

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: P299120

Luminaire Tested: **GLNA-AF-05-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299120
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-SL2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28093.4 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

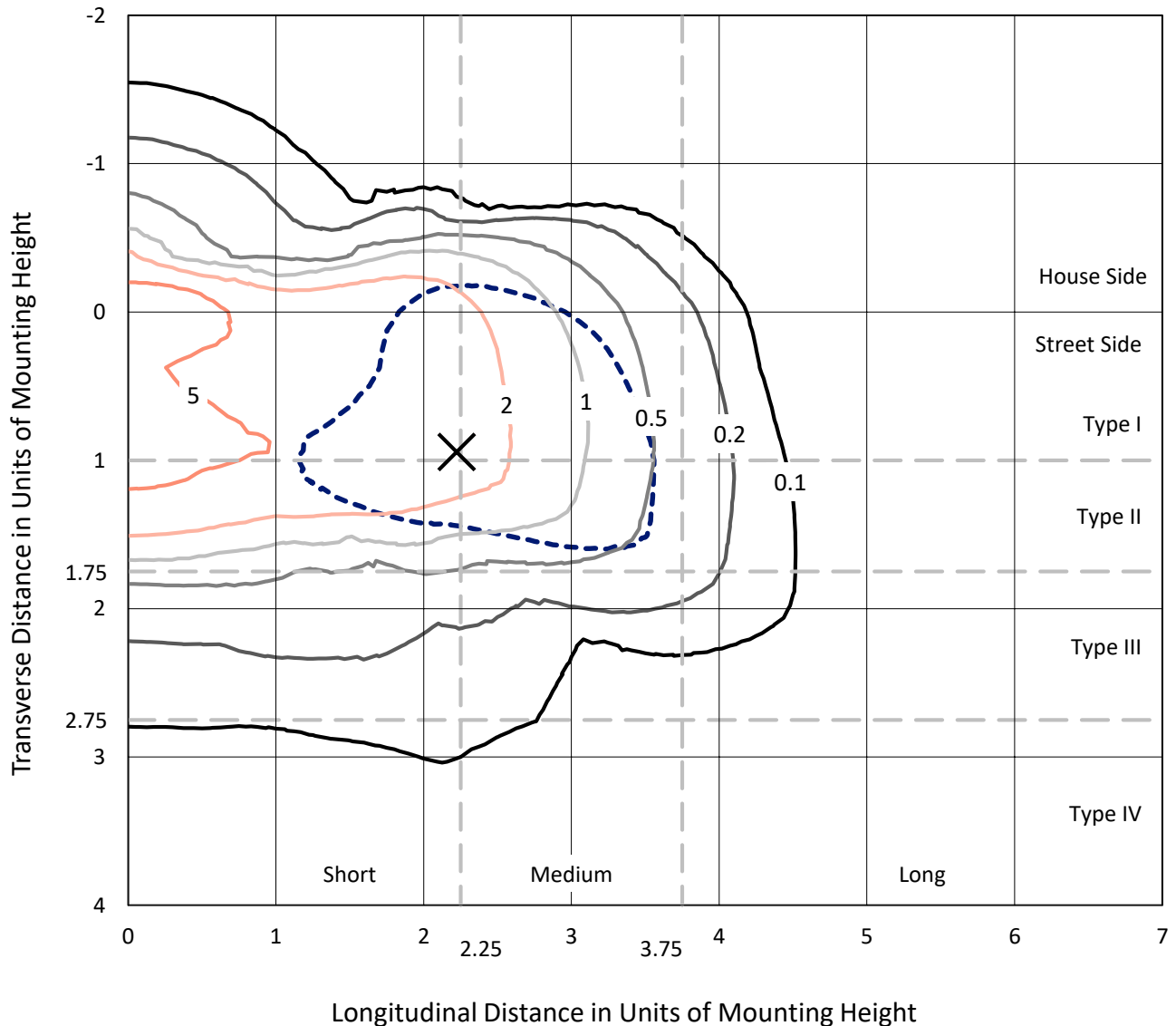
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

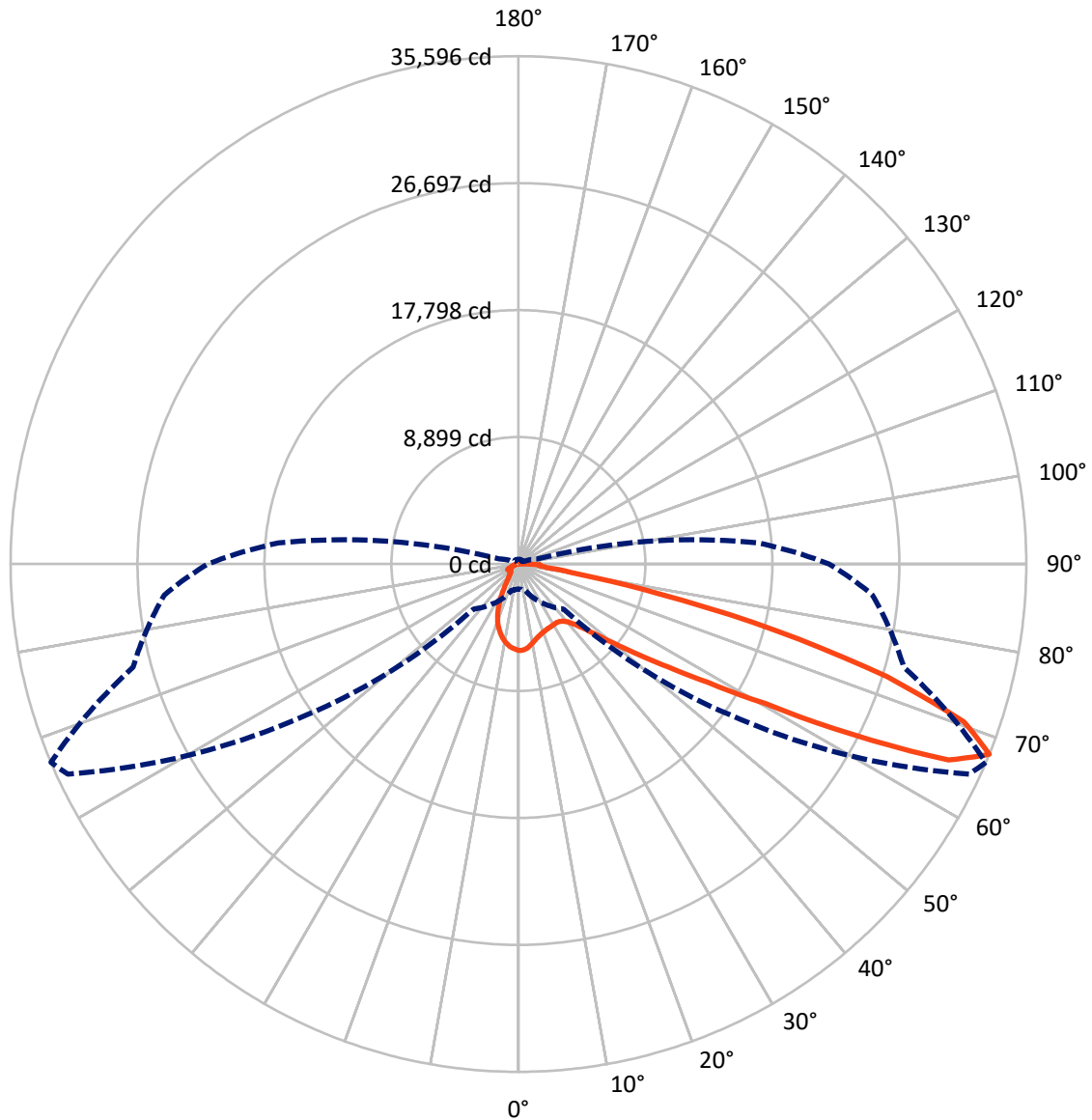
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4654.8	0.0	4654.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23438.6	0.0	23438.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	28093.4	0.0	28093.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.0	1.8
10°-20°	1196.2	4.3
20°-30°	1621.5	5.8
30°-40°	2305.1	8.2
40°-50°	3856.5	13.7
50°-60°	6101.0	21.7
60°-70°	7772.1	27.7
70°-80°	4071.0	14.5
80°-90°	652.9	2.3
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°	28093.4	100.0
0°-180°	28093.4	100.0



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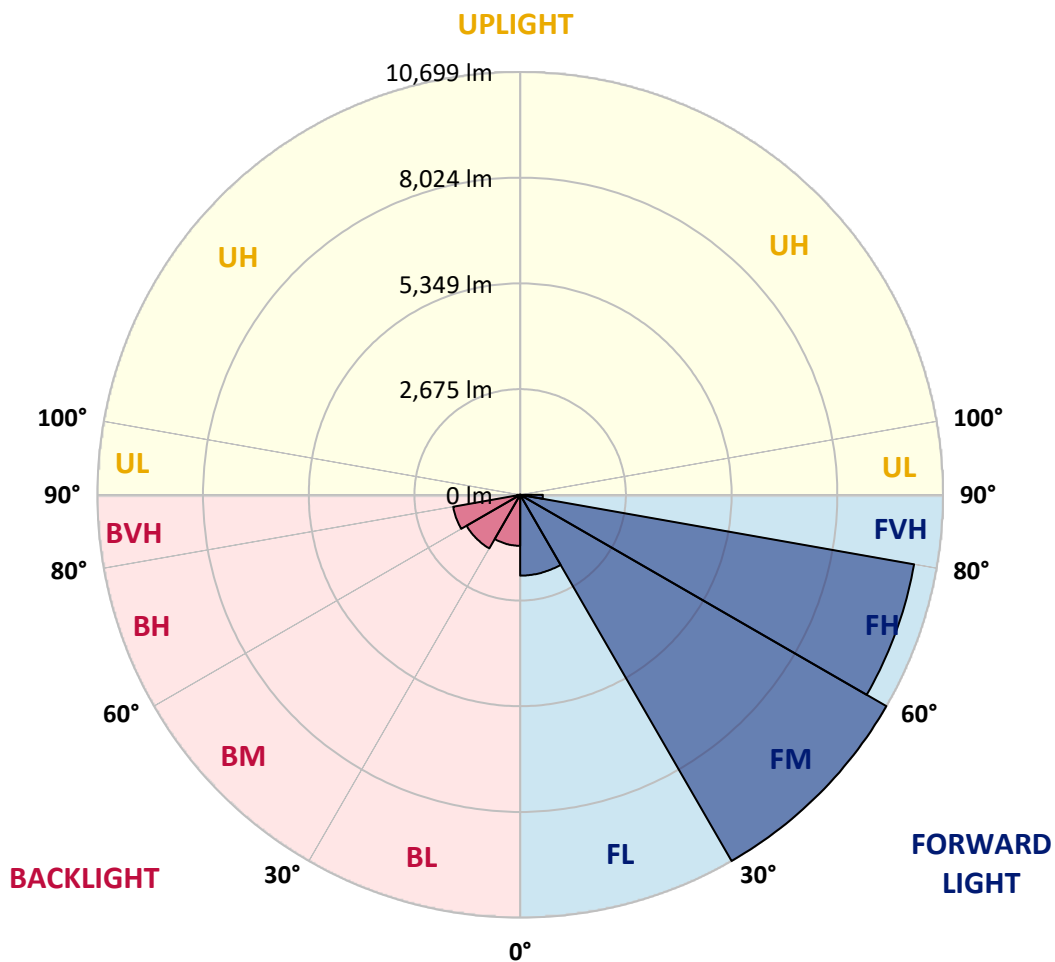
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2044.5	7.3			
FM	(30°-60°)	10698.6	38.1			
FH	(60°-80°)	10121.5	36.0			G4/12000
FVH	(80°-90°)	574.1	2.0			G4/750
BL	(0°-30°)	1290.2	4.6	B3/2500		
BM	(30°-60°)	1564.1	5.6	B2/2500		
BH	(60°-80°)	1721.6	6.1	B3/2500		G3/2500
BVH	(80°-90°)	78.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	5810.3	5820.0	5850.5	5869.9	5957.2	5994.6	6020.9	6047.2	6051.4	6063.8	6051.4
5°	5200.7	5221.5	5278.3	5342.1	5511.1	5644.1	5784.0	5929.5	5955.8	6050.0	6076.3
7.5°	4728.3	4722.8	4769.9	4846.1	5019.3	5203.5	5448.7	5738.3	5795.1	6007.0	6109.6
10°	4383.4	4379.2	4429.1	4508.0	4672.9	4847.5	5124.5	5520.8	5601.1	5939.2	6141.4
12.5°	4128.5	4129.8	4179.7	4267.0	4434.6	4610.6	4891.8	5310.2	5412.7	5860.2	6174.7
15°	3959.4	3970.5	4010.7	4103.5	4267.0	4442.9	4718.6	5152.3	5267.2	5797.8	6212.1
17.5°	3902.6	3920.6	3934.5	4002.4	4142.3	4318.3	4588.4	5035.9	5157.8	5754.9	6245.3
20°	3955.3	3976.1	3949.7	3973.3	4062.0	4217.1	4485.9	4944.4	5069.1	5706.4	6249.5
22.5°	4181.1	4200.5	4122.9	4055.0	4049.5	4143.7	4401.4	4872.4	5001.2	5670.4	6250.9
25°	4578.7	4591.2	4460.9	4303.0	4149.2	4117.4	4341.8	4822.5	4959.7	5638.5	6224.5
27.5°	5066.4	5076.1	4926.4	4693.7	4384.7	4179.7	4321.0	4793.4	4936.1	5610.8	6180.2
30°	5659.3	5705.0	5504.1	5210.4	4760.2	4364.0	4362.6	4778.2	4909.8	5563.7	6092.9
32.5°	6266.1	6285.5	6147.0	5849.1	5265.9	4688.1	4479.0	4789.3	4902.9	5506.9	5982.1
35°	6881.2	6906.2	6816.1	6576.4	5957.2	5163.3	4706.2	4854.4	4945.8	5487.5	5904.5
37.5°	7677.8	7711.1	7586.4	7309.3	6798.1	5807.5	5084.4	5017.9	5077.4	5542.9	5881.0
40°	8937.1	8921.9	8557.5	8144.7	7718.0	6631.8	5624.7	5294.9	5329.6	5721.6	5953.0
42.5°	10402.9	10365.5	9737.9	9089.5	8729.3	7629.3	6339.5	5775.7	5768.8	6073.5	6206.5
45°	11572.1	11541.7	10976.4	10177.1	9888.9	8765.3	7263.6	6491.9	6440.7	6631.8	6674.8
47.5°	12205.3	12206.6	11881.1	11228.6	11221.6	10208.9	8450.9	7528.2	7439.5	7529.6	7483.9
50°	11983.6	12012.7	11978.1	11770.2	12438.0	12101.4	10001.1	8973.2	8794.4	8883.1	8707.2
52.5°	10911.3	10948.7	11153.8	11472.4	12949.2	14388.6	12278.7	10768.6	10560.8	10528.9	10333.6
55°	9010.6	9056.3	9474.7	10340.5	12523.9	15925.0	15872.4	13057.3	12726.2	12425.5	12342.4
57.5°	6210.7	6286.9	6960.2	8245.8	11148.2	16389.1	20151.8	16319.9	15646.6	14596.4	14615.8
60°	3500.9	3589.5	4383.4	5551.2	8371.9	15884.8	23407.5	21261.5	19840.1	17138.6	17282.7
62.5°	2226.3	2321.9	2924.6	3856.9	5023.4	13169.5	24741.6	28131.7	26326.5	20272.4	20413.7
65°	1802.4	1844.0	2128.0	3183.6	3647.7	7934.1	23728.9	33791.0	33117.7	24249.8	23590.4
67.5°	1759.4	1773.3	1920.1	2672.4	3498.1	4459.6	18927.2	34849.4	35596.1	27964.0	24913.4
70°	1738.7	1787.1	2164.0	2550.5	3349.9	3761.3	11374.0	31948.4	33127.4	28935.2	23152.6
72.5°	843.7	840.9	1088.9	2306.7	3773.8	3901.2	5843.6	25849.9	27033.1	25068.6	19025.5
75°	680.2	622.0	594.3	845.1	3628.3	4028.7	3723.9	17787.0	18643.2	16807.5	11695.4
77.5°	645.6	576.3	527.8	529.2	1533.6	4272.5	3154.5	9844.6	10093.9	7591.9	3204.4
80°	534.8	471.0	436.4	491.8	742.6	4068.9	3410.8	4455.4	4088.3	1864.7	1066.7
82.5°	371.3	338.0	328.3	412.8	594.3	2899.6	3966.4	2393.9	2007.4	933.8	658.1
85°	236.9	202.3	224.4	300.6	462.7	1338.3	4085.5	1866.1	1483.7	592.9	371.3
87.5°	109.4	88.7	110.8	166.2	302.0	461.3	3887.4	2096.1	1528.1	313.1	234.1
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°	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7	6059.7
2.5°	6062.5	6036.1	6015.4	5976.6	5933.6	5892.1	5854.6	5807.5	5793.7	5781.2	5800.6
5°	6081.8	6055.5	5979.3	5860.2	5728.6	5605.3	5482.0	5376.7	5311.6	5275.6	5296.3
7.5°	6110.9	6073.5	5915.6	5696.7	5459.8	5243.7	5020.6	4841.9	4710.3	4648.0	4666.0
10°	6137.3	6065.2	5807.5	5479.2	5132.9	4811.4	4459.6	4168.6	3952.5	3838.9	3866.6
12.5°	6148.3	6033.4	5656.5	5207.7	4732.5	4261.5	3743.3	3308.3	2998.0	2884.4	2860.8
15°	6159.4	5997.3	5490.3	4898.7	4249.0	3582.6	2856.7	2335.8	2078.1	2021.3	2008.8
17.5°	6162.2	5935.0	5301.9	4563.5	3682.4	2774.9	1953.4	1622.3	1623.7	1715.1	1726.2
20°	6133.1	5842.2	5073.3	4146.5	3003.5	1918.8	1341.1	1284.3	1493.4	1722.0	1749.7
22.5°	6066.6	5718.9	4814.2	3660.2	2226.3	1263.5	1037.7	1100.0	1370.1	1650.0	1681.9
25°	5982.1	5569.3	4508.0	3096.3	1474.1	903.3	870.0	946.2	1129.1	1316.1	1334.1
27.5°	5867.1	5391.9	4164.5	2450.7	957.3	744.0	766.1	817.4	892.2	975.3	983.6
30°	5718.9	5180.0	3797.3	1787.1	723.2	669.1	701.0	728.7	760.6	807.7	811.8
32.5°	5548.5	4976.3	3420.5	1234.4	641.4	630.4	655.3	669.1	694.1	723.2	725.9
35°	5405.8	4782.4	3029.8	872.8	606.8	601.3	617.9	623.4	647.0	678.8	681.6
37.5°	5324.0	4624.4	2626.7	703.8	583.2	574.9	584.6	584.6	617.9	665.0	671.9
40°	5329.6	4537.1	2223.5	635.9	563.9	552.8	554.2	554.2	597.1	648.4	652.5
42.5°	5480.6	4559.3	1866.1	609.6	548.6	536.1	529.2	533.4	569.4	602.6	605.4
45°	5835.3	4715.9	1530.9	592.9	533.4	529.2	514.0	512.6	526.4	541.7	541.7
47.5°	6417.1	5024.8	1303.6	581.9	520.9	519.5	501.5	483.5	482.1	487.7	487.7
50°	7363.3	5556.8	1151.3	569.4	512.6	501.5	480.7	453.0	443.3	447.5	447.5
52.5°	8782.0	6505.8	1093.1	552.8	494.6	476.6	453.0	425.3	417.0	418.4	418.4
55°	10642.5	7963.2	1084.8	533.4	475.2	446.1	426.7	405.9	396.2	399.0	399.0
57.5°	12916.0	9978.9	1233.0	502.9	448.9	415.6	404.5	390.7	383.8	387.9	386.5
60°	15679.8	12616.7	1828.7	471.0	422.5	387.9	387.9	376.8	371.3	375.4	374.1
62.5°	18863.4	15646.6	2571.3	447.5	394.8	365.7	371.3	365.7	360.2	363.0	361.6
65°	21686.8	17620.7	2407.8	429.5	367.1	345.0	354.7	351.9	347.7	350.5	349.1
67.5°	21768.6	16889.3	1352.1	410.1	340.8	324.2	338.0	336.6	333.9	336.6	335.3
70°	19427.3	14261.2	762.0	374.1	313.1	299.2	318.6	317.3	314.5	320.0	318.6
72.5°	15564.8	10348.8	556.9	329.7	285.4	272.9	295.1	293.7	293.7	302.0	297.9
75°	8956.5	5325.4	444.7	282.6	256.3	246.6	266.0	267.4	270.2	281.2	272.9
77.5°	2553.3	1659.7	363.0	239.7	220.3	216.1	235.5	238.3	239.7	252.1	241.1
80°	949.0	764.7	299.2	200.9	180.1	181.5	199.5	203.7	205.0	217.5	203.7
82.5°	605.4	504.3	242.4	155.2	141.3	139.9	162.1	167.6	167.6	169.0	160.7
85°	353.3	302.0	182.9	112.2	99.7	95.6	120.5	130.2	126.1	123.3	117.8
87.5°	236.9	207.8	112.2	62.3	54.0	51.3	70.7	77.6	74.8	70.7	66.5
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)