

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: P300338

Luminaire Tested: **GLNA-AF-08-LED-E1-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-08-LED-E1-T4FT-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41555.8 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

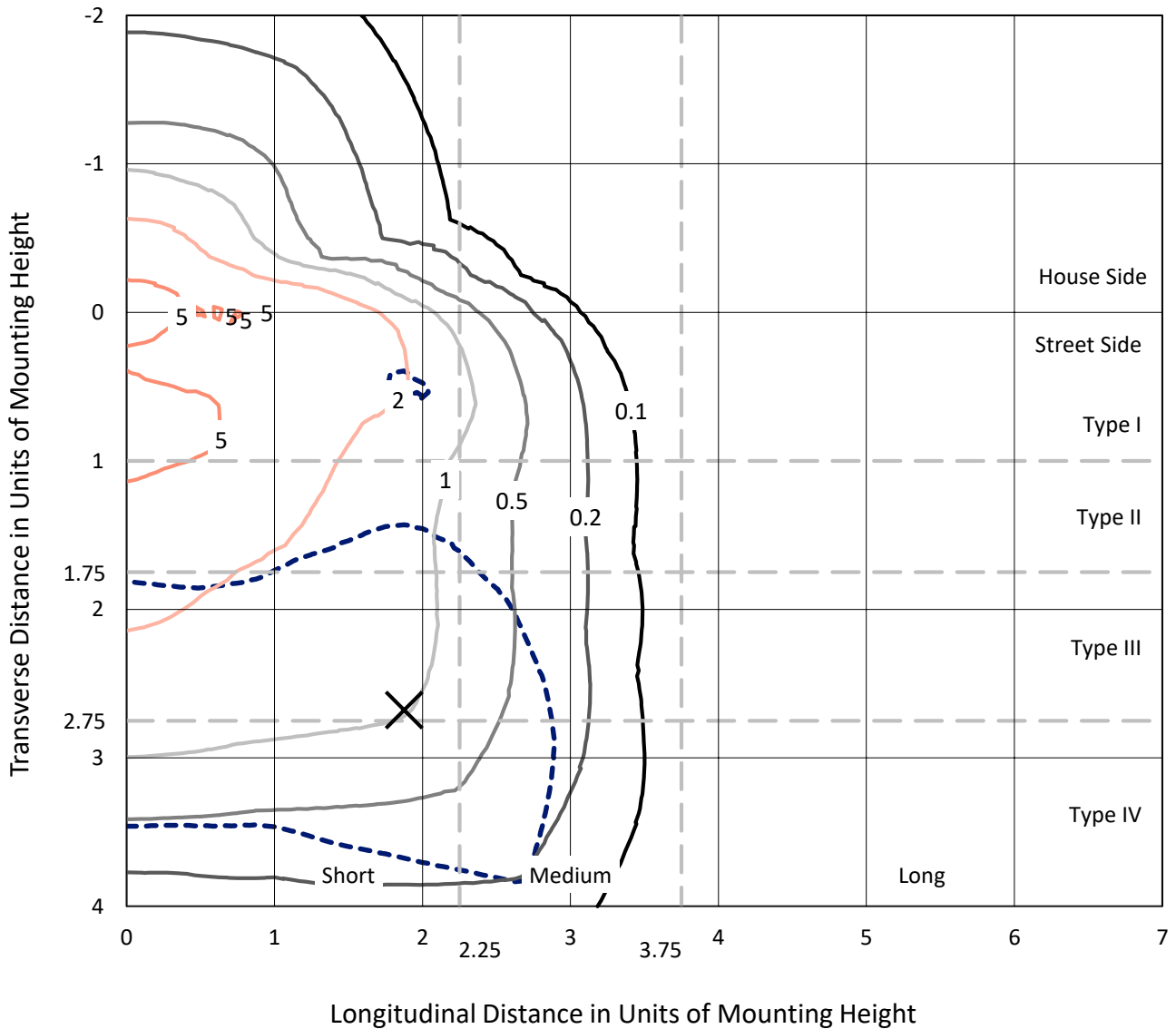
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

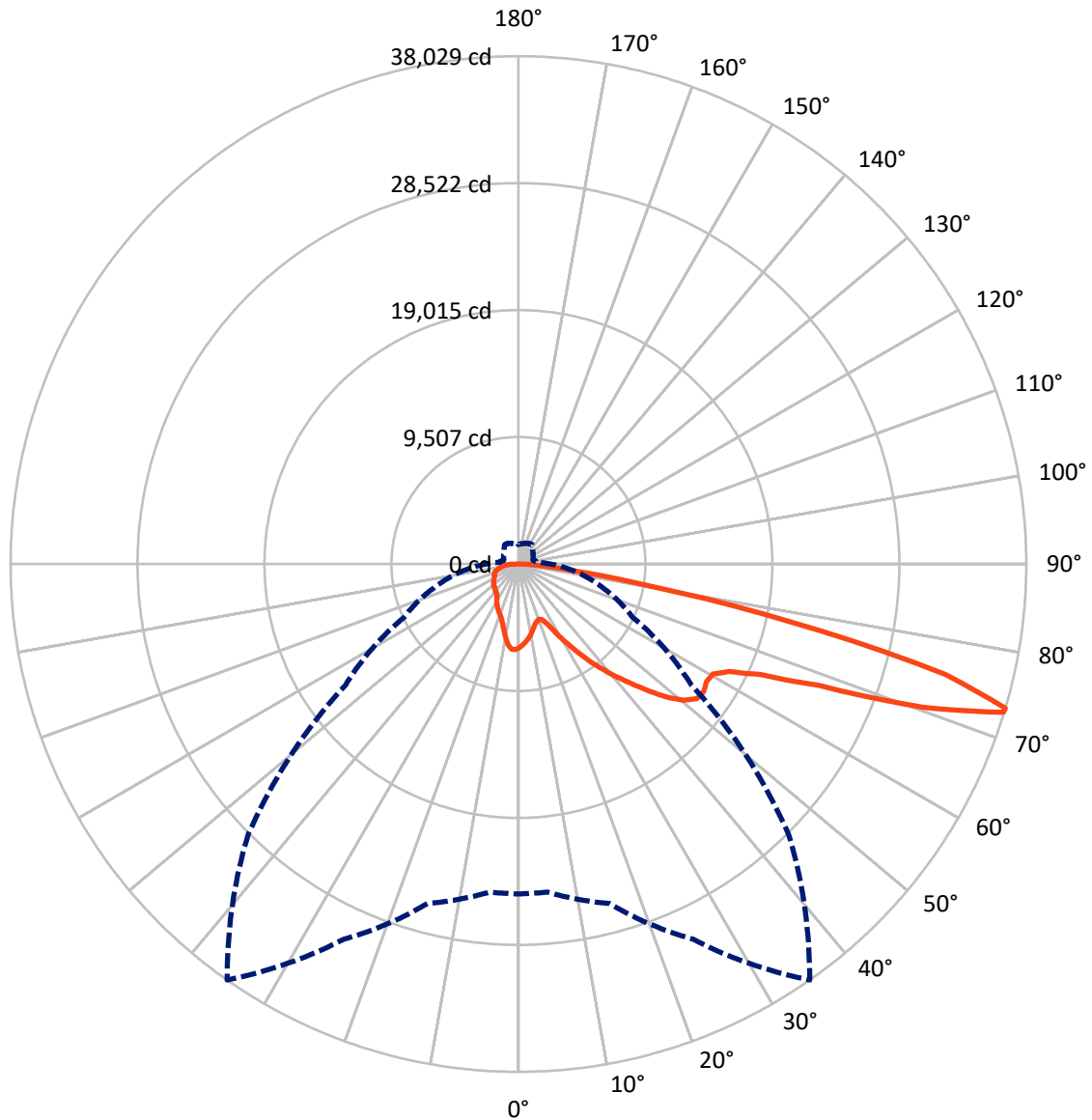
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7925.8	0.0	7925.8
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	33629.9	0.0	33629.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	41555.8	0.0	41555.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.8	1.4
10°-20°	1417.1	3.4
20°-30°	2291.0	5.5
30°-40°	3841.7	9.2
40°-50°	5921.8	14.3
50°-60°	7944.8	19.1
60°-70°	10584.1	25.5
70°-80°	8072.4	19.4
80°-90°	915.0	2.2
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°	41555.8	100.0
0°-180°	41555.8	100.0



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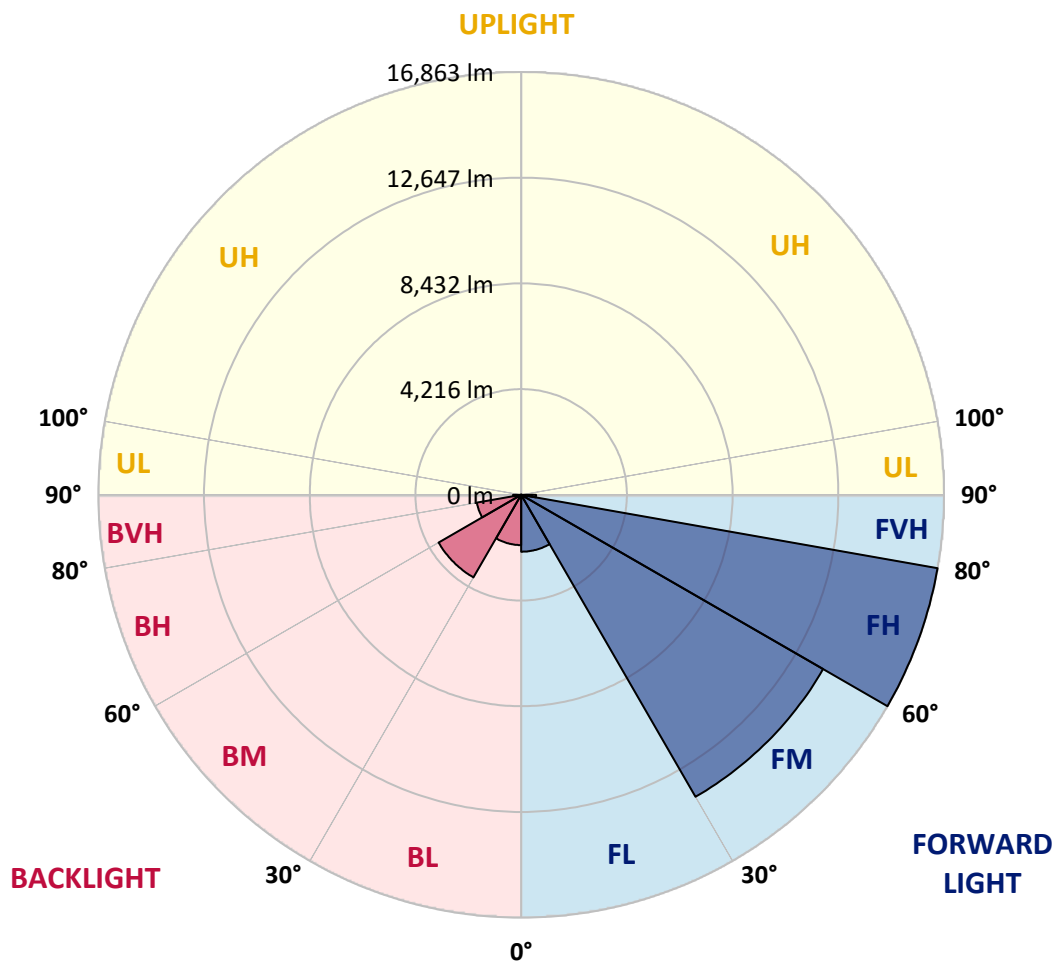
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.3	5.5			
FM	(30°-60°)	13904.8	33.5			
FH	(60°-80°)	16863.3	40.6			G5
FVH	(80°-90°)	591.4	1.4			G4/750
BL	(0°-30°)	2005.6	4.8	B3/2500		
BM	(30°-60°)	3803.5	9.2	B3/5000		
BH	(60°-80°)	1793.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	323.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1
2.5°	6024.6	6036.6	6022.6	6040.6	6070.5	6102.4	6124.4	6156.3	6192.2	6242.1	6254.1
5°	5741.2	5759.2	5759.2	5791.1	5849.0	5900.9	5948.8	6000.7	6076.5	6162.3	6196.2
7.5°	5429.9	5439.9	5457.9	5505.8	5589.6	5663.4	5731.3	5815.1	5918.8	6032.6	6092.5
10°	5054.8	5068.7	5096.7	5164.5	5278.3	5380.0	5477.8	5593.6	5725.3	5867.0	5942.8
12.5°	4789.4	4785.4	4797.3	4847.2	4947.0	5070.7	5212.4	5360.1	5521.7	5687.4	5779.1
15°	4699.5	4677.6	4631.7	4619.7	4673.6	4797.3	4961.0	5142.6	5336.1	5535.7	5649.4
17.5°	4755.4	4717.5	4591.8	4500.0	4492.0	4585.8	4759.4	4963.0	5186.5	5429.9	5571.6
20°	5106.6	5016.8	4707.5	4494.0	4420.2	4466.1	4617.7	4833.3	5096.7	5419.9	5601.5
22.5°	5946.8	5815.1	5158.5	4761.4	4512.0	4456.1	4569.8	4799.3	5106.6	5543.7	5775.2
25°	7170.1	6982.5	5932.8	5427.9	4913.1	4615.7	4641.7	4877.2	5248.3	5831.0	6110.4
27.5°	8135.9	8014.2	6944.6	6367.8	5643.5	5046.8	4875.2	5072.7	5537.7	6302.0	6587.4
30°	8710.6	8636.8	8026.2	7433.5	6575.4	5733.3	5322.2	5439.9	5990.7	6954.5	7190.0
32.5°	9377.1	9333.2	9033.9	8489.1	7581.1	6635.2	6030.6	5988.7	6597.3	7738.8	7846.6
35°	10067.6	10053.6	9878.0	9486.9	8660.7	7824.6	6970.5	6687.1	7257.9	8553.0	8485.1
37.5°	10710.2	10686.2	10584.5	10357.0	9790.2	9101.8	7928.4	7403.5	7970.3	9331.3	9029.9
40°	11893.6	11706.0	11356.7	11185.1	10931.7	10177.4	8688.7	8072.1	8708.6	10073.6	9500.9
42.5°	13336.3	13031.0	12380.5	12145.0	12109.1	11025.5	9207.5	8720.6	9453.0	10810.0	9963.8
45°	14471.8	14184.5	13623.7	13326.4	13458.1	11793.8	9728.4	9413.1	10219.3	11582.2	10440.8
47.5°	15683.1	15232.1	14489.8	14579.6	14866.9	12520.2	10259.2	10157.4	11059.4	12446.3	11033.5
50°	15727.0	15381.8	15056.5	15593.3	16040.3	13188.7	10923.7	10937.7	12087.1	13533.9	11821.7
52.5°	14815.1	14741.2	15258.1	16102.2	16746.8	13717.5	11680.0	11743.9	13402.2	14783.1	12687.8
55°	14495.8	14412.0	15008.6	15924.6	16842.5	14154.5	12500.2	12615.9	14992.7	16100.2	13531.9
57.5°	15274.0	15088.4	15128.4	15840.8	16609.1	14633.5	13394.2	13627.7	16720.8	17251.6	14074.7
60°	17449.2	17052.1	16297.8	16279.8	16734.8	15351.9	14427.9	14713.3	18516.8	17802.4	13863.2
62.5°	20500.4	20103.3	18690.4	17770.5	17702.6	16537.2	15697.1	15772.9	19554.5	17056.1	12572.0
65°	23803.1	23447.9	21869.4	20570.3	19943.7	18500.9	17171.8	16245.9	19215.3	15002.6	10313.1
67.5°	27812.2	27431.0	26074.0	24874.7	24272.0	21669.8	18207.5	15792.9	17062.1	11622.2	7413.5
70°	30615.9	30226.8	29692.0	30663.8	32138.5	26241.6	18341.2	13951.0	12743.7	7724.8	4462.1
72.5°	26958.1	26776.5	27752.3	31845.2	37987.5	29015.5	16579.1	10157.4	7401.5	4100.9	2582.3
73°	24699.1	24659.2	26323.5	31017.0	38029.4	28588.4	15806.9	9441.0	6347.9	3627.9	2360.8
75°	11153.2	11474.5	15122.4	23691.3	33040.5	23557.6	11125.3	5416.0	3586.0	2506.4	1782.0
77.5°	2680.0	2791.8	4731.5	11251.0	20865.6	14038.8	5040.8	2678.0	2292.9	1770.1	1301.1
80°	1141.5	1179.4	1821.9	4156.8	9824.2	5653.4	2322.8	1794.0	1586.5	1235.3	912.0
82.5°	634.6	674.5	1033.7	1885.8	3965.2	1927.7	1416.8	1249.2	1043.7	744.3	592.7
85°	359.2	381.2	604.7	1053.7	1680.3	774.3	848.1	830.2	588.7	383.1	291.4
87.5°	169.6	183.6	291.4	488.9	658.5	303.3	431.0	474.9	369.2	233.5	151.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1	6272.1
2.5°	6268.1	6304.0	6345.9	6367.8	6387.8	6411.7	6435.7	6435.7	6439.7	6441.7
5°	6224.2	6298.0	6363.8	6391.8	6397.8	6397.8	6391.8	6359.9	6331.9	6343.9
7.5°	6132.4	6240.1	6296.0	6286.0	6210.2	6122.4	6048.6	5958.7	5912.9	5904.9
10°	6000.7	6124.4	6134.4	6034.6	5847.0	5659.4	5503.8	5352.1	5280.3	5262.3
12.5°	5855.0	5968.7	5904.9	5699.3	5398.0	5124.6	4927.0	4773.4	4705.5	4687.6
15°	5737.2	5815.1	5653.4	5330.1	4951.0	4661.6	4498.0	4384.3	4336.4	4322.4
17.5°	5675.4	5691.3	5396.0	4959.0	4555.9	4314.4	4212.6	4158.8	4140.8	4130.8
20°	5705.3	5593.6	5150.5	4613.7	4232.6	4063.0	4039.0	4025.0	4021.1	4015.1
22.5°	5855.0	5563.6	4925.0	4286.5	3949.2	3875.4	3895.3	3893.3	3889.4	3885.4
25°	6122.4	5589.6	4705.5	3975.2	3711.7	3695.8	3731.7	3731.7	3715.7	3715.7
27.5°	6475.6	5643.5	4460.1	3679.8	3496.2	3498.2	3526.2	3518.2	3500.2	3488.2
30°	6906.6	5677.4	4172.7	3414.4	3294.7	3286.7	3294.7	3260.7	3206.9	3202.9
32.5°	7347.7	5635.5	3839.5	3178.9	3081.1	3063.2	3057.2	3009.3	2947.4	2929.5
35°	7746.8	5481.8	3500.2	2991.3	2877.6	2837.7	2865.6	2849.7	2793.8	2779.8
37.5°	8038.1	5196.4	3194.9	2825.7	2731.9	2721.9	2739.9	2745.9	2680.0	2666.1
40°	8233.7	4809.3	2933.5	2686.0	2704.0	2666.1	2606.2	2564.3	2544.3	2538.4
42.5°	8391.3	4406.2	2714.0	2620.2	2710.0	2600.2	2470.5	2402.7	2438.6	2454.5
45°	8572.9	4013.1	2530.4	2538.4	2680.0	2524.4	2376.7	2310.9	2324.8	2328.8
47.5°	8822.4	3534.1	2332.8	2406.6	2580.3	2472.5	2318.8	2225.1	2159.2	2129.3
50°	9167.6	2967.4	2127.3	2259.0	2482.5	2434.6	2229.0	2129.3	2007.5	1979.6
52.5°	9407.1	2438.6	1957.6	2135.3	2394.7	2358.8	2157.2	2027.5	1899.8	1875.8
55°	9277.4	2025.5	1810.0	1997.6	2278.9	2265.0	2097.3	1923.7	1823.9	1804.0
57.5°	8628.8	1764.1	1696.2	1867.8	2137.2	2185.1	2017.5	1835.9	1764.1	1750.1
60°	7391.6	1600.4	1624.4	1780.0	2021.5	2105.3	1937.7	1788.0	1740.1	1730.2
62.5°	5735.2	1490.7	1570.5	1716.2	1931.7	2049.4	1893.8	1782.0	1764.1	1752.1
65°	4108.9	1402.9	1512.6	1652.3	1849.9	1997.6	1877.8	1774.1	1778.0	1768.1
67.5°	2791.8	1325.1	1442.8	1580.5	1770.1	1951.7	1855.9	1746.1	1796.0	1784.0
70°	1953.7	1249.2	1361.0	1488.7	1670.3	1887.8	1816.0	1704.2	1700.2	1652.3
72.5°	1524.6	1149.4	1249.2	1361.0	1542.6	1798.0	1736.1	1610.4	1544.6	1494.7
73°	1454.8	1125.5	1221.3	1333.0	1514.6	1776.1	1714.2	1584.5	1510.6	1464.7
75°	1203.3	1021.7	1109.5	1209.3	1394.9	1672.3	1606.4	1466.7	1372.9	1345.0
77.5°	945.9	874.1	957.9	1047.7	1229.3	1520.6	1446.8	1313.1	1261.2	1237.2
80°	700.4	724.4	798.2	878.0	1065.6	1359.0	1293.1	1159.4	1390.9	1333.0
82.5°	492.9	548.8	616.6	688.5	894.0	1201.3	1121.5	983.8	1017.7	846.1
85°	291.4	359.2	423.1	484.9	644.6	995.8	925.9	784.3	642.6	612.6
87.5°	169.6	199.6	217.5	281.4	443.0	750.3	652.5	580.7	333.3	225.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)