

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: P299972

Luminaire Tested: **GLNA-AF-07-LED-E1-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26737.8 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

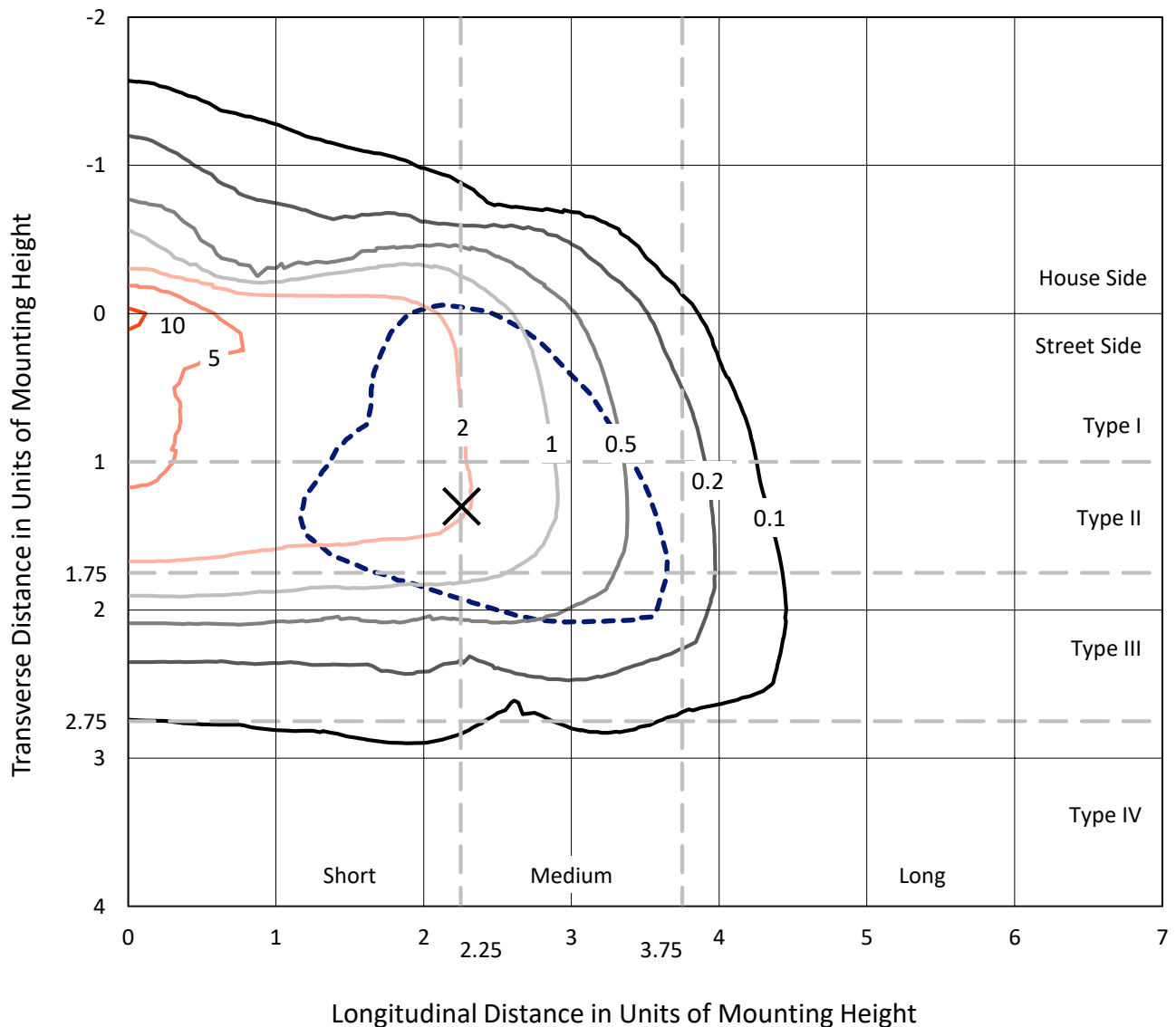
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

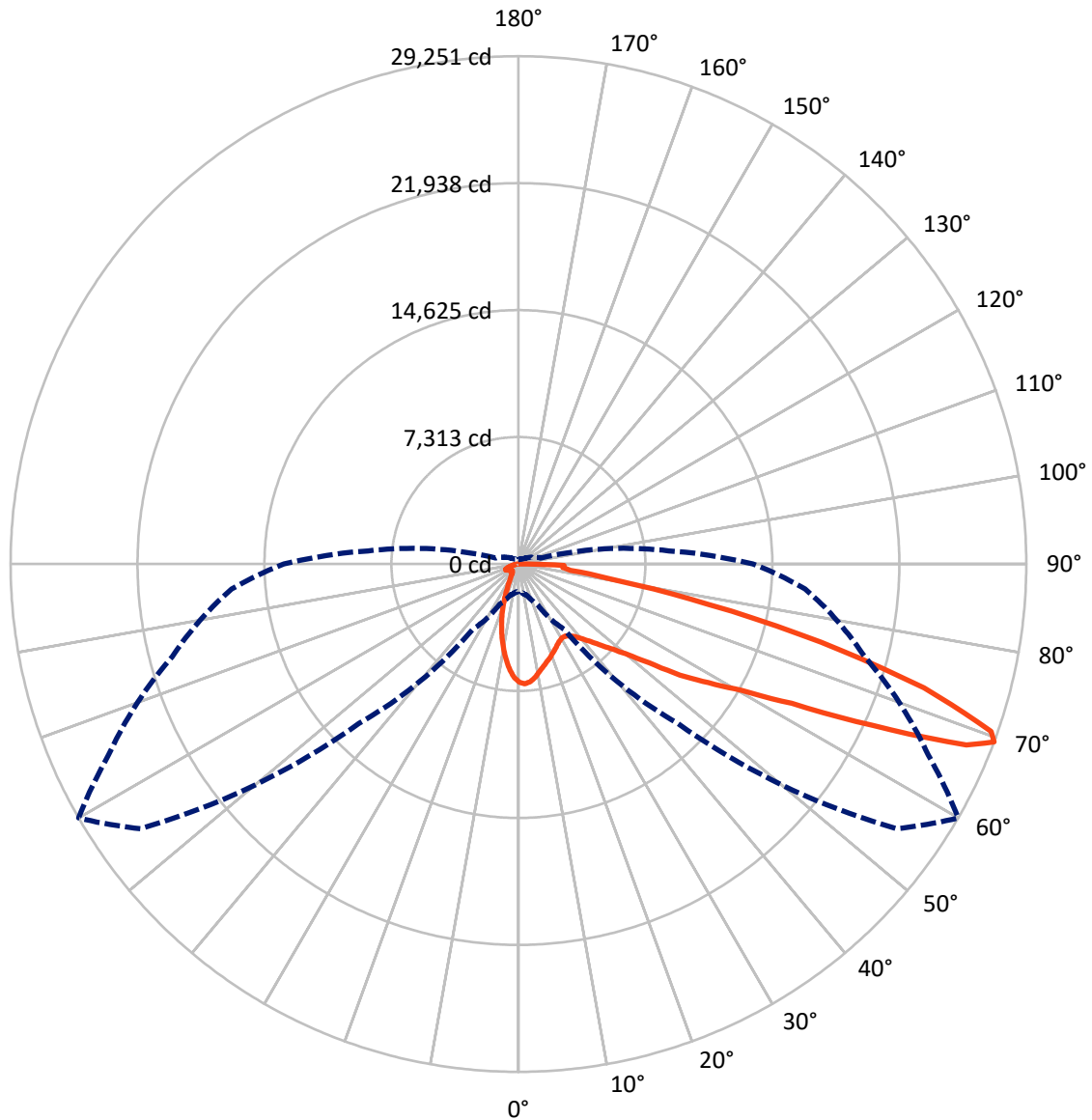
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3804.0	0.0	3804.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22933.9	0.0	22933.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	26737.8	0.0	26737.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.1	2.2
10°-20°	1227.4	4.6
20°-30°	1563.9	5.8
30°-40°	2150.0	8.0
40°-50°	3488.5	13.0
50°-60°	5594.7	20.9
60°-70°	7446.1	27.8
70°-80°	4020.3	15.0
80°-90°	670.8	2.5
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°	26737.8	100.0
0°-180°	26737.8	100.0



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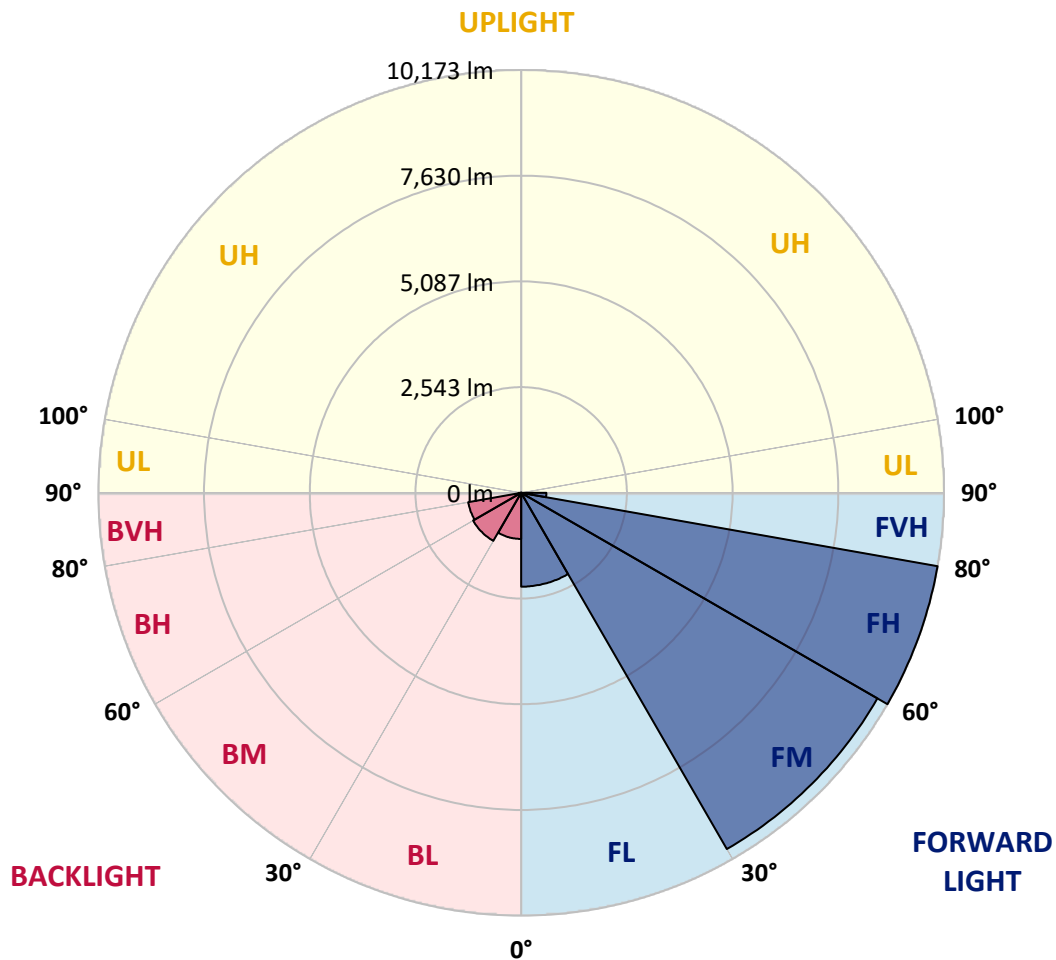
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2257.6	8.4			
FM	(30°-60°)	9896.8	37.0			
FH	(60°-80°)	10173.2	38.0			G4/12000
FVH	(80°-90°)	606.2	2.3			G4/750
BL	(0°-30°)	1109.7	4.2	B3/2500		
BM	(30°-60°)	1336.4	5.0	B2/2500		
BH	(60°-80°)	1293.2	4.8	B3/2500		G3/2500
BVH	(80°-90°)	64.6	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2
2.5°	6952.7	6968.2	6961.7	6957.9	6969.5	6951.4	6914.0	6902.3	6884.2	6841.6	6769.3
5°	6691.8	6738.3	6735.7	6770.6	6828.7	6844.2	6827.4	6830.0	6796.4	6743.5	6623.3
7.5°	6241.0	6260.4	6270.7	6346.9	6452.9	6538.1	6610.4	6633.7	6618.2	6573.0	6418.0
10°	5776.1	5791.6	5816.1	5905.2	6039.5	6157.1	6294.0	6372.8	6406.4	6398.6	6225.5
12.5°	5376.9	5392.4	5424.7	5525.5	5685.6	5830.3	6029.2	6127.4	6207.4	6255.2	6069.2
15°	5019.2	5052.8	5083.8	5200.0	5379.5	5569.4	5794.1	5918.1	6042.1	6149.3	5931.0
17.5°	4740.2	4773.8	4791.8	4897.8	5088.9	5321.4	5584.9	5730.8	5885.8	6061.5	5794.1
20°	4578.7	4594.2	4586.5	4645.9	4817.7	5064.4	5376.9	5546.1	5733.4	5978.8	5657.2
22.5°	4533.5	4534.8	4506.4	4499.9	4611.0	4819.0	5154.8	5360.2	5590.1	5924.6	5539.7
25°	4643.3	4639.4	4561.9	4498.7	4510.3	4631.7	4940.4	5179.3	5469.9	5913.0	5449.3
27.5°	4887.4	4899.1	4784.1	4665.3	4547.7	4543.9	4777.6	5029.5	5371.8	5965.9	5410.5
30°	5229.7	5249.1	5126.4	4975.3	4754.4	4572.3	4714.4	4940.4	5311.1	6075.7	5404.1
32.5°	5604.3	5624.9	5531.9	5373.1	5083.8	4747.9	4758.3	4948.1	5308.5	6229.4	5448.0
35°	6003.4	6026.6	5978.8	5844.5	5522.9	5072.1	4926.2	5073.4	5392.4	6464.5	5565.5
37.5°	6449.0	6485.1	6498.1	6370.2	6026.6	5499.6	5201.3	5311.1	5582.3	6791.3	5781.2
40°	7090.9	7141.3	7137.4	6954.0	6604.0	6077.0	5626.2	5654.6	5878.1	7227.8	6126.1
42.5°	8320.5	8330.8	8009.2	7610.1	7239.4	6684.0	6127.4	6104.1	6286.2	7780.6	6633.7
45°	9884.6	9842.0	9126.5	8355.4	7903.3	7381.5	6779.6	6666.0	6804.2	8454.8	7269.1
47.5°	11182.7	11084.5	10180.4	9116.1	8606.0	8139.7	7545.5	7346.6	7422.8	9219.5	8090.6
50°	11633.5	11559.9	10810.7	9749.0	9271.1	9064.5	8488.4	8206.8	8227.5	10131.3	9052.9
52.5°	11536.6	11526.3	11026.4	10166.2	9893.7	10035.8	9823.9	9442.9	9241.4	11144.0	10091.3
55°	11308.0	11329.9	11149.1	10651.9	10605.4	10973.5	11568.9	11287.3	10660.9	12165.6	11164.6
57.5°	10513.7	10570.5	10968.3	11262.8	11751.0	12298.7	12974.2	12894.1	12188.9	13269.9	12440.7
60°	8470.3	8602.1	9668.9	11144.0	12930.2	14642.9	14945.1	14759.2	13764.6	14640.3	14126.3
62.5°	5934.9	6071.8	7340.2	9648.3	12736.5	17290.7	18468.6	17666.6	16027.5	16659.1	16307.8
65°	3177.3	3243.2	4211.9	6694.4	10752.6	17837.0	23618.3	22397.7	19610.4	19148.0	18174.2
67.5°	1752.7	1788.9	2159.6	3380.1	6886.8	15707.2	26898.9	27821.1	24088.4	20805.2	17834.5
69°	1584.8	1618.4	1861.2	2560.0	4608.4	12987.1	26578.6	29250.9	26051.6	20641.1	16579.0
70°	1549.9	1580.9	1799.2	2359.8	3730.2	10704.8	25505.3	28885.4	26519.2	20053.4	15483.7
72.5°	1394.9	1428.5	1640.3	2119.5	3187.7	5336.9	20203.3	24422.9	24076.8	17387.6	11744.6
75°	1300.6	1331.6	1690.7	2075.6	3052.1	3377.5	13319.0	17999.8	17698.8	12163.0	6332.7
77.5°	556.7	554.1	784.0	1756.6	3097.3	3270.3	7156.8	11244.7	10259.2	5198.7	1818.6
80°	372.0	365.5	372.0	516.6	2840.2	3288.4	3749.5	5707.6	4311.4	1325.2	896.4
82.5°	320.3	315.2	326.8	315.2	998.4	3753.4	3187.7	3035.3	2049.8	753.0	444.3
85°	215.7	206.7	281.6	282.9	471.4	3334.9	3590.7	2563.8	1658.4	446.9	219.6
87.5°	103.3	100.7	164.0	200.2	276.4	1354.9	4028.5	2627.1	1672.6	228.6	104.6
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°	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2	6813.2
2.5°	6747.3	6694.4	6642.7	6580.7	6516.1	6443.8	6407.6	6371.5	6362.4	6352.1	6315.9
5°	6561.3	6486.4	6357.3	6215.2	6065.4	5919.4	5808.3	5738.6	5685.6	5658.5	5610.7
7.5°	6321.1	6211.3	5985.3	5739.9	5488.0	5258.1	5059.2	4933.9	4815.1	4759.6	4696.3
10°	6092.5	5928.5	5577.1	5215.5	4853.8	4506.4	4179.6	3948.4	3743.1	3628.1	3546.7
12.5°	5896.2	5671.4	5184.5	4695.0	4199.0	3704.3	3214.8	2829.9	2508.3	2339.1	2252.6
15°	5705.0	5433.8	4811.2	4190.0	3553.2	2880.3	2237.1	1800.5	1534.4	1428.5	1392.3
17.5°	5531.9	5184.5	4436.7	3681.1	2886.7	2073.0	1503.4	1263.2	1161.2	1126.3	1114.7
20°	5344.7	4932.6	4047.9	3148.9	2191.9	1449.2	1174.1	1068.2	1026.8	1016.5	1011.3
22.5°	5163.8	4684.6	3675.9	2579.3	1574.5	1118.5	1008.7	964.8	958.4	967.4	967.4
25°	5010.1	4462.5	3274.2	1983.9	1156.0	941.6	902.8	892.5	917.0	950.6	957.1
27.5°	4895.2	4280.4	2846.7	1464.7	920.9	818.9	817.6	834.4	895.1	959.7	972.6
30°	4816.4	4107.3	2389.5	1056.5	772.4	720.7	741.4	777.5	866.7	958.4	982.9
32.5°	4776.4	3979.4	1912.9	817.6	661.3	632.9	667.8	711.7	799.5	884.7	917.0
35°	4807.3	3885.1	1463.4	682.0	583.8	561.8	598.0	640.6	692.3	728.5	753.0
37.5°	4923.6	3847.7	1104.3	610.9	530.8	510.2	538.6	563.1	583.8	594.1	605.8
40°	5174.2	3887.7	884.7	574.8	501.1	475.3	486.9	496.0	508.9	519.2	524.4
42.5°	5543.6	4007.8	793.0	560.6	485.6	448.2	445.6	449.5	466.3	485.6	489.5
45°	6060.2	4219.7	786.6	569.6	477.9	426.2	414.6	419.8	445.6	475.3	480.5
47.5°	6720.2	4542.6	838.3	596.7	484.4	414.6	395.2	401.7	434.0	474.0	480.5
50°	7519.7	4993.3	924.8	636.8	512.8	417.2	388.8	392.6	426.2	470.1	476.6
52.5°	8463.9	5632.7	1019.1	675.5	542.5	434.0	393.9	384.9	415.9	454.6	462.4
55°	9514.0	6452.9	1115.9	710.4	558.0	454.6	404.3	374.6	396.5	428.8	435.3
57.5°	10803.0	7599.8	1283.9	744.0	568.3	468.9	414.6	364.2	372.0	395.2	400.4
60°	12547.9	9222.1	1579.6	799.5	591.6	474.0	413.3	355.2	347.4	360.4	362.9
62.5°	14639.0	10983.8	1826.3	869.2	630.3	477.9	405.6	348.7	326.8	326.8	329.4
65°	15880.3	11455.2	1689.4	927.4	662.6	474.0	396.5	342.3	311.3	297.1	298.4
67.5°	14827.6	10074.5	1447.9	939.0	661.3	455.9	382.3	330.7	295.8	273.8	272.5
69°	13508.9	8692.5	1339.4	908.0	630.3	432.7	364.2	317.7	284.2	260.9	259.6
70°	12445.9	7849.1	1268.4	874.4	596.7	415.9	350.0	306.1	275.1	253.2	250.6
72.5°	9049.0	5143.2	1083.7	751.7	492.1	348.7	302.2	268.7	245.4	232.5	229.9
75°	4521.9	2452.8	879.6	609.6	377.1	279.0	248.0	224.7	213.1	210.5	209.2
77.5°	1485.3	1123.7	629.0	454.6	280.3	218.3	200.2	183.4	180.8	188.6	186.0
80°	816.3	653.6	399.1	300.9	191.2	160.2	157.6	148.5	152.4	165.3	162.7
82.5°	415.9	339.7	246.7	180.8	129.2	115.0	125.3	120.1	125.3	136.9	135.6
85°	205.4	186.0	156.3	109.8	85.2	73.6	89.1	93.0	95.6	104.6	104.6
87.5°	118.8	109.8	82.7	51.7	42.6	38.7	51.7	50.4	59.4	64.6	63.3
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)