

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: P299125

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299125
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-SL2-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30197.4 lumens
Efficiency: N/A
Efficacy: 90.7 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

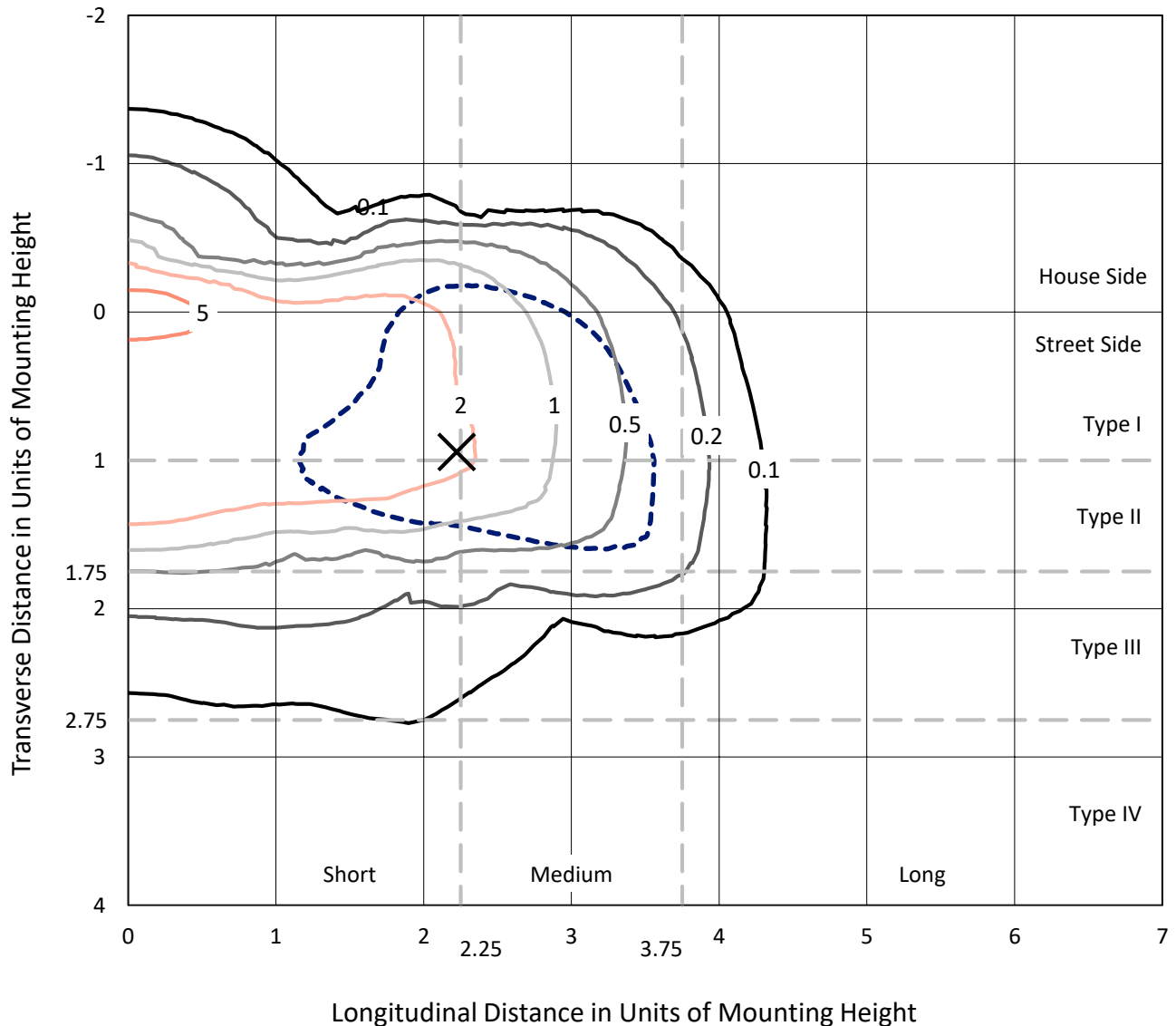
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

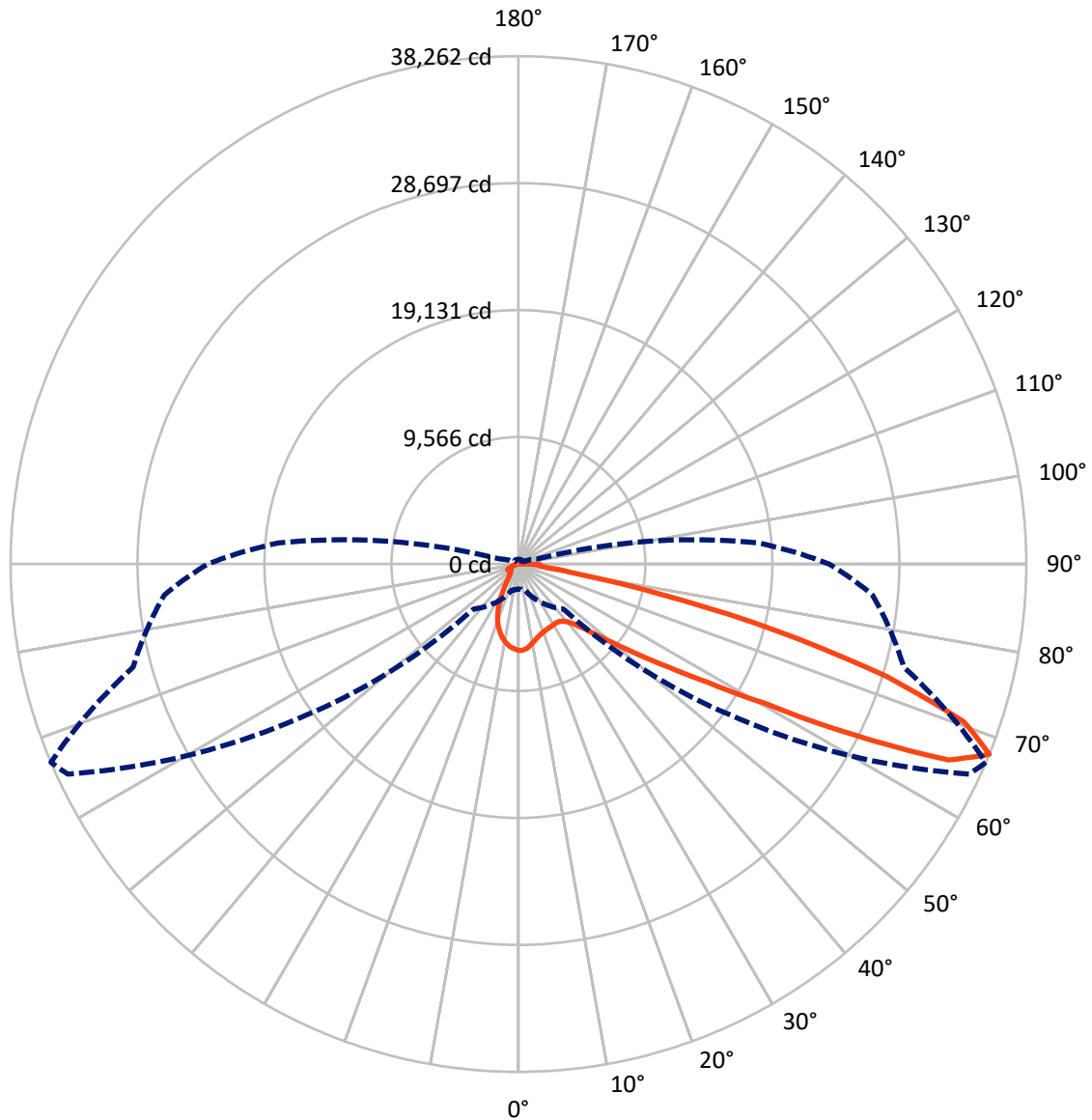
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type 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	5003.4	0.0	5003.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	25194.0	0.0	25194.0
	% Fixture	83.4	0.0	83.4
Total	Lumens	30197.4	0.0	30197.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.7	1.8
10°-20°	1285.8	4.3
20°-30°	1742.9	5.8
30°-40°	2477.7	8.2
40°-50°	4145.4	13.7
50°-60°	6557.9	21.7
60°-70°	8354.2	27.7
70°-80°	4375.9	14.5
80°-90°	701.8	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°	30197.4	100.0
0°-180°	30197.4	100.0



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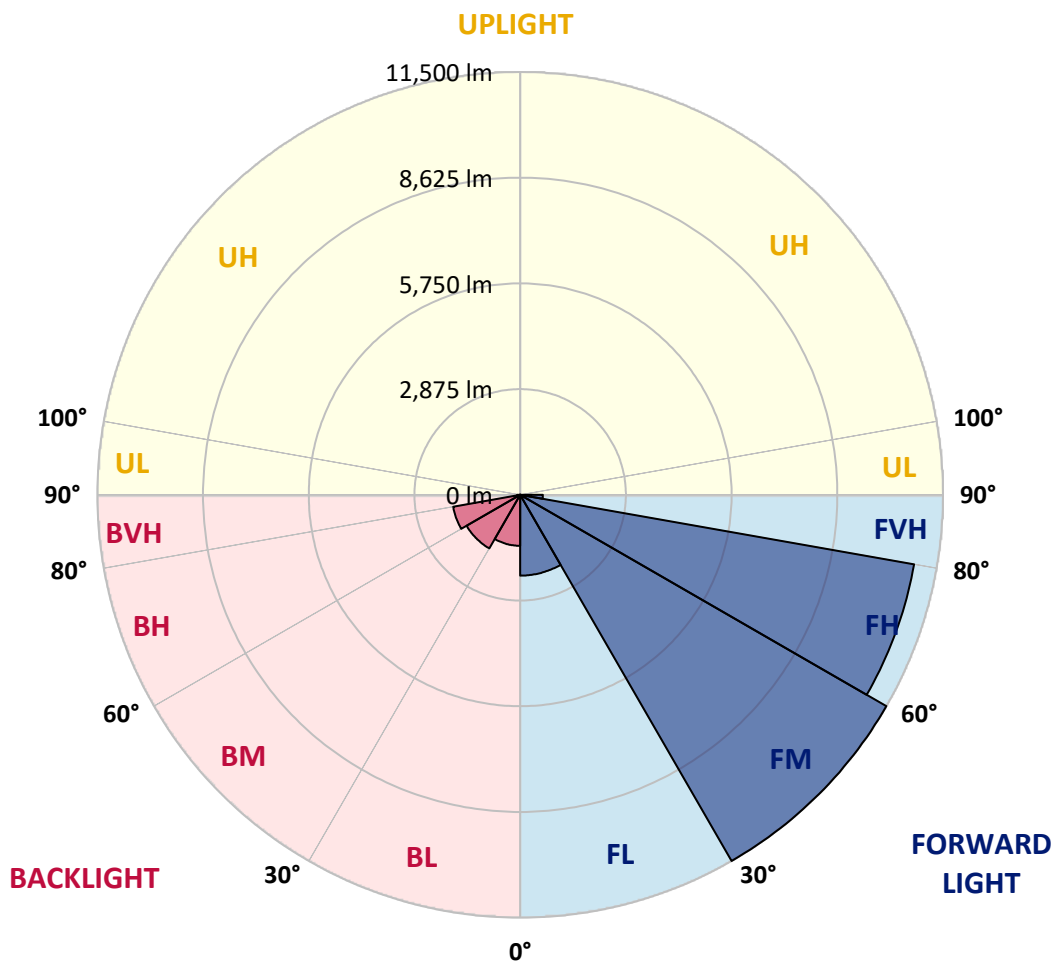
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.6	7.3			
FM (30°-60°)	11499.8	38.1			
FH (60°-80°)	10879.5	36.0			G4/12000
FVH (80°-90°)	617.1	2.0			G4/750
BL (0°-30°)	1386.8	4.6	B3/2500		
BM (30°-60°)	1681.3	5.6	B2/2500		
BH (60°-80°)	1850.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	84.7	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°	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5
2.5°	6245.5	6255.9	6288.6	6309.5	6403.3	6443.5	6471.8	6500.1	6504.6	6518.0	6504.6
5°	5590.2	5612.6	5673.6	5742.1	5923.8	6066.8	6217.2	6373.5	6401.8	6503.1	6531.4
7.5°	5082.4	5076.5	5127.1	5209.0	5395.2	5593.2	5856.8	6168.0	6229.1	6456.9	6567.1
10°	4711.6	4707.2	4760.8	4845.7	5022.9	5210.5	5508.3	5934.2	6020.6	6383.9	6601.4
12.5°	4437.6	4439.1	4492.7	4586.6	4766.7	4955.9	5258.2	5707.9	5818.1	6299.1	6637.1
15°	4256.0	4267.9	4311.1	4410.8	4586.6	4775.7	5072.0	5538.1	5661.7	6232.1	6677.3
17.5°	4194.9	4214.3	4229.2	4302.1	4452.5	4641.6	4932.0	5413.0	5544.1	6185.9	6713.0
20°	4251.5	4273.8	4245.5	4270.9	4366.2	4532.9	4821.8	5314.7	5448.8	6133.8	6717.5
22.5°	4494.2	4515.1	4431.7	4358.7	4352.8	4454.0	4731.0	5237.3	5375.8	6095.1	6719.0
25°	4921.6	4935.0	4795.0	4625.3	4460.0	4425.7	4667.0	5183.7	5331.1	6060.8	6690.7
27.5°	5445.8	5456.2	5295.4	5045.2	4713.1	4492.7	4644.6	5152.4	5305.8	6031.0	6643.1
30°	6083.1	6132.3	5916.4	5600.7	5116.7	4690.8	4689.3	5136.0	5277.5	5980.4	6549.2
32.5°	6735.4	6756.2	6607.3	6287.1	5660.2	5039.2	4814.4	5148.0	5270.1	5919.3	6430.1
35°	7396.6	7423.4	7326.6	7068.9	6403.3	5550.0	5058.6	5217.9	5316.2	5898.5	6346.7
37.5°	8252.8	8288.6	8154.5	7856.7	7307.2	6242.5	5465.1	5393.7	5457.7	5958.0	6321.4
40°	9606.4	9590.1	9198.4	8754.7	8296.0	7128.5	6045.9	5691.5	5728.7	6150.1	6398.8
42.5°	11182.0	11141.7	10467.2	9770.2	9383.1	8200.7	6814.3	6208.2	6200.8	6528.4	6671.3
45°	12438.8	12406.0	11798.5	10939.2	10629.5	9421.8	7807.6	6978.1	6923.0	7128.5	7174.7
47.5°	13119.3	13120.8	12770.9	12069.5	12062.0	10973.5	9083.8	8092.0	7996.7	8093.5	8044.3
50°	12881.1	12912.3	12875.1	12651.7	13369.5	13007.6	10750.1	9645.2	9453.1	9548.4	9359.2
52.5°	11728.5	11768.7	11989.1	12331.6	13919.0	15466.2	13198.2	11575.1	11351.7	11317.5	11107.5
55°	9685.4	9734.5	10184.2	11114.9	13461.8	17117.7	17061.1	14035.1	13679.2	13356.1	13266.7
57.5°	6675.8	6757.7	7481.4	8863.4	11983.1	17616.5	21661.0	17542.1	16818.3	15689.6	15710.4
60°	3763.1	3858.4	4711.6	5967.0	8998.9	17074.5	25160.5	22853.8	21326.0	18422.2	18577.0
62.5°	2393.0	2495.8	3143.6	4145.8	5399.6	14155.8	26594.6	30238.5	28298.1	21790.6	21942.5
65°	1937.4	1982.0	2287.3	3422.0	3920.9	8528.3	25506.0	36321.6	35597.9	26065.9	25357.1
67.5°	1891.2	1906.1	2063.9	2872.6	3760.1	4793.5	20344.6	37459.3	38262.0	30058.3	26779.2
70°	1868.9	1921.0	2326.0	2741.5	3600.7	4043.0	12225.8	34341.1	35608.3	31102.2	24886.5
72.5°	906.9	903.9	1170.5	2479.4	4056.4	4193.4	6281.2	27785.9	29057.6	26946.0	20450.4
75°	731.2	668.6	638.8	908.4	3900.1	4330.4	4002.8	19119.1	20039.4	18066.2	12571.3
77.5°	693.9	619.5	567.4	568.9	1648.5	4592.5	3390.8	10581.8	10849.9	8160.5	3444.4
80°	574.8	506.3	469.1	528.6	798.2	4373.6	3666.3	4789.1	4394.5	2004.4	1146.6
82.5°	399.1	363.4	352.9	443.8	638.8	3116.8	4263.4	2573.2	2157.8	1003.7	707.3
85°	254.6	217.4	241.2	323.1	497.4	1438.5	4391.5	2005.9	1594.9	637.4	399.1
87.5°	117.6	95.3	119.1	178.7	324.6	495.9	4178.5	2253.1	1642.5	336.5	251.7
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°	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5	6513.5
2.5°	6516.5	6488.2	6465.8	6424.2	6378.0	6333.3	6293.1	6242.5	6227.6	6214.2	6235.0
5°	6537.3	6509.0	6427.1	6299.1	6157.6	6025.1	5892.5	5779.4	5709.4	5670.6	5693.0
7.5°	6568.6	6528.4	6358.6	6123.3	5868.7	5636.4	5396.6	5204.5	5063.1	4996.1	5015.4
10°	6596.9	6519.5	6242.5	5889.5	5517.3	5171.8	4793.5	4480.8	4248.5	4126.4	4156.2
12.5°	6608.8	6485.2	6080.2	5597.7	5086.9	4580.6	4023.7	3556.1	3222.5	3100.4	3075.1
15°	6620.7	6446.5	5901.5	5265.6	4567.2	3850.9	3070.6	2510.7	2233.7	2172.7	2159.3
17.5°	6623.7	6379.5	5698.9	4905.2	3958.1	2982.7	2099.7	1743.8	1745.3	1843.6	1855.5
20°	6592.4	6279.7	5453.2	4457.0	3228.5	2062.5	1441.5	1380.4	1605.3	1851.0	1880.8
22.5°	6520.9	6147.2	5174.8	3934.3	2393.0	1358.1	1115.4	1182.4	1472.8	1773.6	1807.8
25°	6430.1	5986.3	4845.7	3328.2	1584.4	970.9	935.2	1017.1	1213.6	1414.7	1434.0
27.5°	6306.5	5795.7	4476.4	2634.3	1029.0	799.7	823.5	878.6	959.0	1048.4	1057.3
30°	6147.2	5567.9	4081.7	1921.0	777.3	719.3	753.5	783.3	817.5	868.2	872.6
32.5°	5964.0	5349.0	3676.7	1326.8	689.5	677.6	704.4	719.3	746.1	777.3	780.3
35°	5810.6	5140.5	3256.7	938.2	652.2	646.3	664.2	670.1	695.4	729.7	732.7
37.5°	5722.8	4970.7	2823.4	756.5	626.9	618.0	628.4	628.4	664.2	714.8	722.2
40°	5728.7	4876.9	2390.1	683.5	606.1	594.2	595.7	595.7	641.8	696.9	701.4
42.5°	5891.0	4900.8	2005.9	655.2	589.7	576.3	568.9	573.3	612.0	647.8	650.8
45°	6272.3	5069.0	1645.5	637.4	573.3	568.9	552.5	551.0	565.9	582.3	582.3
47.5°	6897.7	5401.1	1401.3	625.4	559.9	558.4	539.1	519.7	518.2	524.2	524.2
50°	7914.8	5972.9	1237.5	612.0	551.0	539.1	516.7	486.9	476.5	481.0	481.0
52.5°	9439.7	6993.0	1174.9	594.2	531.6	512.3	486.9	457.2	448.2	449.7	449.7
55°	11439.6	8559.6	1166.0	573.3	510.8	479.5	458.7	436.3	425.9	428.9	428.9
57.5°	13883.3	10726.3	1325.3	540.6	482.5	446.7	434.8	419.9	412.5	417.0	415.5
60°	16854.1	13561.6	1965.7	506.3	454.2	417.0	417.0	405.0	399.1	403.6	402.1
62.5°	20276.1	16818.3	2763.8	481.0	424.4	393.1	399.1	393.1	387.2	390.2	388.7
65°	23311.0	18940.4	2588.1	461.6	394.6	370.8	381.2	378.2	373.8	376.8	375.3
67.5°	23398.9	18154.1	1453.4	440.8	366.3	348.5	363.4	361.9	358.9	361.9	360.4
70°	20882.2	15329.2	819.0	402.1	336.5	321.7	342.5	341.0	338.0	344.0	342.5
72.5°	16730.5	11123.9	598.6	354.4	306.8	293.4	317.2	315.7	315.7	324.6	320.2
75°	9627.3	5724.3	478.0	303.8	275.5	265.1	285.9	287.4	290.4	302.3	293.4
77.5°	2744.5	1784.0	390.2	257.6	236.8	232.3	253.2	256.1	257.6	271.0	259.1
80°	1020.1	822.0	321.7	215.9	193.6	195.1	214.4	218.9	220.4	233.8	218.9
82.5°	650.8	542.0	260.6	166.8	151.9	150.4	174.2	180.2	180.2	181.7	172.7
85°	379.7	324.6	196.6	120.6	107.2	102.8	129.6	140.0	135.5	132.5	126.6
87.5°	254.6	223.4	120.6	67.0	58.1	55.1	75.9	83.4	80.4	75.9	71.5
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)