651.6	6616.0	6582.8	6544.9	6459.4	6383.5	6276.7	5913.6
17.5°	6744.2	6744.2	6803.5	6810.6	6777.4	6730.0	6675.4	6589.9	6525.9	6435.7	6063.1
20°	6955.4	6948.3	7024.2	7038.5	6957.8	6884.2	6803.5	6699.1	6649.3	6592.3	6210.3
22.5°	7318.5	7285.2	7330.3	7316.1	7157.1	7043.2	6943.5	6815.4	6789.3	6763.2	6374.0
25°	7790.7	7771.7	7802.6	7662.6	7382.5	7228.3	7109.6	6964.9	6964.9	6991.0	6559.1
27.5°	8476.5	8405.3	8300.9	8054.1	7634.1	7437.1	7309.0	7154.7	7195.1	7292.4	6803.5
30°	9178.9	9100.6	8860.9	8481.3	7940.2	7733.8	7584.3	7422.9	7517.8	7695.8	7131.0
32.5°	9871.9	9784.1	9444.7	8965.4	8379.2	8172.8	8028.0	7850.0	8009.0	8308.0	7610.4
35°	10543.4	10465.1	10073.6	9508.8	8963.0	8792.1	8659.2	8505.0	8709.1	9126.7	8286.7
37.5°	11298.1	11212.6	10735.7	10123.4	9672.5	9549.1	9451.8	9297.6	9653.5	10265.8	9228.8
40°	12225.9	12081.2	11438.1	10828.2	10493.6	10434.3	10367.8	10346.5	10899.4	11746.6	10484.1
42.5°	13289.1	13051.7	12173.7	11571.0	11395.4	11438.1	11421.5	11516.4	12458.5	13588.1	12012.4
45°	14352.2	14046.1	12992.4	12363.6	12387.3	12536.8	12629.3	13009.0	14411.5	15700.1	13656.9
47.5°	15253.9	14952.6	13777.9	13220.2	13505.0	13799.3	14050.8	14769.8	16419.1	17778.9	14935.9
50°	16025.2	15740.4	14610.8	14162.3	14803.1	15277.7	15685.8	16751.3	18578.6	19361.7	15833.0
52.5°	16656.4	16466.6	15474.6	15242.1	16286.2	16981.5	17579.5	18856.2	20491.2	20647.9	16530.6
55°	17271.0	17135.8	16402.5	16525.9	18028.0	18974.9	19731.9	21089.2	22138.1	21720.5	17199.8
57.5°	17978.2	17854.8	17460.9	18153.8	20318.0	21509.3	22335.1	23068.4	23588.1	22816.8	17831.1
60°	18699.6	18628.4	18637.9	19962.1	22947.3	24091.1	24546.8	24736.6	25011.9	23849.1	17866.7
62.5°	19387.8	19523.0	19983.4	21974.4	25465.1	26343.2	26573.4	26760.8	26438.1	24012.8	16506.9
65°	20552.9	20773.6	21872.4	24667.8	28234.5	29174.2	29411.5	28768.4	26663.5	21896.1	13426.7
67.5°	21122.5	21525.9	23486.0	27178.5	30920.8	31964.9	31877.1	28898.9	23927.4	16696.7	8616.5
69°	21003.8	21433.3	23858.6	27947.3	31813.0	32759.9	32202.2	27301.9	20384.5	12095.4	5289.5
70°	20534.0	20968.2	23666.4	27918.9	31926.9	32676.8	31599.5	25329.9	17235.4	8844.3	3308.0
72.5°	17147.6	17522.6	21010.9	25235.0	29411.5	28801.6	26435.7	17548.7	8398.2	2408.6	745.1
75°	10555.3	10764.1	15076.0	19010.5	22214.1	20647.9	17612.7	8730.4	2503.6	681.1	412.9
77.5°	5576.7	5671.6	8253.4	11205.5	14081.6	11651.6	9027.1	3405.3	1153.3	427.1	299.0
80°	3296.2	3367.4	4444.7	5123.4	6094.0	5090.2	3609.4	2090.7	825.8	268.2	265.8
82.5°	1886.6	1931.7	3222.6	2847.7	2401.5	2050.3	1796.4	1981.5	496.0	180.4	275.3
85°	692.9	702.4	1813.0	2166.6	1428.6	849.6	892.3	1642.1	132.9	113.9	215.9
87.5°	322.7	315.6	932.6	1326.5	835.3	538.7	695.3	360.7	52.2	73.6	59.3
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°	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3	5956.3
2.5°	5885.2	5797.3	5638.4	5474.6	5308.5	5180.4	5054.6	4954.9	4921.7	4860.0	4864.7
5°	5704.8	5543.4	5211.2	4874.2	4523.0	4233.5	3960.6	3739.9	3633.1	3524.0	3524.0
7.5°	5548.2	5313.2	4793.6	4245.4	3678.2	3201.2	2771.7	2449.0	2271.0	2128.6	2126.2
10°	5488.9	5170.9	4444.7	3659.2	2869.0	2218.8	1708.6	1381.1	1212.6	1103.5	1098.7
12.5°	5515.0	5121.0	4176.6	3118.2	2126.2	1426.2	989.6	778.4	707.2	673.9	673.9
15°	5590.9	5106.8	3908.4	2589.0	1502.1	892.3	657.3	600.4	595.6	595.6	595.6
17.5°	5683.4	5111.5	3633.1	2074.0	1022.8	638.3	567.2	560.0	564.8	564.8	564.8
20°	5778.4	5113.9	3336.5	1597.1	721.4	555.3	533.9	531.6	536.3	536.3	538.7
22.5°	5894.6	5125.8	3039.9	1193.6	595.6	524.4	507.8	507.8	510.2	510.2	507.8
25°	6027.5	5149.5	2731.4	885.1	543.4	503.1	488.8	486.5	488.8	486.5	484.1
27.5°	6193.6	5182.7	2387.3	692.9	519.7	481.7	469.9	469.9	467.5	465.1	462.7
30°	6402.5	5220.7	2000.5	588.5	496.0	462.7	450.9	448.5	446.1	441.4	441.4
32.5°	6720.5	5303.8	1618.4	533.9	469.9	436.6	427.1	427.1	422.4	417.7	415.3
35°	7209.3	5467.5	1276.7	500.7	441.4	408.2	396.3	396.3	391.6	389.2	386.8
37.5°	7885.6	5716.7	991.9	469.9	412.9	377.3	365.4	363.1	358.3	353.6	351.2
40°	8785.0	6025.2	780.7	441.4	384.4	346.5	337.0	332.2	322.7	315.6	315.6
42.5°	9914.6	6376.4	633.6	410.5	351.2	318.0	310.9	303.7	287.1	280.0	277.6
45°	11096.4	6692.0	536.3	374.9	318.0	289.5	284.8	272.9	251.5	244.4	244.4
47.5°	11948.3	6765.6	472.2	341.7	287.1	258.7	256.3	234.9	215.9	211.2	208.8
50°	12479.8	6620.8	420.0	308.5	258.7	230.2	223.1	197.0	185.1	180.4	178.0
52.5°	12838.2	6362.1	377.3	280.0	232.6	204.1	187.5	168.5	159.0	154.2	154.2
55°	13125.3	5996.7	334.6	253.9	211.2	182.7	159.0	144.8	135.3	130.5	130.5
57.5°	13206.0	5500.7	291.9	232.6	189.8	161.4	135.3	125.8	113.9	111.5	111.5
60°	12619.9	4606.1	258.7	206.5	170.9	140.0	118.7	106.8	94.9	92.5	90.2
62.5°	11075.0	3564.3	227.8	182.7	149.5	121.0	102.0	87.8	78.3	78.3	78.3
65°	8448.0	2389.7	199.3	159.0	130.5	102.0	87.8	71.2	66.4	66.4	68.8
67.5°	5057.0	1300.4	170.9	135.3	111.5	85.4	73.6	61.7	59.3	61.7	61.7
69°	2963.9	764.1	154.2	121.0	97.3	75.9	64.1	54.6	59.3	61.7	61.7
70°	1829.6	515.0	142.4	109.2	87.8	68.8	59.3	52.2	57.0	59.3	59.3
72.5°	510.2	265.8	113.9	85.4	71.2	57.0	47.5	47.5	54.6	57.0	57.0
75°	332.2	197.0	87.8	64.1	54.6	45.1	40.3	45.1	52.2	54.6	54.6
77.5°	275.3	161.4	71.2	52.2	45.1	42.7	38.0	40.3	47.5	49.8	49.8
80°	251.5	113.9	57.0	47.5	40.3	38.0	35.6	33.2	42.7	45.1	45.1
82.5°	239.7	90.2	49.8	42.7	38.0	33.2	30.8	33.2	38.0	40.3	42.7
85°	149.5	59.3	45.1	40.3	33.2	30.8	30.8	30.8	35.6	38.0	38.0
87.5°	54.6	47.5	40.3	33.2	28.5	28.5	28.5	28.5	30.8	35.6	35.6
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)