

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: P299905

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299905
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-06-LED-E1-SL3-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24905.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

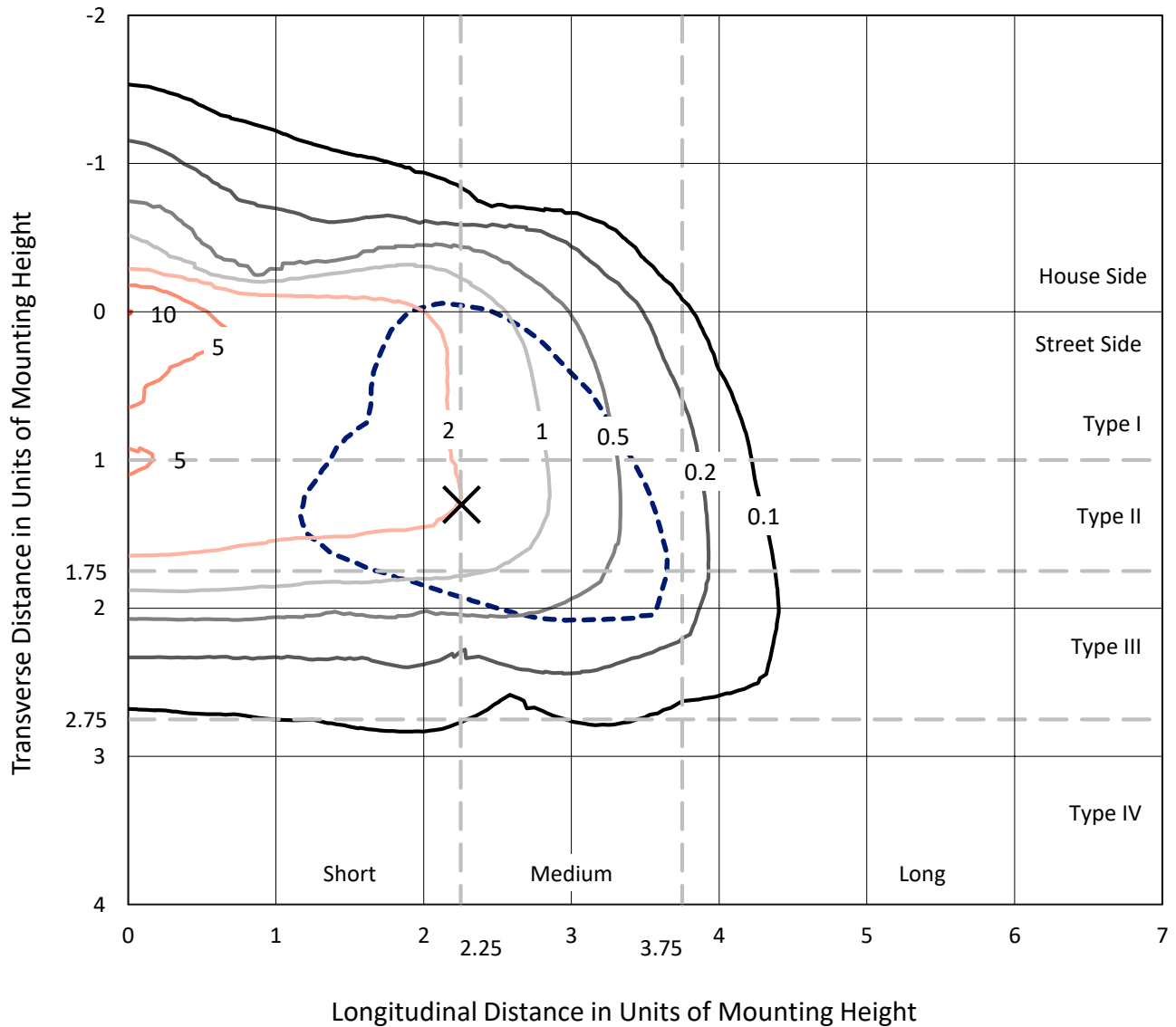
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P299905
 CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7027-800

Iso-Footcandle Lines of Horizontal Illumination

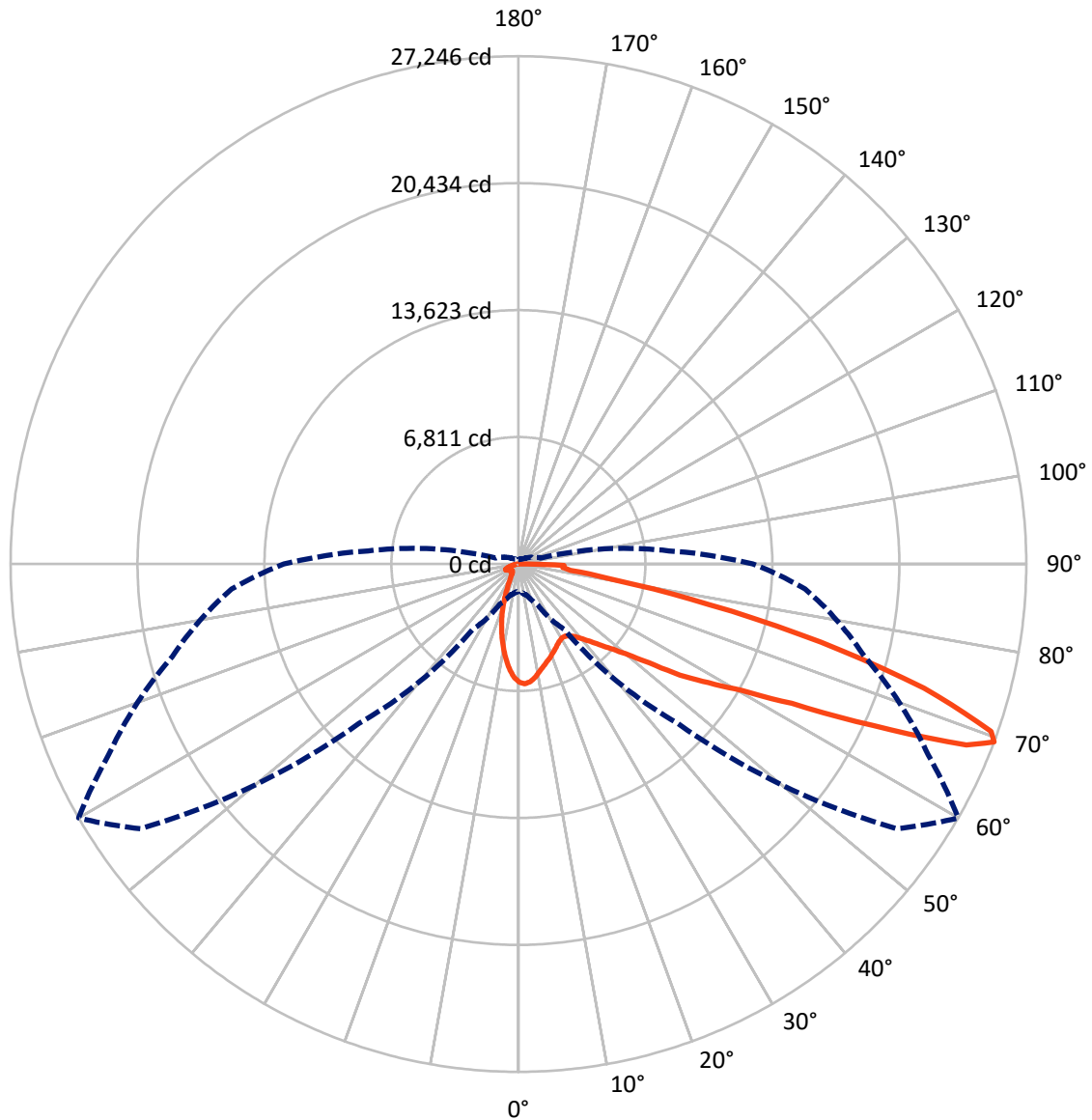
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P299905
CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7027-800

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	3543.2	0.0	3543.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21361.9	0.0	21361.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	24905.1	0.0	24905.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.6	2.2
10°-20°	1143.3	4.6
20°-30°	1456.7	5.8
30°-40°	2002.6	8.0
40°-50°	3249.4	13.0
50°-60°	5211.2	20.9
60°-70°	6935.7	27.8
70°-80°	3744.8	15.0
80°-90°	624.8	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°	24905.1	100.0
0°-180°	24905.1	100.0

Coefficient of Utilization



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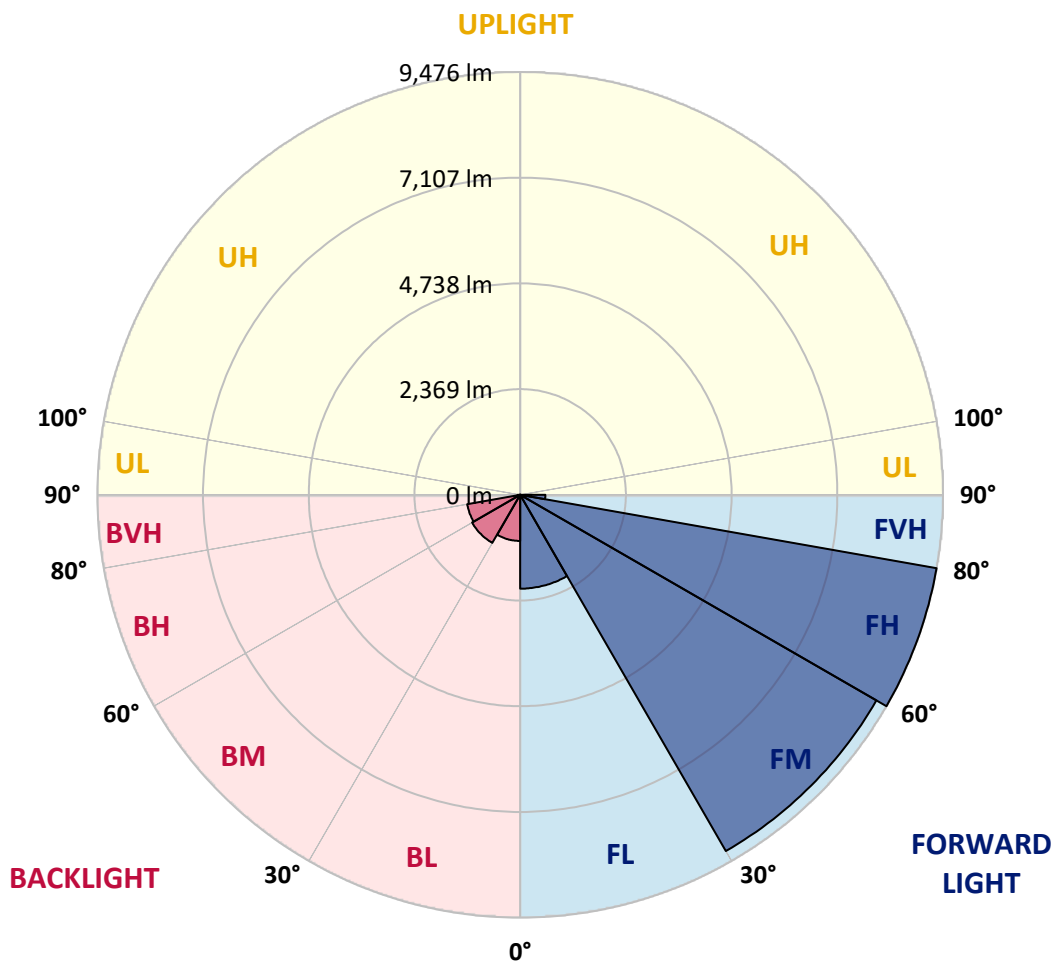
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2102.9	8.4			
FM	(30°-60°)	9218.4	37.0			
FH	(60°-80°)	9475.9	38.0			G4/12000
FVH	(80°-90°)	564.7	2.3			G4/750
BL	(0°-30°)	1033.7	4.2	B3/2500		
BM	(30°-60°)	1244.8	5.0	B2/2500		
BH	(60°-80°)	1204.6	4.8	B3/2500		G3/2500
BVH	(80°-90°)	60.2	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





REPORT NUMBER: P299905

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2
2.5°	6476.1	6490.6	6484.5	6480.9	6491.8	6474.9	6440.0	6429.2	6412.4	6372.7	6305.3
5°	6233.1	6276.4	6274.0	6306.5	6360.6	6375.1	6359.4	6361.8	6330.6	6281.2	6169.3
7.5°	5813.2	5831.3	5840.9	5911.9	6010.5	6089.9	6157.3	6179.0	6164.5	6122.4	5978.1
10°	5380.1	5394.6	5417.4	5500.4	5625.6	5735.0	5862.6	5935.9	5967.2	5960.0	5798.8
12.5°	5008.4	5022.8	5052.9	5146.7	5295.9	5430.7	5615.9	5707.4	5782.0	5826.5	5653.2
15°	4675.1	4706.4	4735.3	4843.6	5010.8	5187.6	5397.0	5512.5	5628.0	5727.8	5524.5
17.5°	4415.3	4446.5	4463.4	4562.0	4740.1	4956.6	5202.1	5338.0	5482.4	5646.0	5397.0
20°	4264.9	4279.3	4272.1	4327.4	4487.5	4717.2	5008.4	5166.0	5340.4	5569.0	5269.4
22.5°	4222.8	4224.0	4197.5	4191.5	4295.0	4488.7	4801.5	4992.7	5206.9	5518.5	5160.0
25°	4325.0	4321.4	4249.2	4190.3	4201.1	4314.2	4601.7	4824.3	5095.0	5507.7	5075.8
27.5°	4552.4	4563.2	4456.2	4345.5	4236.0	4232.4	4450.2	4684.8	5003.6	5557.0	5039.7
30°	4871.2	4889.3	4775.0	4634.2	4428.5	4258.9	4391.2	4601.7	4947.0	5659.2	5033.6
32.5°	5220.1	5239.4	5152.7	5004.8	4735.3	4422.5	4432.1	4609.0	4944.6	5802.4	5074.6
35°	5591.9	5613.5	5569.0	5443.9	5144.3	4724.5	4588.5	4725.7	5022.8	6021.4	5184.0
37.5°	6006.9	6040.6	6052.6	5933.5	5613.5	5122.7	4844.8	4947.0	5199.7	6325.7	5384.9
40°	6604.9	6651.8	6648.2	6477.3	6151.3	5660.4	5240.6	5267.0	5475.2	6732.4	5706.2
42.5°	7750.2	7759.8	7460.2	7088.5	6743.2	6225.9	5707.4	5685.7	5855.3	7247.3	6179.0
45°	9207.1	9167.4	8500.9	7782.7	7361.6	6875.5	6314.9	6209.0	6337.8	7875.3	6770.9
47.5°	10416.2	10324.7	9482.6	8491.3	8016.1	7581.7	7028.3	6843.1	6914.0	8587.5	7536.0
50°	10836.1	10767.5	10069.7	9080.8	8635.6	8443.1	7906.6	7644.3	7663.6	9436.9	8432.3
52.5°	10745.8	10736.2	10270.6	9469.4	9215.5	9347.9	9150.6	8795.6	8608.0	10380.1	9399.6
55°	10532.9	10553.3	10384.9	9921.7	9878.4	10221.3	10775.9	10513.6	9930.1	11331.7	10399.3
57.5°	9793.0	9845.9	10216.5	10490.8	10945.5	11455.6	12084.8	12010.3	11353.4	12360.3	11588.0
60°	7889.7	8012.4	9006.2	10380.1	12043.9	13639.2	13920.7	13747.5	12821.1	13636.8	13158.0
62.5°	5528.1	5655.6	6837.0	8986.9	11863.5	16105.5	17202.7	16455.6	14928.9	15517.2	15190.0
65°	2959.6	3020.9	3923.2	6235.5	10015.6	16614.4	21999.3	20862.4	18266.2	17835.5	16928.4
67.5°	1632.6	1666.3	2011.5	3148.4	6414.8	14630.5	25055.1	25914.1	22437.3	19379.1	16612.0
69°	1476.2	1507.4	1733.6	2384.5	4292.6	12096.9	24756.8	27245.9	24265.9	19226.3	15442.6
70°	1443.7	1472.6	1675.9	2198.0	3474.5	9971.0	23757.0	26905.5	24701.4	18678.9	14422.4
72.5°	1299.3	1330.6	1527.9	1974.2	2969.2	4971.1	18818.4	22748.9	22426.4	16195.7	10939.5
75°	1211.5	1240.4	1574.8	1933.3	2842.9	3146.0	12406.1	16766.0	16485.7	11329.3	5898.7
77.5°	518.5	516.1	730.3	1636.2	2885.0	3046.2	6666.2	10473.9	9556.0	4842.4	1693.9
80°	346.5	340.5	346.5	481.2	2645.6	3063.0	3492.5	5316.4	4015.8	1234.4	834.9
82.5°	298.4	293.5	304.4	293.5	930.0	3496.1	2969.2	2827.2	1909.3	701.4	413.9
85°	200.9	192.5	262.3	263.5	439.1	3106.3	3344.5	2388.1	1544.7	416.3	204.5
87.5°	96.2	93.8	152.8	186.5	257.5	1262.0	3752.4	2447.0	1558.0	212.9	97.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299905

CATALOG NUMBER: GLNA-AF-06-LED-E1-SL3-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2	6346.2
2.5°	6284.8	6235.5	6187.4	6129.6	6069.5	6002.1	5968.4	5934.7	5926.3	5916.7	5883.0
5°	6111.6	6041.8	5921.5	5789.2	5649.6	5513.7	5410.2	5345.2	5295.9	5270.7	5226.1
7.5°	5887.8	5785.6	5575.0	5346.4	5111.8	4897.7	4712.4	4595.7	4485.0	4433.3	4374.4
10°	5674.9	5522.1	5194.9	4858.0	4521.1	4197.5	3893.1	3677.8	3486.5	3379.4	3303.6
12.5°	5492.0	5282.7	4829.1	4373.2	3911.2	3450.4	2994.4	2635.9	2336.4	2178.8	2098.2
15°	5314.0	5061.3	4481.4	3902.8	3309.6	2682.8	2083.7	1677.1	1429.2	1330.6	1296.9
17.5°	5152.7	4829.1	4132.5	3428.8	2688.9	1930.9	1400.4	1176.6	1081.6	1049.1	1038.2
20°	4978.3	4594.5	3770.4	2933.1	2041.6	1349.8	1093.6	994.9	956.4	946.8	942.0
22.5°	4809.9	4363.5	3423.9	2402.5	1466.5	1041.9	939.6	898.7	892.7	901.1	901.1
25°	4666.7	4156.6	3049.8	1847.9	1076.7	877.0	840.9	831.3	854.2	885.5	891.5
27.5°	4559.6	3987.0	2651.6	1364.3	857.8	762.7	761.5	777.2	833.7	893.9	905.9
30°	4486.2	3825.8	2225.7	984.1	719.4	671.3	690.6	724.2	807.3	892.7	915.5
32.5°	4449.0	3706.7	1781.7	761.5	616.0	589.5	622.0	662.9	744.7	824.1	854.2
35°	4477.8	3618.8	1363.1	635.2	543.8	523.3	557.0	596.7	644.8	678.5	701.4
37.5°	4586.1	3583.9	1028.6	569.1	494.5	475.2	501.7	524.5	543.8	553.4	564.2
40°	4819.5	3621.2	824.1	535.4	466.8	442.7	453.6	462.0	474.0	483.6	488.4
42.5°	5163.6	3733.1	738.7	522.1	452.4	417.5	415.1	418.7	434.3	452.4	456.0
45°	5644.8	3930.4	732.7	530.6	445.1	397.0	386.2	391.0	415.1	442.7	447.5
47.5°	6259.6	4231.2	780.8	555.8	451.2	386.2	368.1	374.2	404.2	441.5	447.5
50°	7004.3	4651.1	861.4	593.1	477.6	388.6	362.1	365.7	397.0	437.9	443.9
52.5°	7883.7	5246.6	949.2	629.2	505.3	404.2	366.9	358.5	387.4	423.5	430.7
55°	8861.8	6010.5	1039.5	661.7	519.7	423.5	376.6	348.9	369.3	399.4	405.4
57.5°	10062.5	7078.9	1195.9	693.0	529.4	436.7	386.2	339.3	346.5	368.1	373.0
60°	11687.8	8589.9	1471.4	744.7	551.0	441.5	385.0	330.8	323.6	335.7	338.1
62.5°	13635.6	10230.9	1701.1	809.7	587.1	445.1	377.8	324.8	304.4	304.4	306.8
65°	14791.7	10670.0	1573.6	863.8	617.2	441.5	369.3	318.8	289.9	276.7	277.9
67.5°	13811.2	9383.9	1348.6	874.6	616.0	424.7	356.1	308.0	275.5	255.1	253.8
69°	12582.9	8096.7	1247.6	845.8	587.1	403.0	339.3	296.0	264.7	243.0	241.8
70°	11592.8	7311.1	1181.4	814.5	555.8	387.4	326.0	285.1	256.3	235.8	233.4
72.5°	8428.7	4790.6	1009.4	700.2	458.4	324.8	281.5	250.2	228.6	216.6	214.1
75°	4211.9	2284.6	819.3	567.8	351.3	259.9	231.0	209.3	198.5	196.1	194.9
77.5°	1383.5	1046.7	585.9	423.5	261.1	203.3	186.5	170.8	168.4	175.6	173.2
80°	760.3	608.8	371.7	280.3	178.1	149.2	146.8	138.4	142.0	154.0	151.6
82.5°	387.4	316.4	229.8	168.4	120.3	107.1	116.7	111.9	116.7	127.5	126.3
85°	191.3	173.2	145.6	102.3	79.4	68.6	83.0	86.6	89.0	97.4	97.4
87.5°	110.7	102.3	77.0	48.1	39.7	36.1	48.1	46.9	55.3	60.2	59.0
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)