

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: P299249

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299249
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-06-LED-E1-SL2-7050-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22896 lumens
Efficiency: N/A
Efficacy: 118.6 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

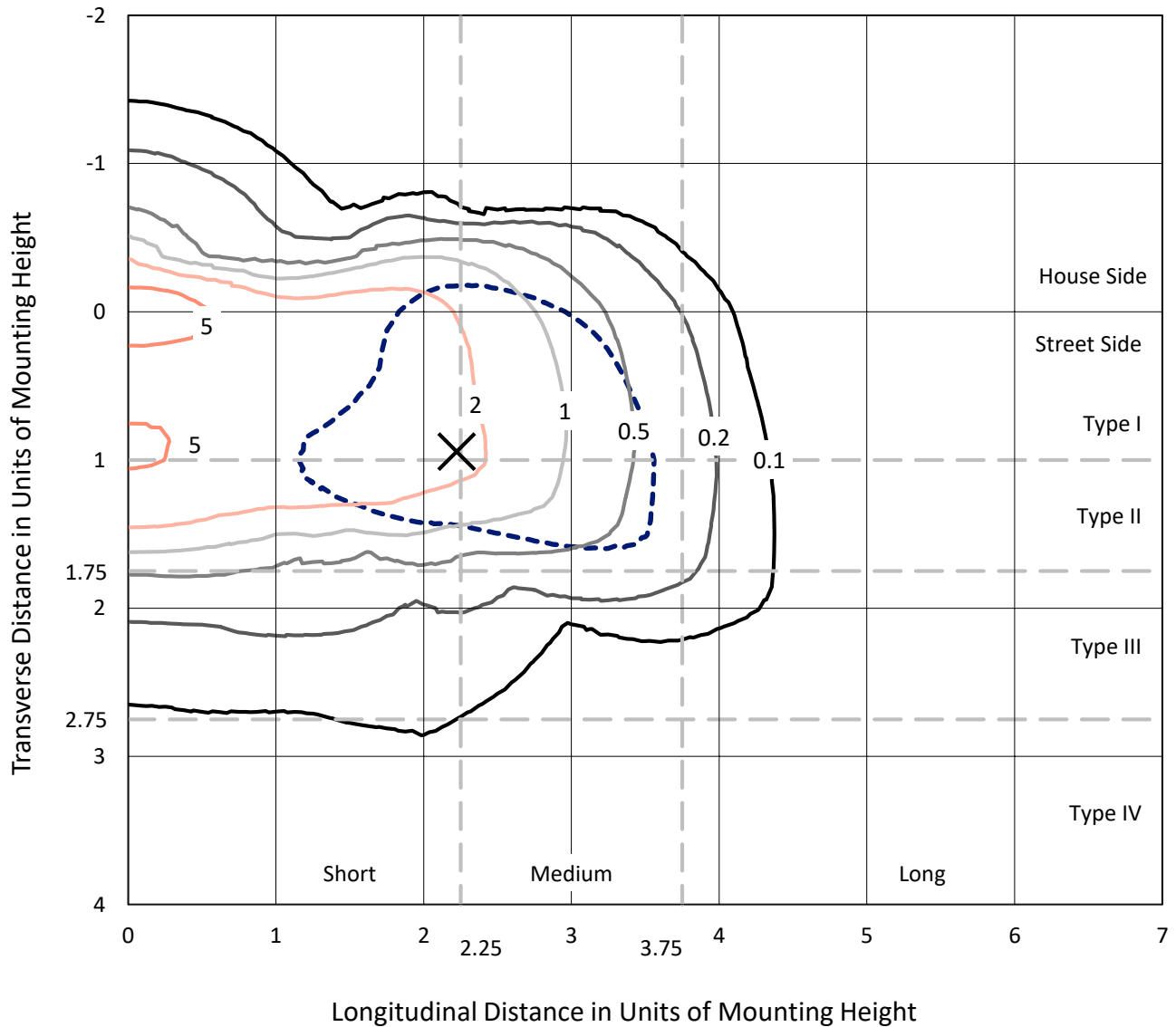
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

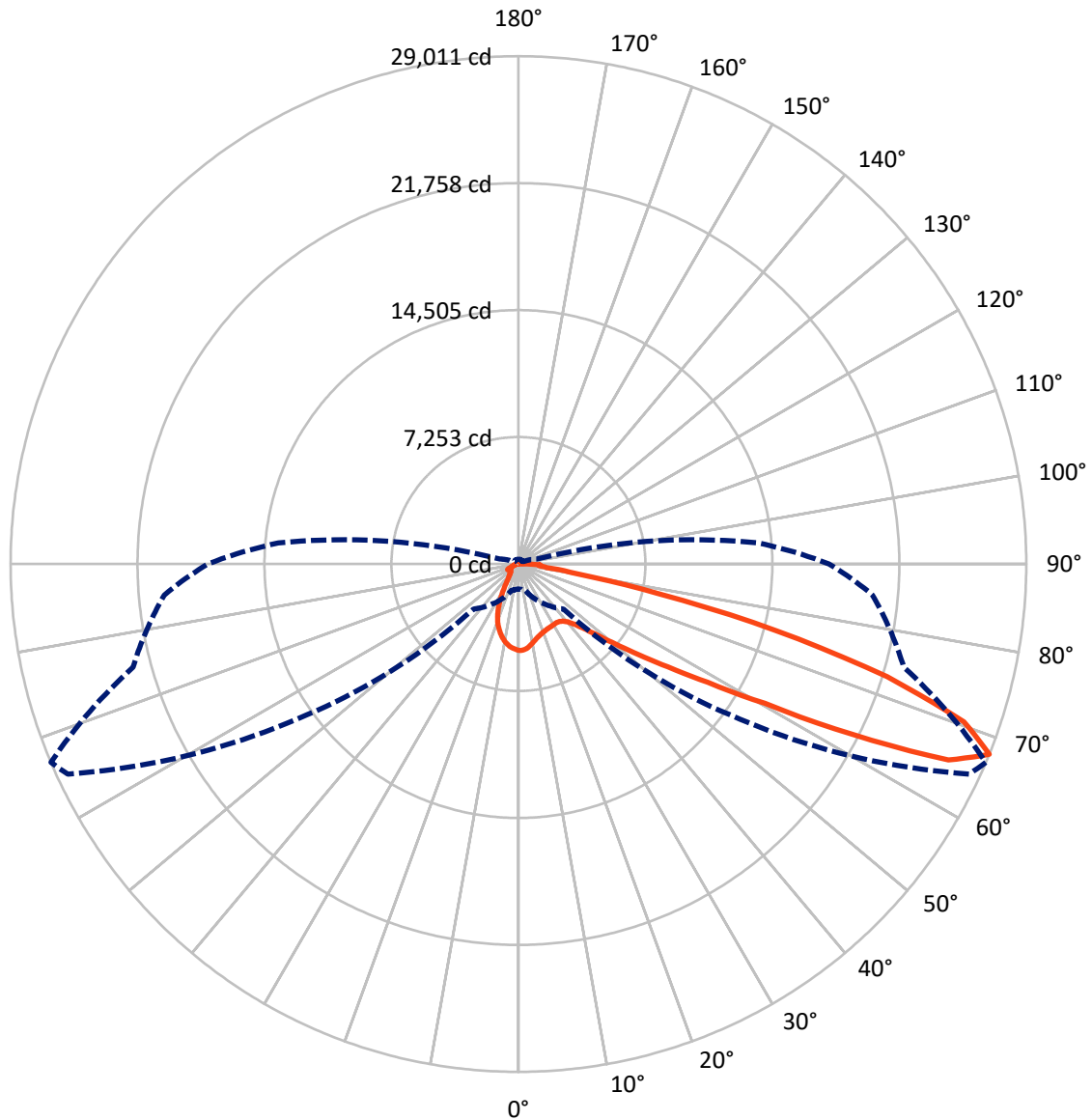
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	3793.6	0.0	3793.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19102.4	0.0	19102.4
	% Fixture	83.4	0.0	83.4
Total	Lumens	22896.0	0.0	22896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.3	1.8
10°-20°	974.9	4.3
20°-30°	1321.5	5.8
30°-40°	1878.7	8.2
40°-50°	3143.1	13.7
50°-60°	4972.3	21.7
60°-70°	6334.2	27.7
70°-80°	3317.9	14.5
80°-90°	532.1	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°	22896.0	100.0
0°-180°	22896.0	100.0

Coefficient of Utilization



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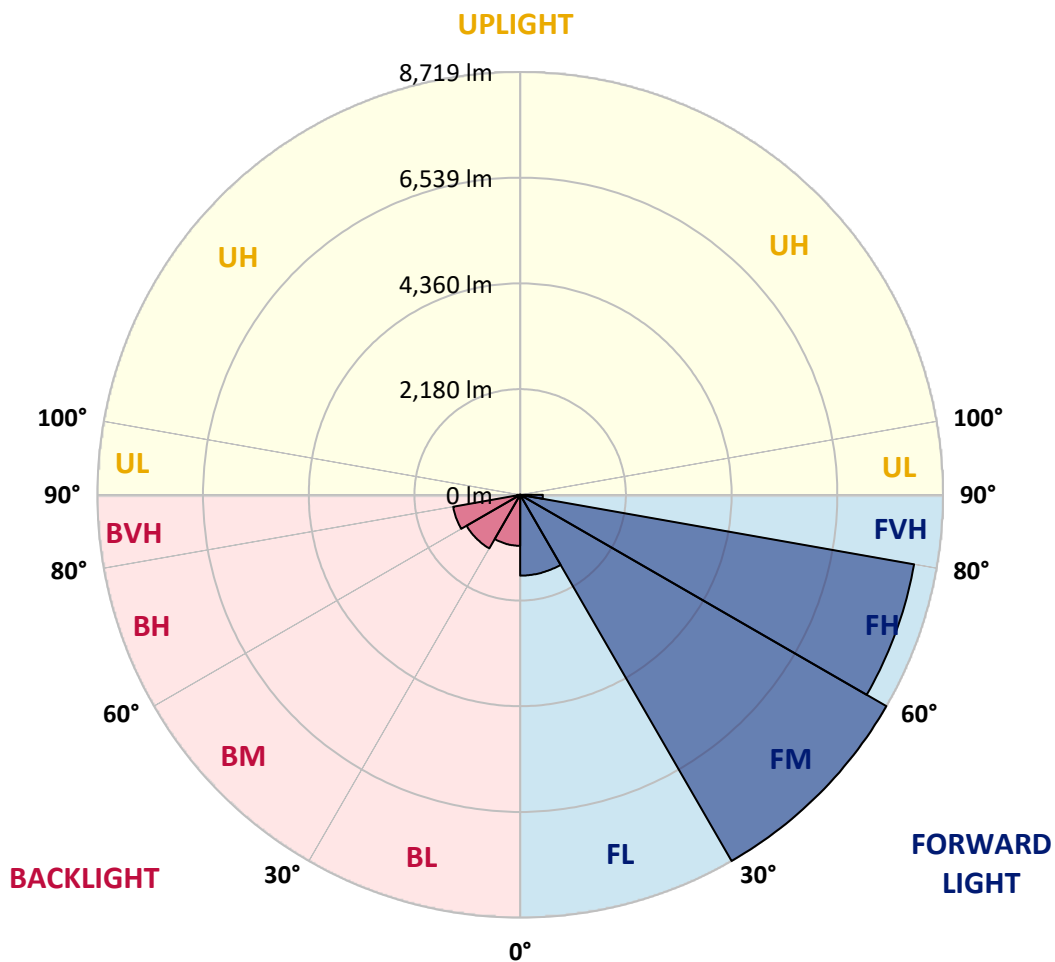
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.3	7.3			
FM (30°-60°)	8719.3	38.1			
FH (60°-80°)	8249.0	36.0			G4/12000
FVH (80°-90°)	467.9	2.0			G3/500
BL (0°-30°)	1051.5	4.6	B3/2500		
BM (30°-60°)	1274.8	5.6	B2/2500		
BH (60°-80°)	1403.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	64.2	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°	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6
2.5°	4735.4	4743.3	4768.1	4783.9	4855.1	4885.5	4907.0	4928.5	4931.8	4942.0	4931.8
5°	4238.6	4255.5	4301.8	4353.7	4491.5	4599.9	4713.9	4832.5	4853.9	4930.7	4952.2
7.5°	3853.6	3849.0	3887.4	3949.5	4090.7	4240.8	4440.7	4676.7	4723.0	4895.7	4979.3
10°	3572.4	3569.0	3609.7	3674.0	3808.4	3950.7	4176.5	4499.4	4564.9	4840.4	5005.2
12.5°	3364.7	3365.8	3406.4	3477.6	3614.2	3757.6	3986.8	4327.8	4411.3	4776.0	5032.3
15°	3226.9	3236.0	3268.7	3344.3	3477.6	3621.0	3845.7	4199.1	4292.8	4725.2	5062.8
17.5°	3180.6	3195.3	3206.6	3261.9	3376.0	3519.4	3739.5	4104.2	4203.6	4690.2	5089.9
20°	3223.5	3240.5	3219.0	3238.2	3310.5	3436.9	3656.0	4029.7	4131.3	4650.7	5093.3
22.5°	3407.6	3423.4	3360.2	3304.8	3300.3	3377.1	3587.1	3971.0	4076.0	4621.3	5094.4
25°	3731.6	3741.8	3635.6	3506.9	3381.6	3355.6	3538.5	3930.3	4042.1	4595.4	5073.0
27.5°	4129.1	4137.0	4015.0	3825.3	3573.5	3406.4	3521.6	3906.6	4022.9	4572.8	5036.8
30°	4612.3	4649.6	4485.8	4246.5	3879.5	3556.6	3555.5	3894.2	4001.5	4534.4	4965.7
32.5°	5106.8	5122.7	5009.7	4767.0	4291.6	3820.8	3650.3	3903.2	3995.8	4488.1	4875.4
35°	5608.2	5628.5	5555.1	5359.8	4855.1	4208.1	3835.5	3956.3	4030.8	4472.3	4812.2
37.5°	6257.4	6284.5	6182.9	5957.0	5540.4	4733.1	4143.7	4089.5	4138.1	4517.5	4793.0
40°	7283.7	7271.3	6974.3	6637.9	6290.1	5404.9	4584.1	4315.4	4343.6	4663.1	4851.7
42.5°	8478.3	8447.8	7936.3	7407.9	7114.4	6217.9	5166.7	4707.1	4701.5	4949.9	5058.3
45°	9431.2	9406.4	8945.7	8294.2	8059.4	7143.7	5919.8	5290.9	5249.1	5404.9	5439.9
47.5°	9947.2	9948.4	9683.0	9151.2	9145.6	8320.2	6887.4	6135.4	6063.2	6136.6	6099.3
50°	9766.6	9790.3	9762.1	9592.7	10136.9	9862.5	8150.9	7313.1	7167.4	7239.7	7096.3
52.5°	8892.7	8923.1	9090.3	9349.9	10553.5	11726.7	10007.1	8776.4	8607.0	8581.0	8421.8
55°	7343.6	7380.8	7721.8	8427.5	10206.9	12978.8	12935.9	10641.6	10371.8	10126.8	10059.0
57.5°	5061.7	5123.8	5672.5	6720.3	9085.7	13357.1	16423.7	13300.6	12751.9	11896.0	11911.8
60°	2853.2	2925.5	3572.4	4524.2	6823.1	12946.1	19077.0	17328.0	16169.6	13967.9	14085.3
62.5°	1814.4	1892.3	2383.5	3143.4	4094.1	10733.1	20164.3	22927.2	21456.0	16521.9	16637.0
65°	1468.9	1502.8	1734.3	2594.6	2972.9	6466.3	19338.9	27539.5	26990.7	19763.5	19226.0
67.5°	1433.9	1445.2	1564.9	2178.0	2850.9	3634.5	15425.5	28402.1	29010.7	22790.6	20304.3
70°	1417.0	1456.5	1763.6	2078.6	2730.1	3065.5	9269.8	26037.8	26998.6	23582.0	18869.2
72.5°	687.6	685.4	887.5	1879.9	3075.6	3179.5	4762.5	21067.6	22031.8	20430.8	15505.7
75°	554.4	507.0	484.4	688.7	2957.1	3283.4	3035.0	14496.3	15194.1	13698.0	9531.7
77.5°	526.2	469.7	430.2	431.3	1249.9	3482.1	2570.9	8023.3	8226.5	6187.4	2611.6
80°	435.8	383.9	355.7	400.8	605.2	3316.1	2779.8	3631.1	3331.9	1519.7	869.4
82.5°	302.6	275.5	267.6	336.5	484.4	2363.2	3232.6	1951.1	1636.0	761.0	536.3
85°	193.1	164.8	182.9	245.0	377.1	1090.7	3329.7	1520.9	1209.2	483.2	302.6
87.5°	89.2	72.3	90.3	135.5	246.1	376.0	3168.2	1708.3	1245.4	255.2	190.8
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°	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6	4938.6
2.5°	4940.9	4919.4	4902.5	4870.9	4835.9	4802.0	4771.5	4733.1	4721.8	4711.7	4727.5
5°	4956.7	4935.2	4873.1	4776.0	4668.8	4568.3	4467.8	4382.0	4328.9	4299.6	4316.5
7.5°	4980.4	4949.9	4821.2	4642.8	4449.7	4273.6	4091.8	3946.1	3838.9	3788.1	3802.8
10°	5001.8	4943.1	4733.1	4465.5	4183.3	3921.3	3634.5	3397.4	3221.3	3128.7	3151.3
12.5°	5010.9	4917.2	4610.0	4244.2	3856.9	3473.1	3050.8	2696.3	2443.3	2350.8	2331.6
15°	5019.9	4887.8	4474.6	3992.4	3462.9	2919.8	2328.2	1903.6	1693.6	1647.3	1637.2
17.5°	5022.2	4837.0	4321.0	3719.2	3001.1	2261.6	1592.0	1322.2	1323.3	1397.8	1406.8
20°	4998.5	4761.3	4134.7	3379.3	2447.9	1563.8	1093.0	1046.7	1217.2	1403.5	1426.0
22.5°	4944.3	4660.9	3923.6	2983.0	1814.4	1029.7	845.7	896.5	1116.7	1344.7	1370.7
25°	4875.4	4538.9	3674.0	2523.5	1201.3	736.2	709.1	771.2	920.2	1072.6	1087.3
27.5°	4781.7	4394.4	3394.0	1997.3	780.2	606.3	624.4	666.2	727.1	794.9	801.6
30°	4660.9	4221.6	3094.8	1456.5	589.4	545.3	571.3	593.9	619.9	658.3	661.6
32.5°	4522.0	4055.7	2787.7	1006.0	522.8	513.7	534.1	545.3	565.7	589.4	591.6
35°	4405.7	3897.6	2469.3	711.3	494.5	490.0	503.6	508.1	527.3	553.3	555.5
37.5°	4339.1	3768.9	2140.7	573.6	475.3	468.6	476.5	476.5	503.6	542.0	547.6
40°	4343.6	3697.7	1812.2	518.2	459.5	450.5	451.6	451.6	486.6	528.4	531.8
42.5°	4466.7	3715.8	1520.9	496.8	447.1	437.0	431.3	434.7	464.1	491.2	493.4
45°	4755.7	3843.4	1247.6	483.2	434.7	431.3	418.9	417.8	429.1	441.5	441.5
47.5°	5229.9	4095.2	1062.5	474.2	424.5	423.4	408.7	394.1	392.9	397.4	397.4
50°	6001.1	4528.8	938.3	464.1	417.8	408.7	391.8	369.2	361.3	364.7	364.7
52.5°	7157.3	5302.2	890.8	450.5	403.1	388.4	369.2	346.6	339.9	341.0	341.0
55°	8673.6	6490.0	884.1	434.7	387.3	363.6	347.8	330.8	322.9	325.2	325.2
57.5°	10526.4	8132.8	1004.9	409.9	365.8	338.7	329.7	318.4	312.8	316.1	315.0
60°	12779.0	10282.6	1490.4	383.9	344.4	316.1	316.1	307.1	302.6	306.0	304.9
62.5°	15373.6	12751.9	2095.6	364.7	321.8	298.1	302.6	298.1	293.6	295.8	294.7
65°	17674.7	14360.8	1962.3	350.0	299.2	281.1	289.0	286.8	283.4	285.7	284.5
67.5°	17741.3	13764.7	1102.0	334.2	277.8	264.2	275.5	274.4	272.1	274.4	273.2
70°	15833.1	11622.8	621.0	304.9	255.2	243.9	259.7	258.6	256.3	260.8	259.7
72.5°	12685.3	8434.3	453.9	268.7	232.6	222.4	240.5	239.4	239.4	246.1	242.8
75°	7299.5	4340.2	362.4	230.3	208.9	201.0	216.8	217.9	220.2	229.2	222.4
77.5°	2080.9	1352.6	295.8	195.3	179.5	176.1	191.9	194.2	195.3	205.5	196.5
80°	773.4	623.3	243.9	163.7	146.8	147.9	162.6	166.0	167.1	177.3	166.0
82.5°	493.4	411.0	197.6	126.5	115.2	114.0	132.1	136.6	136.6	137.7	131.0
85°	287.9	246.1	149.0	91.5	81.3	77.9	98.2	106.1	102.7	100.5	96.0
87.5°	193.1	169.4	91.5	50.8	44.0	41.8	57.6	63.2	61.0	57.6	54.2
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)