

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: P300885

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300885
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
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K 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: 45171.1 lumens
Efficiency: N/A
Efficacy: 101.5 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

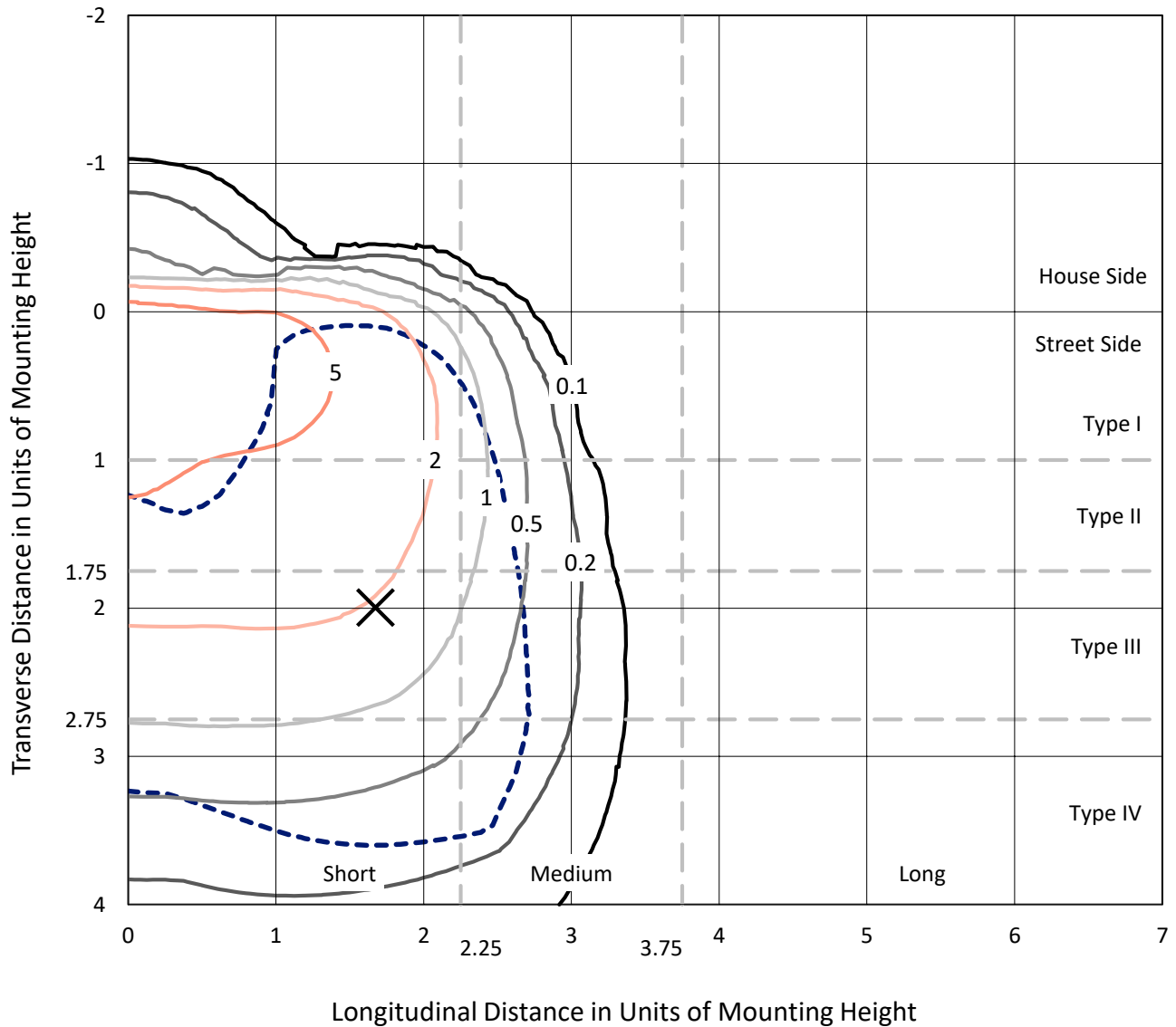
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

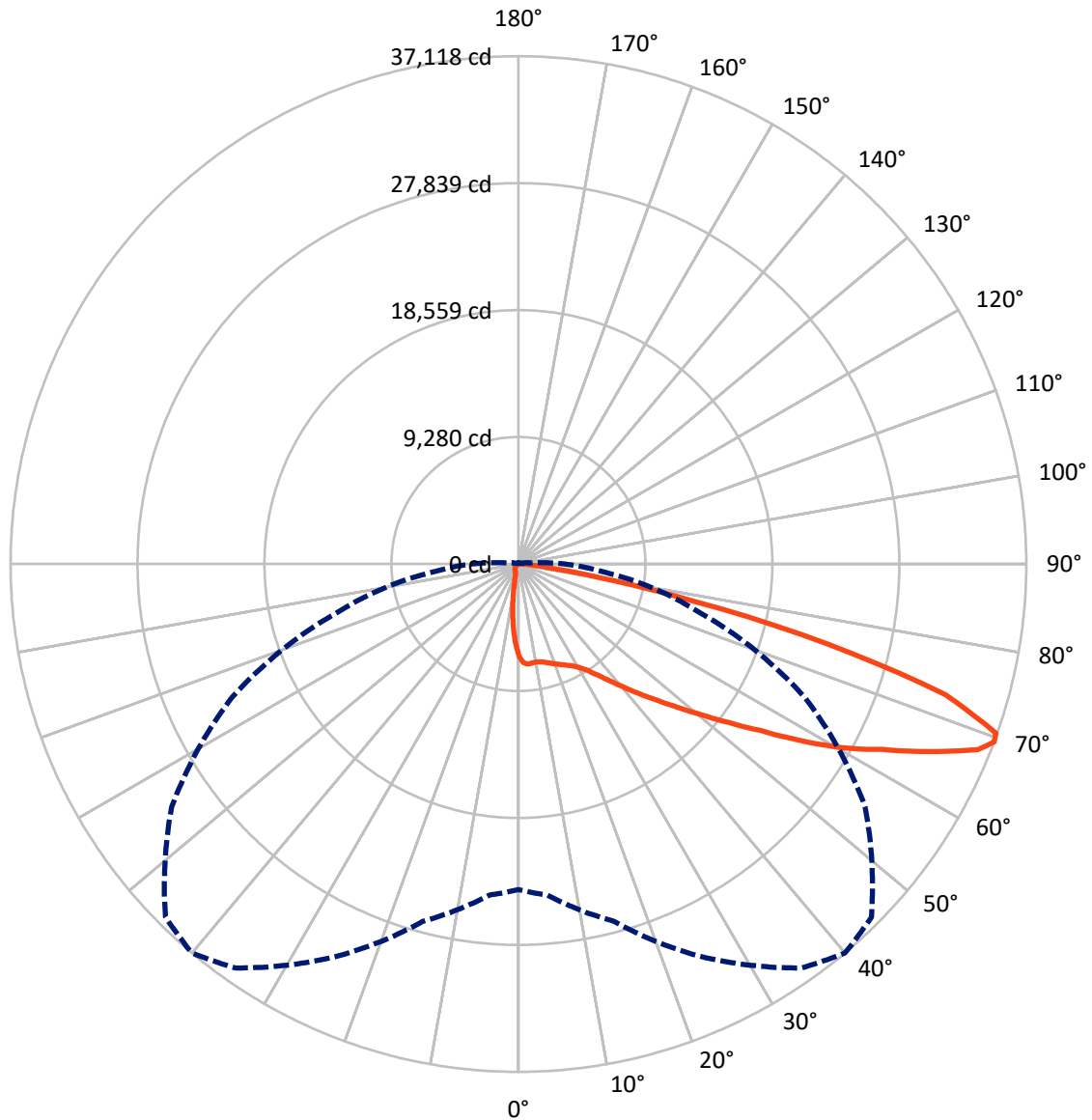


Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Semi-Cutoff

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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	2642.8	0.0	2642.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	42528.4	0.0	42528.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	45171.1	0.0	45171.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.2	1.2
10°-20°	1345.6	3.0
20°-30°	2266.5	5.0
30°-40°	3710.4	8.2
40°-50°	6424.4	14.2
50°-60°	10119.1	22.4
60°-70°	13215.2	29.3
70°-80°	6806.4	15.1
80°-90°	736.3	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°	45171.1	100.0
0°-180°	45171.1	100.0

Coefficient of Utilization



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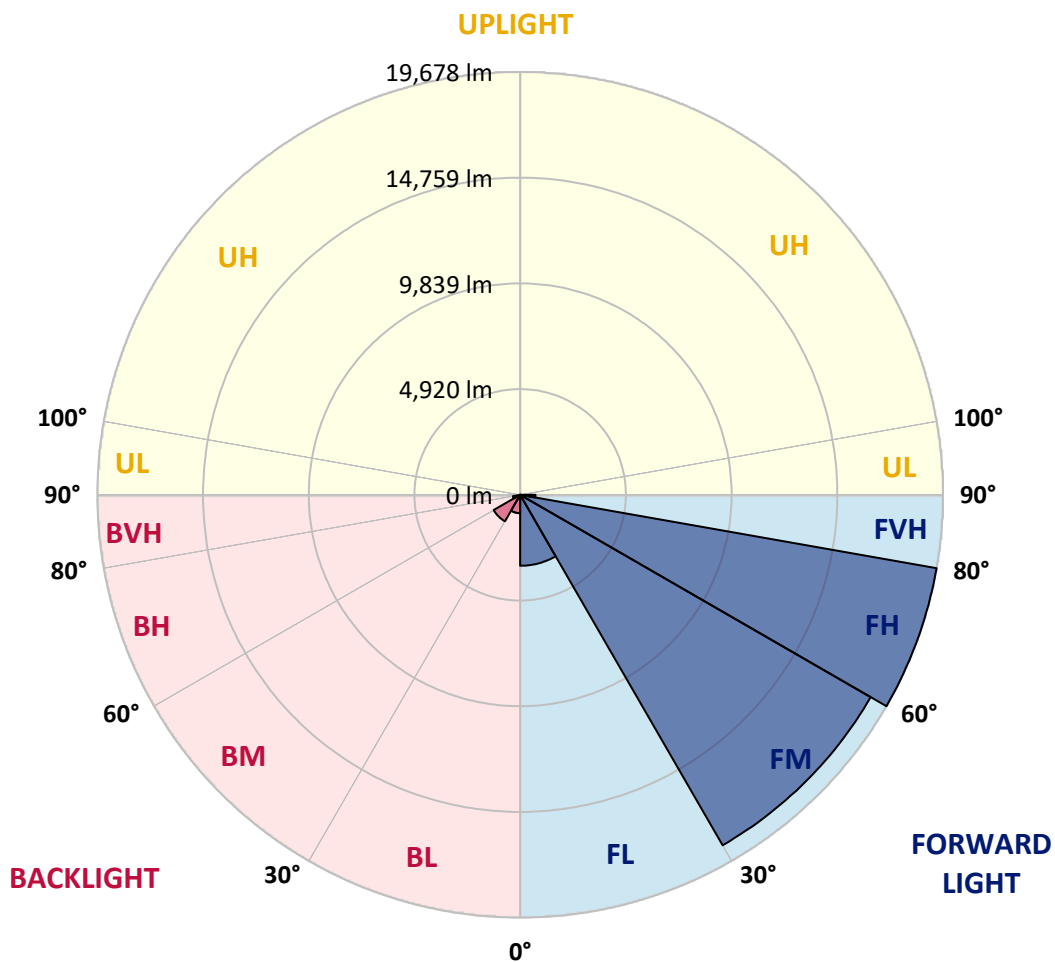
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3303.3	7.3			
FM (30°-60°)	18833.5	41.7			
FH (60°-80°)	19678.4	43.6			G5
FVH (80°-90°)	713.1	1.6			G4/750
BL (0°-30°)	856.1	1.9	B2/1000		
BM (30°-60°)	1420.4	3.1	B2/2500		
BH (60°-80°)	343.2	0.8	B1/500		G1/500
BVH (80°-90°)	23.1	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°	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8
2.5°	7410.2	7369.9	7345.7	7313.4	7273.1	7238.2	7224.7	7125.2	7031.1	6902.1	6754.2
5°	7547.4	7533.9	7490.9	7447.9	7399.5	7345.7	7316.1	7197.8	7063.4	6875.2	6617.1
7.5°	7560.8	7544.7	7490.9	7431.7	7364.5	7300.0	7248.9	7130.6	7006.9	6816.0	6501.4
10°	7539.3	7520.5	7480.1	7415.6	7332.3	7270.4	7219.3	7106.4	7001.5	6829.5	6479.9
12.5°	7515.1	7496.3	7477.5	7445.2	7372.6	7329.6	7286.6	7179.0	7084.9	6939.7	6557.9
15°	7539.3	7528.5	7550.1	7536.6	7496.3	7458.6	7415.6	7318.8	7232.8	7111.8	6700.4
17.5°	7641.5	7641.5	7708.7	7716.8	7679.1	7625.3	7563.5	7466.7	7394.1	7291.9	6869.8
20°	7880.8	7872.7	7958.7	7974.9	7883.5	7800.1	7708.7	7590.4	7533.9	7469.4	7036.5
22.5°	8292.2	8254.5	8305.6	8289.5	8109.3	7980.3	7867.3	7722.1	7692.6	7663.0	7222.0
25°	8827.2	8805.7	8840.7	8682.0	8364.7	8190.0	8055.5	7891.5	7891.5	7921.1	7431.7
27.5°	9604.3	9523.6	9405.3	9125.7	8649.8	8426.6	8281.4	8106.6	8152.3	8262.6	7708.7
30°	10400.1	10311.4	10039.8	9609.6	8996.6	8762.7	8593.3	8410.5	8518.0	8719.7	8079.7
32.5°	11185.3	11085.8	10701.3	10158.2	9494.0	9260.1	9096.1	8894.4	9074.6	9413.4	8622.9
35°	11946.2	11857.5	11413.8	10773.9	10155.5	9961.9	9811.3	9636.5	9867.8	10341.0	9389.2
37.5°	12801.2	12704.4	12164.0	11470.3	10959.4	10819.6	10709.4	10534.6	10937.9	11631.6	10456.6
40°	13852.5	13688.5	12959.8	12268.8	11889.7	11822.5	11747.2	11723.0	12349.5	13309.4	11879.0
42.5°	15057.1	14788.2	13793.4	13110.4	12911.5	12959.8	12941.0	13048.6	14116.0	15395.9	13610.5
45°	16261.7	15914.8	14721.0	14008.5	14035.4	14204.7	14309.6	14739.8	16328.9	17788.9	15473.8
47.5°	17283.4	16941.9	15611.0	14979.1	15301.8	15635.2	15920.2	16734.9	18603.6	20144.2	16923.1
50°	18157.2	17834.6	16554.7	16046.6	16772.5	17310.3	17772.7	18980.0	21050.3	21937.6	17939.4
52.5°	18872.4	18657.3	17533.4	17269.9	18453.0	19240.8	19918.4	21364.9	23217.5	23394.9	18729.9
55°	19568.8	19415.6	18584.7	18724.6	20426.5	21499.4	22357.1	23895.1	25083.5	24610.3	19488.2
57.5°	20370.1	20230.3	19783.9	20569.1	23021.2	24371.0	25306.7	26137.5	26726.3	25852.5	20203.4
60°	21187.5	21106.8	21117.6	22617.9	26000.4	27296.3	27812.6	28027.7	28339.6	27022.1	20243.7
62.5°	21967.2	22120.5	22642.1	24898.0	28853.1	29848.0	30108.8	30321.2	29955.5	27207.6	18703.1
65°	23287.4	23537.5	24782.3	27949.7	31990.9	33055.7	33324.6	32595.9	30211.0	24809.2	15213.0
67.5°	23932.7	24389.8	26610.7	30794.4	35034.6	36217.7	36118.2	32743.8	27110.8	18918.2	9762.9
69°	23798.3	24284.9	27032.8	31665.6	36045.6	37118.4	36486.5	30934.2	23096.5	13704.6	5993.3
70°	23265.9	23757.9	26815.1	31633.3	36174.6	37024.3	35803.6	28699.9	19528.5	10021.0	3748.1
72.5°	19429.0	19853.8	23806.3	28592.3	33324.6	32633.5	29952.8	19883.4	9515.5	2729.1	844.3
75°	11959.6	12196.2	17081.7	21539.7	25169.5	23394.9	19956.0	9892.0	2836.6	771.7	467.8
77.5°	6318.6	6426.1	9351.5	12696.3	15955.1	13201.8	10228.1	3858.4	1306.7	484.0	338.8
80°	3734.7	3815.4	5036.1	5805.0	6904.7	5767.4	4089.6	2368.8	935.7	303.8	301.1
82.5°	2137.6	2188.7	3651.3	3226.5	2721.0	2323.1	2035.4	2245.1	562.0	204.3	311.9
85°	785.1	795.9	2054.2	2454.8	1618.6	962.6	1011.0	1860.6	150.6	129.1	244.7
87.5°	365.7	357.6	1056.7	1503.0	946.4	610.3	787.8	408.7	59.2	83.4	67.2
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°	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8	6748.8
2.5°	6668.1	6568.7	6388.5	6203.0	6014.8	5869.6	5727.1	5614.1	5576.5	5506.6	5512.0
5°	6463.8	6281.0	5904.5	5522.7	5124.8	4796.8	4487.5	4237.5	4116.5	3992.8	3992.8
7.5°	6286.3	6020.1	5431.3	4810.2	4167.6	3627.1	3140.5	2774.8	2573.1	2411.8	2409.1
10°	6219.1	5858.8	5036.1	4146.1	3250.7	2514.0	1935.9	1564.9	1374.0	1250.3	1244.9
12.5°	6248.7	5802.4	4732.2	3533.0	2409.1	1615.9	1121.2	881.9	801.3	763.6	763.6
15°	6334.7	5786.2	4428.4	2933.4	1702.0	1011.0	744.8	680.3	674.9	674.9	674.9
17.5°	6439.6	5791.6	4116.5	2350.0	1158.9	723.3	642.6	634.5	639.9	639.9	639.9
20°	6547.1	5794.3	3780.4	1809.5	817.4	629.2	605.0	602.3	607.7	607.7	610.3
22.5°	6678.9	5807.7	3444.3	1352.4	674.9	594.2	575.4	575.4	578.1	578.1	575.4
25°	6829.5	5834.6	3094.8	1002.9	615.7	570.0	553.9	551.2	553.9	551.2	548.5
27.5°	7017.7	5872.3	2704.9	785.1	588.8	545.8	532.4	532.4	529.7	527.0	524.3
30°	7254.3	5915.3	2266.6	666.8	562.0	524.3	510.9	508.2	505.5	500.1	500.1
32.5°	7614.6	6009.4	1833.7	605.0	532.4	494.7	484.0	484.0	478.6	473.2	470.5
35°	8168.5	6194.9	1446.6	567.3	500.1	462.5	449.0	449.0	443.6	441.0	438.3
37.5°	8934.8	6477.2	1123.9	532.4	467.8	427.5	414.1	411.4	406.0	400.6	397.9
40°	9953.8	6826.8	884.6	500.1	435.6	392.6	381.8	376.4	365.7	357.6	357.6
42.5°	11233.7	7224.7	717.9	465.2	397.9	360.3	352.2	344.2	325.3	317.3	314.6
45°	12572.7	7582.3	607.7	424.8	360.3	328.0	322.7	309.2	285.0	276.9	276.9
47.5°	13537.9	7665.7	535.1	387.2	325.3	293.1	290.4	266.2	244.7	239.3	236.6
50°	14140.2	7501.7	475.9	349.5	293.1	260.8	252.7	223.2	209.7	204.3	201.7
52.5°	14546.2	7208.6	427.5	317.3	263.5	231.2	212.4	190.9	180.1	174.8	174.8
55°	14871.6	6794.5	379.1	287.7	239.3	207.0	180.1	164.0	153.3	147.9	147.9
57.5°	14963.0	6232.6	330.7	263.5	215.1	182.8	153.3	142.5	129.1	126.4	126.4
60°	14298.9	5218.9	293.1	233.9	193.6	158.6	134.4	121.0	107.6	104.9	102.2
62.5°	12548.5	4038.5	258.1	207.0	169.4	137.1	115.6	99.5	88.7	88.7	88.7
65°	9572.0	2707.6	225.9	180.1	147.9	115.6	99.5	80.7	75.3	75.3	78.0
67.5°	5729.8	1473.4	193.6	153.3	126.4	96.8	83.4	69.9	67.2	69.9	69.9
69°	3358.3	865.8	174.8	137.1	110.2	86.0	72.6	61.8	67.2	69.9	69.9
70°	2073.0	583.5	161.3	123.7	99.5	78.0	67.2	59.2	64.5	67.2	67.2
72.5°	578.1	301.1	129.1	96.8	80.7	64.5	53.8	53.8	61.8	64.5	64.5
75°	376.4	223.2	99.5	72.6	61.8	51.1	45.7	51.1	59.2	61.8	61.8
77.5°	311.9	182.8	80.7	59.2	51.1	48.4	43.0	45.7	53.8	56.5	56.5
80°	285.0	129.1	64.5	53.8	45.7	43.0	40.3	37.6	48.4	51.1	51.1
82.5°	271.6	102.2	56.5	48.4	43.0	37.6	35.0	37.6	43.0	45.7	48.4
85°	169.4	67.2	51.1	45.7	37.6	35.0	35.0	35.0	40.3	43.0	43.0
87.5°	61.8	53.8	45.7	37.6	32.3	32.3	32.3	32.3	35.0	40.3	40.3
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)