

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: P459220

Luminaire Tested: **GALN-SA7A-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29044 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

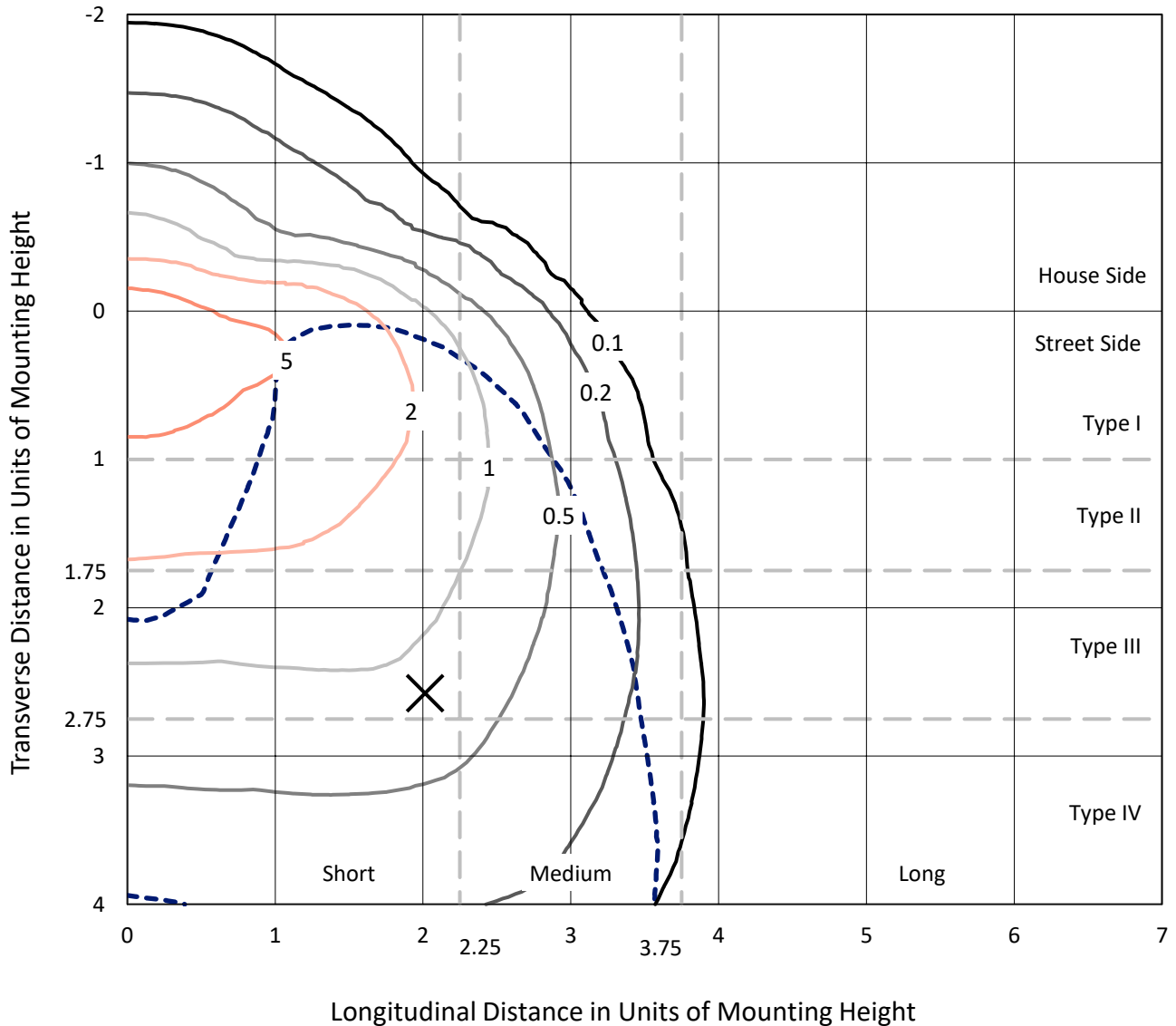
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

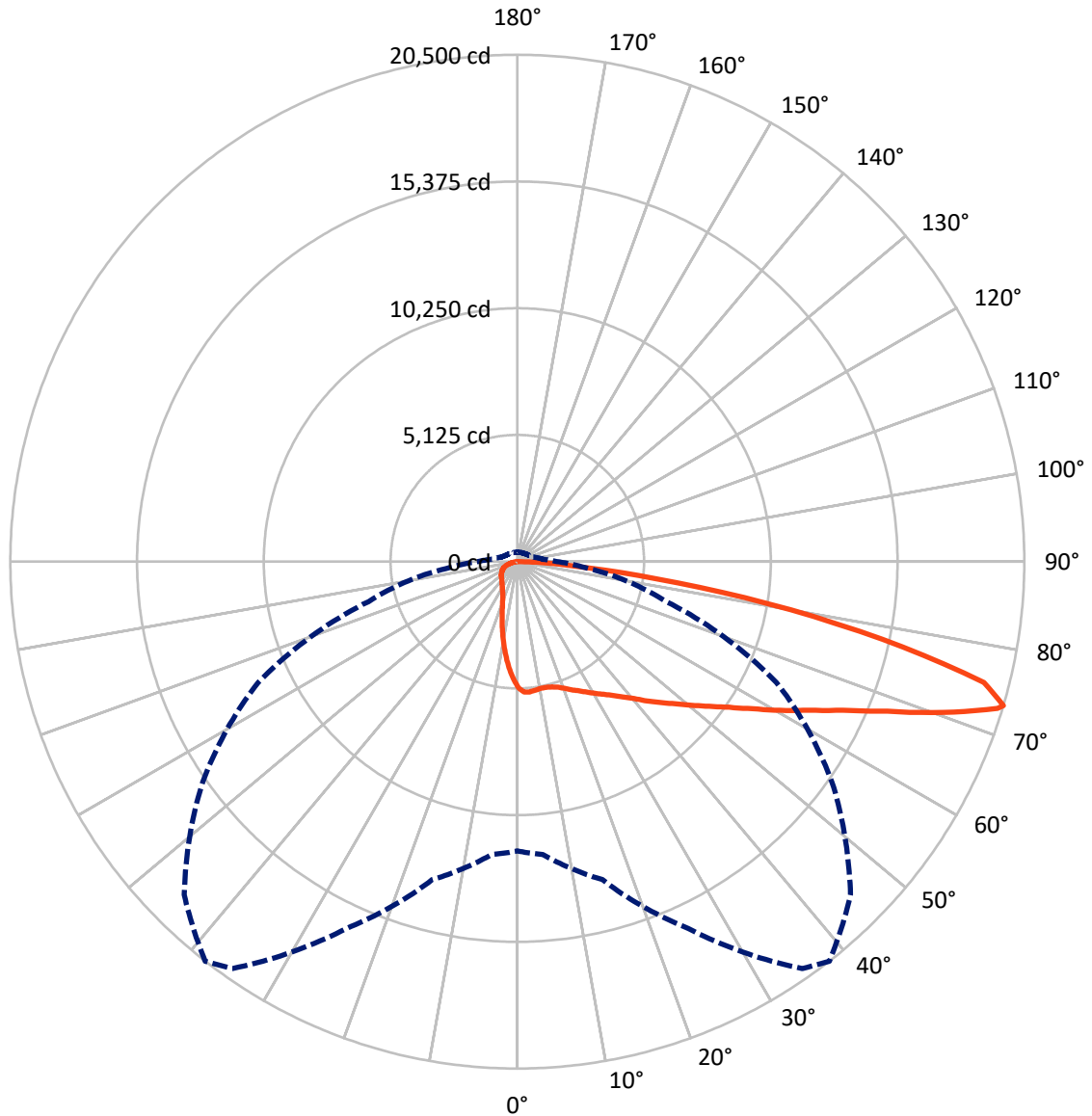
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3904.4	0.0	3904.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25139.6	0.0	25139.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	29044.0	0.0	29044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	1.5
10°-20°	1142.1	3.9
20°-30°	1778.5	6.1
30°-40°	2608.7	9.0
40°-50°	3869.7	13.3
50°-60°	5482.6	18.9
60°-70°	6954.8	23.9
70°-80°	5789.4	19.9
80°-90°	972.7	3.3
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°	29044.0	100.0
0°-180°	29044.0	100.0

Coefficient of Utilization



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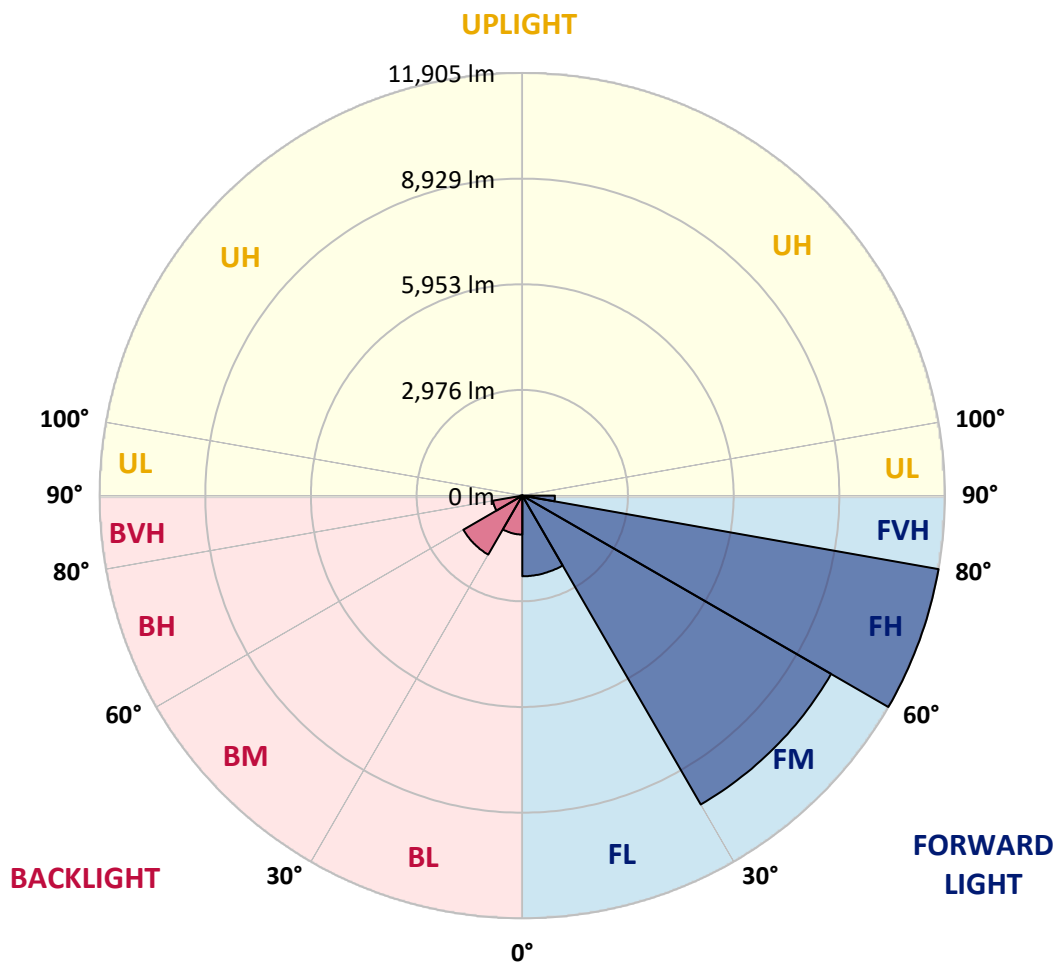
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2270.5	7.8			
FM (30°-60°)	10044.2	34.6			
FH (60°-80°)	11905.0	41.0			G4/12000
FVH (80°-90°)	920.0	3.2			G5
BL (0°-30°)	1095.6	3.8	B3/2500		
BM (30°-60°)	1916.8	6.6	B2/2500		
BH (60°-80°)	839.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	52.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5
2.5°	5307.6	5333.8	5320.7	5302.6	5291.2	5279.7	5263.3	5215.7	5178.0	5137.0	5073.0
5°	5346.9	5363.3	5351.8	5328.9	5302.6	5291.2	5260.0	5197.7	5137.0	5068.1	4973.0
7.5°	5324.0	5330.5	5317.4	5289.5	5266.6	5245.2	5209.1	5140.3	5066.5	4982.8	4858.2
10°	5242.0	5266.6	5266.6	5243.6	5220.6	5209.1	5173.1	5107.5	5040.2	4945.1	4797.5
12.5°	5174.7	5200.9	5222.3	5215.7	5214.1	5214.1	5186.2	5137.0	5058.3	4968.0	4792.5
15°	5128.8	5159.9	5205.9	5232.1	5248.5	5253.4	5242.0	5199.3	5118.9	5014.0	4812.2
17.5°	5118.9	5156.7	5240.3	5297.7	5340.4	5338.7	5335.4	5276.4	5187.8	5079.6	4836.8
20°	5163.2	5212.4	5328.9	5419.1	5481.4	5469.9	5451.9	5374.8	5271.5	5150.1	4859.8
22.5°	5296.1	5346.9	5474.9	5573.3	5634.0	5634.0	5579.8	5478.1	5368.2	5232.1	4891.0
25°	5486.3	5542.1	5678.2	5778.3	5806.2	5784.8	5730.7	5607.7	5481.4	5350.2	4956.6
27.5°	5719.2	5786.5	5912.8	5996.4	5988.2	5971.8	5916.1	5758.6	5632.3	5512.6	5068.1
30°	6009.5	6058.8	6190.0	6209.6	6180.1	6176.8	6098.1	5940.7	5822.6	5730.7	5227.2
32.5°	6283.5	6327.7	6432.7	6440.9	6388.4	6395.0	6321.2	6176.8	6109.6	6076.8	5494.5
35°	6573.8	6596.7	6686.9	6677.1	6642.6	6637.7	6608.2	6470.4	6491.8	6550.8	5873.4
37.5°	6816.5	6862.4	6913.3	6921.5	6919.8	6936.2	6955.9	6890.3	7013.3	7198.7	6370.4
40°	7039.6	7078.9	7154.4	7180.6	7244.6	7277.4	7344.6	7346.3	7630.0	7935.1	6982.2
42.5°	7190.5	7257.7	7398.8	7446.3	7602.1	7700.6	7800.6	7907.2	8318.9	8710.9	7703.8
45°	7321.7	7410.2	7644.8	7792.4	8004.0	8123.7	8335.3	8558.4	9150.5	9663.8	8437.0
47.5°	7520.1	7598.9	7867.8	8128.6	8448.5	8586.2	8902.8	9235.7	10009.9	10572.5	9139.0
50°	7795.7	7843.2	8117.2	8542.0	8950.4	9127.5	9545.7	10026.3	10928.4	11469.6	9755.7
52.5°	8148.3	8168.0	8386.1	8952.0	9490.0	9709.7	10264.1	10825.1	11732.1	12248.7	10244.4
55°	8564.9	8532.1	8702.7	9386.6	10106.7	10393.7	10989.1	11633.7	12635.8	12878.5	10600.4
57.5°	8976.6	8925.8	9061.9	9914.8	10867.7	11213.8	11907.6	12466.9	13442.8	13467.4	10849.7
60°	9412.9	9375.2	9537.5	10534.7	11801.0	12211.0	12852.3	13331.2	14223.5	13877.4	10889.0
62.5°	9860.6	9800.0	10031.2	11231.8	12852.3	13224.6	13846.2	14249.7	14989.4	14029.9	10510.1
65°	10295.3	10267.4	10625.0	12060.1	14049.6	14472.8	15076.4	15350.3	15602.8	13800.3	9570.3
67.5°	10757.8	10813.6	11384.4	13165.6	15611.0	16142.5	16793.6	16536.1	15778.3	12712.9	8059.7
70°	11463.1	11499.2	12381.6	14613.8	17623.5	18264.8	18579.7	16957.6	14932.0	10647.9	6058.8
72.5°	11766.5	11925.6	13272.2	16134.3	19909.9	20301.9	19180.0	16017.8	12439.0	7233.1	3183.6
73°	11699.3	11889.5	13313.2	16365.5	20088.7	20500.4	19052.1	15534.0	11563.1	6229.3	2729.2
75°	10861.1	11095.7	12780.1	16172.0	19741.0	19494.9	16995.3	13239.4	7813.7	2832.6	1243.2
77.5°	8569.8	8637.1	10126.3	13059.0	15545.4	15089.5	12719.4	8274.6	3191.8	1053.0	705.3
80°	4298.9	4546.5	5707.8	7480.8	10395.3	10246.1	8028.6	3913.4	1330.2	618.3	467.4
82.5°	2068.2	2243.7	2780.1	3647.7	5743.8	5607.7	3975.7	2138.8	844.7	360.8	275.5
85°	1331.8	1463.0	1769.7	1740.2	2361.8	2255.2	1786.1	1618.8	500.2	188.6	191.9
87.5°	879.1	962.8	1154.7	923.4	859.4	777.4	788.9	911.9	98.4	72.2	26.2
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°	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5	5102.5
2.5°	5046.8	5025.5	4954.9	4886.0	4820.4	4758.1	4717.1	4663.0	4626.9	4636.7	4651.5
5°	4920.5	4872.9	4748.3	4626.9	4512.1	4375.9	4266.1	4177.5	4110.2	4085.6	4080.7
7.5°	4787.6	4707.3	4528.5	4320.2	4125.0	3956.1	3760.9	3664.1	3550.9	3511.6	3498.5
10°	4707.3	4599.0	4348.1	4057.8	3764.2	3483.7	3272.1	3099.9	2944.1	2914.6	2899.8
12.5°	4684.3	4541.6	4203.7	3829.8	3439.4	3095.0	2781.7	2555.4	2404.5	2370.0	2319.2
15°	4671.2	4494.0	4069.2	3600.2	3104.8	2684.9	2355.3	2091.2	1953.4	1861.6	1863.2
17.5°	4659.7	4439.9	3918.3	3349.2	2816.2	2332.3	1968.2	1730.4	1604.1	1554.9	1550.0
20°	4643.3	4375.9	3744.5	3085.1	2486.5	2010.8	1681.2	1504.0	1418.7	1377.7	1376.1
22.5°	4636.7	4313.6	3573.9	2816.2	2194.5	1763.2	1490.9	1366.3	1312.1	1284.2	1284.2
25°	4653.1	4269.3	3395.1	2560.3	1935.4	1551.6	1359.7	1274.4	1243.2	1228.5	1223.6
27.5°	4704.0	4249.7	3218.0	2304.4	1697.6	1407.3	1271.1	1212.1	1189.1	1177.6	1179.3
30°	4800.7	4248.0	3044.1	2051.8	1520.4	1297.4	1200.6	1159.6	1141.6	1135.0	1133.4
32.5°	4956.6	4284.1	2873.6	1843.5	1371.2	1205.5	1135.0	1105.5	1097.3	1092.3	1090.7
35°	5220.6	4385.8	2704.6	1653.3	1256.4	1123.5	1072.7	1057.9	1046.4	1051.3	1053.0
37.5°	5576.5	4561.3	2543.9	1504.0	1169.4	1062.8	1020.2	1007.1	1000.5	1005.4	1010.3
40°	6053.8	4813.9	2409.4	1384.3	1107.1	1012.0	974.3	962.8	956.2	964.4	966.1
42.5°	6580.3	5105.8	2297.9	1290.8	1056.3	969.3	933.3	920.1	915.2	920.1	921.8
45°	7121.6	5445.3	2240.5	1223.6	1013.6	938.2	900.4	885.7	874.2	870.9	875.8
47.5°	7654.6	5740.6	2238.8	1182.6	979.2	910.3	869.3	852.9	838.1	829.9	828.3
50°	8089.3	5975.1	2278.2	1164.5	949.7	879.1	838.1	821.7	802.0	785.6	788.9
52.5°	8417.3	6127.6	2296.2	1156.3	933.3	846.3	805.3	790.6	767.6	746.3	746.3
55°	8628.9	6163.7	2251.9	1148.1	920.1	811.9	767.6	754.5	731.5	710.2	710.2
57.5°	8701.1	6052.2	2092.8	1128.4	907.0	782.4	729.9	718.4	700.3	679.0	675.7
60°	8533.8	5675.0	1814.0	1069.4	880.8	751.2	688.9	683.9	677.4	659.3	657.7
62.5°	7889.2	4874.6	1510.6	992.3	836.5	718.4	651.1	659.3	664.3	654.4	652.8
65°	6816.5	3957.7	1290.8	885.7	777.4	672.5	610.1	631.5	644.6	644.6	641.3
67.5°	5529.0	3039.2	1087.4	793.8	703.6	610.1	564.2	580.6	590.5	587.2	595.4
70°	3929.8	2058.4	885.7	688.9	610.1	539.6	505.2	505.2	498.6	495.3	495.3
72.5°	1905.9	1176.0	718.4	575.7	519.9	460.9	433.0	421.5	408.4	406.8	398.6
73°	1592.6	1054.6	685.6	554.4	498.6	449.4	418.2	400.2	392.0	385.4	383.8
75°	969.3	800.4	572.4	467.4	424.8	387.1	359.2	342.8	334.6	329.7	328.0
77.5°	638.0	597.0	444.5	357.6	324.8	301.8	290.3	273.9	269.0	262.4	262.4
80°	475.6	456.0	318.2	252.6	232.9	213.2	209.9	206.7	193.5	185.3	182.1
82.5°	306.7	324.8	216.5	168.9	147.6	131.2	132.9	137.8	124.7	113.2	109.9
85°	218.1	234.5	131.2	77.1	62.3	54.1	60.7	54.1	55.8	44.3	36.1
87.5°	36.1	62.3	23.0	9.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0
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)