

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: P456284

Luminaire Tested: **GALN-SA7C-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49448 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

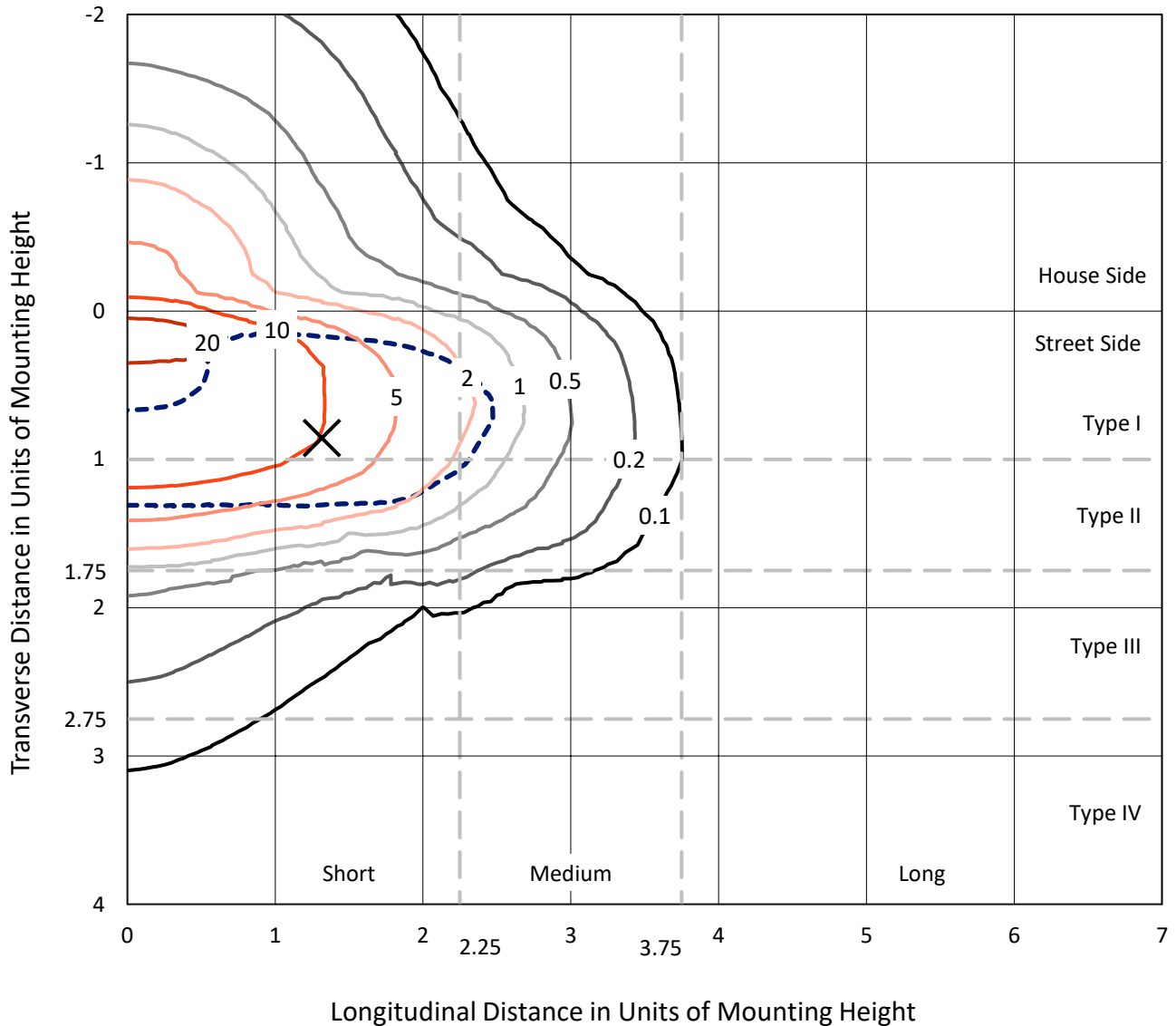
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456284
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Iso-Footcandle Lines of Horizontal Illumination

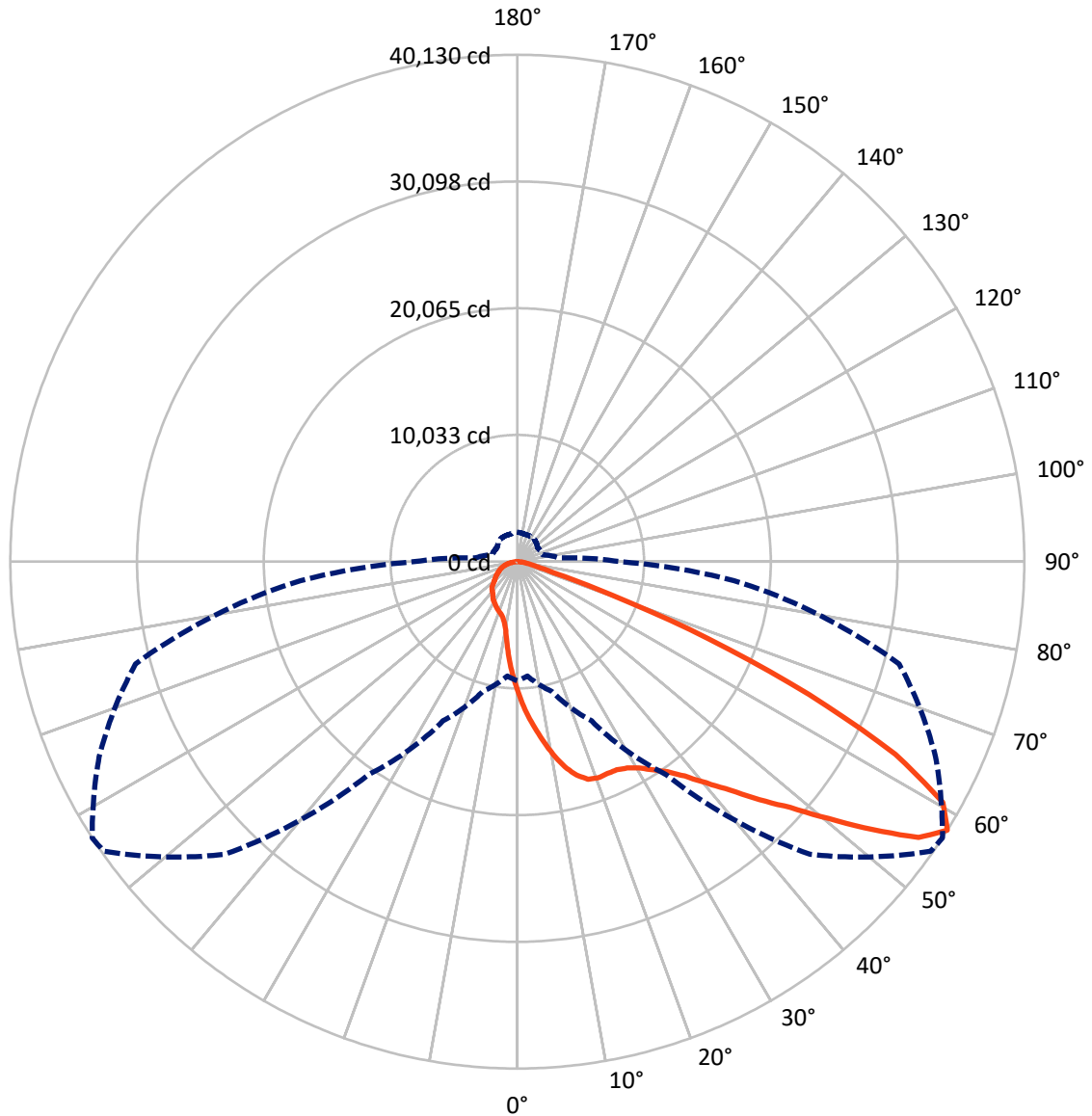
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 fc
 Type II - Short - N/A

REPORT NUMBER: P456284
CATALOG NUMBER: GALN-SA7C-740-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7519.7	0.0	7519.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	41928.4	0.0	41928.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	49448.0	0.0	49448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.4	2.0
10°-20°	2942.4	6.0
20°-30°	4886.0	9.9
30°-40°	7359.7	14.9
40°-50°	11049.9	22.3
50°-60°	12385.5	25.0
60°-70°	7248.6	14.7
70°-80°	2144.1	4.3
80°-90°	433.4	0.9
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°	49448.0	100.0
0°-180°	49448.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456284

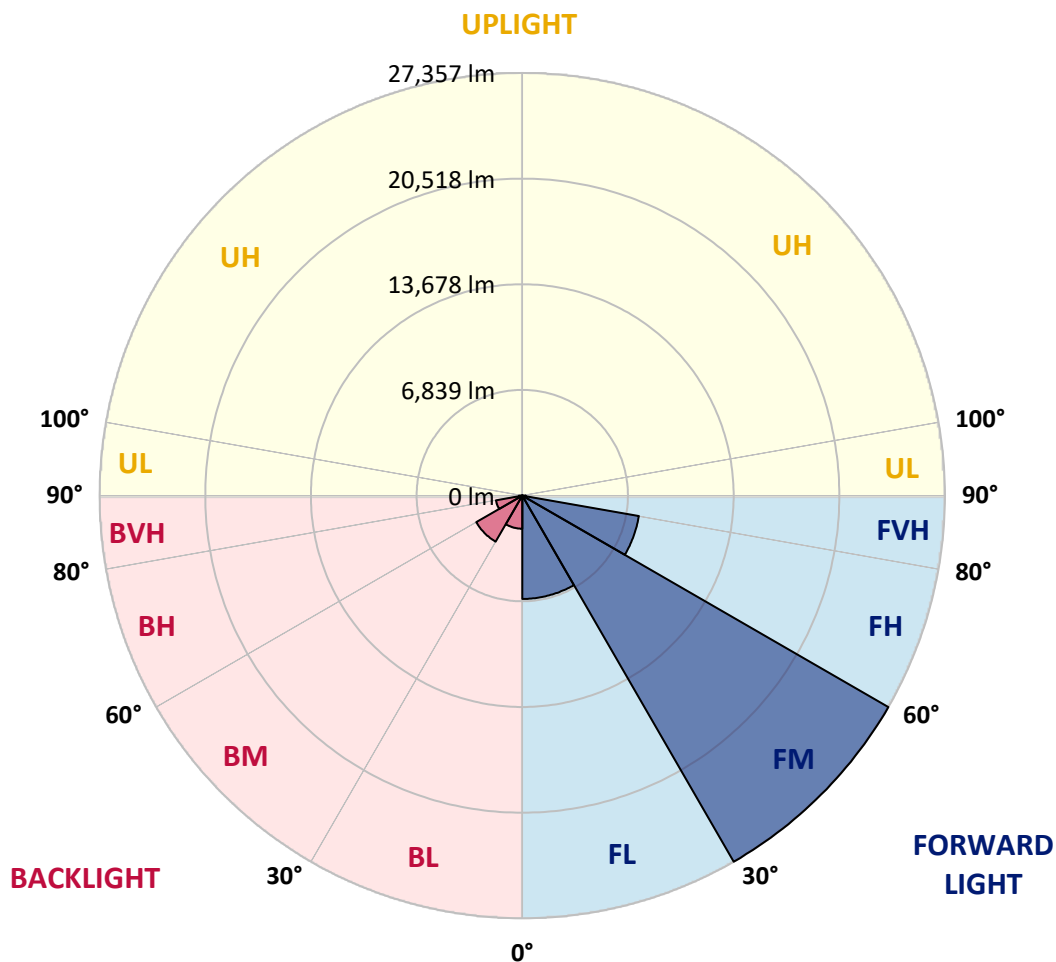
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6684.2	13.5			
FM	(30°-60°)	27356.8	55.3			
FH	(60°-80°)	7662.5	15.5			G4/12000
FVH	(80°-90°)	224.9	0.5			G2/225
BL	(0°-30°)	2142.6	4.3	B3/2500		
BM	(30°-60°)	3438.3	7.0	B3/5000		
BH	(60°-80°)	1730.2	3.5	B3/2500		G3/2500
BVH	(80°-90°)	208.5	0.4			G2/225
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





REPORT NUMBER: P456284
 CATALOG NUMBER: GALN-SA7C-740-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5
2.5°	12908.4	12767.7	12656.7	12559.3	12432.0	12088.3	11744.5	11739.1	11465.7	11043.5	10610.4
5°	15011.6	14822.1	14846.5	14543.3	14240.1	13742.1	13014.0	12976.1	12394.2	11603.8	10799.9
7.5°	16381.2	16383.9	16308.1	16134.9	15807.3	15241.6	14416.1	14229.3	13420.0	12220.9	11016.4
10°	16310.8	16383.9	16511.1	16660.0	16760.1	16481.3	15728.9	15501.5	14448.6	12968.0	11257.3
12.5°	15374.3	15488.0	15669.3	16042.8	16646.4	17106.6	16849.4	16665.4	15639.5	13712.3	11522.6
15°	14789.6	14857.3	14957.4	15209.2	15858.8	16960.4	17626.3	17528.8	16762.8	14554.1	11820.3
17.5°	14611.0	14678.6	14711.1	14865.4	15328.3	16457.0	17932.1	18105.4	17758.9	15328.3	12120.8
20°	14789.6	14822.1	14822.1	14914.1	15276.8	16161.9	17918.6	18267.8	18576.3	16256.7	12402.3
22.5°	15257.9	15271.4	15252.5	15284.9	15555.6	16243.1	17791.4	18224.5	19236.8	17044.3	12621.5
25°	16018.5	16040.1	15915.6	15839.8	16037.4	16600.4	17861.8	18259.7	19753.8	17796.8	12767.7
27.5°	16881.9	16909.0	16757.4	16581.5	16673.5	17041.6	18137.8	18495.1	20140.8	18538.4	12859.7
30°	17940.3	17951.1	17696.7	17485.5	17426.0	17699.4	18608.8	18941.7	20622.6	19412.7	12997.8
32.5°	19023.0	19104.2	18776.6	18478.9	18378.7	18462.7	19304.5	19626.6	21196.5	20352.0	13219.7
35°	20495.4	20509.0	20116.5	19753.8	19423.5	19531.8	20195.0	20427.7	21989.5	21437.4	13533.7
37.5°	22333.3	22457.8	21916.5	21239.8	20833.8	20676.8	21272.3	21526.7	23102.0	22769.1	14007.4
40°	24374.2	24420.2	23957.3	23535.1	22793.4	22338.7	22750.1	23026.2	24474.3	24357.9	14556.8
42.5°	25657.2	25757.3	25792.5	25749.2	25191.6	24428.3	24585.3	24715.2	26098.4	25849.3	15119.8
45°	26090.2	26239.1	26742.6	27809.0	27868.6	27116.1	26750.7	26875.2	27868.6	27354.3	15658.5
47.5°	25373.0	25627.4	26555.8	28742.8	30380.4	30437.3	29335.6	29062.2	29481.8	28602.1	16048.2
50°	23518.8	23573.0	24994.0	28160.9	31557.9	33612.3	32472.7	31963.9	31013.8	29525.1	16316.2
52.5°	20649.7	20712.0	21902.9	25456.9	30832.4	35831.8	36143.1	35233.6	32570.2	30242.4	16492.2
55°	15328.3	15688.3	16998.3	20433.2	27394.9	35623.4	39060.9	38543.9	34451.4	30810.8	16768.2
57.5°	9424.9	9094.6	10648.3	13901.8	20603.7	32759.6	39962.3	40130.1	36522.0	31287.2	17231.1
60°	4336.2	4401.2	5042.7	7170.1	12559.3	25627.4	37639.9	38700.9	37667.0	31270.9	17347.5
62.5°	2988.2	2928.7	2766.3	3147.9	5727.5	16207.9	31793.3	33590.6	35371.6	30299.2	16884.6
65°	2671.5	2612.0	2298.0	2192.5	2630.9	7064.6	23112.8	25381.1	29782.2	27846.9	15731.6
67.5°	2495.6	2414.4	2089.6	1883.9	1878.5	2812.3	13628.4	16359.5	22089.7	23543.2	13631.1
70°	2311.6	2246.6	1924.5	1697.1	1599.7	1767.5	5990.0	7841.4	14343.0	16965.8	10618.5
72.5°	2127.5	2051.7	1762.1	1518.5	1391.3	1323.6	2295.3	2985.5	8104.0	10171.9	6509.7
75°	1859.5	1821.6	1575.3	1375.0	1237.0	1069.2	1456.2	1661.9	3876.0	4671.8	3267.0
77.5°	1626.7	1586.1	1399.4	1201.8	1101.6	868.9	1034.0	1128.7	1634.9	1894.7	1475.2
80°	1191.0	1231.6	1180.1	1061.0	982.5	682.1	695.6	774.1	971.7	1074.6	901.3
82.5°	755.2	831.0	909.5	817.4	744.4	538.6	481.8	511.6	663.2	703.8	400.6
85°	316.7	322.1	527.8	498.0	425.0	319.4	289.6	305.9	354.6	370.8	186.8
87.5°	121.8	119.1	186.8	173.2	132.6	92.0	92.0	102.9	140.8	129.9	59.5
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°	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5	10388.5
2.5°	10423.6	10231.5	9849.8	9376.1	9029.7	8639.9	8296.2	8049.8	7957.8	7914.5	7833.3
5°	10415.5	10036.6	9246.2	8418.0	7752.1	7070.0	6493.5	6119.9	6087.5	5838.4	5814.1
7.5°	10418.2	9839.0	8580.4	7362.3	6347.3	5649.0	5172.6	5048.1	4899.2	4861.3	4880.2
10°	10426.4	9587.3	7865.8	6317.5	5335.0	4877.5	4698.9	4650.2	4655.6	4671.8	4674.5
12.5°	10437.2	9343.7	7124.1	5524.5	4766.6	4577.1	4558.1	4601.5	4647.5	4682.7	4690.8
15°	10450.7	9064.9	6401.4	4885.7	4482.4	4466.1	4528.4	4601.5	4666.4	4717.8	4726.0
17.5°	10434.5	8740.1	5795.1	4493.2	4325.4	4403.9	4506.7	4598.7	4658.3	4707.0	4712.4
20°	10396.6	8377.4	5210.5	4217.1	4227.9	4355.1	4466.1	4552.7	4617.7	4642.1	4661.0
22.5°	10250.4	7944.3	4701.6	4003.3	4111.5	4287.5	4420.1	4471.5	4398.4	4347.0	4360.6
25°	10001.4	7381.3	4227.9	3830.0	4006.0	4192.7	4328.1	4203.6	4144.0	4122.4	4133.2
27.5°	9690.1	6764.1	3870.6	3648.7	3870.6	4087.2	4049.3	4027.6	4000.6	3965.4	3973.5
30°	9354.5	6160.5	3567.5	3507.9	3724.5	3849.0	3865.2	3900.4	3870.6	3816.5	3838.2
32.5°	9043.2	5592.1	3337.4	3388.8	3621.6	3602.7	3724.5	3765.1	3627.0	3445.7	3453.8
35°	8777.9	5064.3	3164.2	3272.4	3445.7	3453.8	3575.6	3434.8	3286.0	3199.4	3204.8
37.5°	8577.7	4652.9	3050.5	3172.3	3221.0	3323.9	3258.9	3185.8	3166.9	3107.3	3110.0
40°	8458.6	4292.9	2977.4	3093.8	3085.7	3156.1	2947.6	3020.7	3047.8	3028.8	3031.5
42.5°	8339.5	4038.5	2901.6	2985.5	2982.8	2844.8	2798.8	2861.0	2931.4	2939.5	2934.1
45°	8244.7	3840.9	2823.1	2820.4	2874.6	2658.0	2644.5	2682.4	2782.5	2831.2	2828.5
47.5°	8139.2	3675.7	2704.0	2628.2	2644.5	2541.6	2520.0	2536.2	2658.0	2736.5	2758.2
50°	8006.5	3510.6	2555.2	2452.3	2384.6	2433.4	2438.8	2441.5	2563.3	2652.6	2671.5
52.5°	7901.0	3386.1	2384.6	2308.8	2227.6	2335.9	2376.5	2381.9	2455.0	2528.1	2541.6
55°	7963.2	3315.8	2216.8	2162.7	2089.6	2235.8	2314.3	2325.1	2341.3	2395.5	2403.6
57.5°	8150.0	3332.0	2081.5	2011.1	1957.0	2116.7	2249.3	2257.4	2246.6	2311.6	2322.4
60°	8206.8	3323.9	1981.3	1843.3	1810.8	1989.5	2154.6	2170.8	2168.1	2262.8	2281.8
62.5°	7968.6	3221.0	1881.2	1702.5	1680.9	1859.5	2021.9	2086.9	2100.4	2235.8	2260.1
65°	7408.3	3009.9	1748.6	1553.7	1553.7	1721.5	1894.7	1984.0	2021.9	2203.3	2230.4
67.5°	6669.4	2760.9	1613.2	1426.5	1421.0	1588.9	1759.4	1851.4	1911.0	2157.3	2173.5
70°	5535.3	2425.2	1445.4	1288.4	1288.4	1440.0	1594.3	1705.2	1791.9	2070.7	2070.7
72.5°	3792.1	2016.5	1242.4	1131.4	1134.1	1274.9	1431.9	1556.4	1659.2	1897.4	1902.8
75°	2398.2	1575.3	1020.4	963.6	974.4	1107.1	1269.5	1399.4	1605.1	1875.8	1883.9
77.5°	1274.9	1107.1	812.0	798.5	812.0	933.8	1115.2	1293.8	1610.5	1626.7	1599.7
80°	825.6	785.0	641.5	614.4	619.8	752.5	993.4	1228.9	1293.8	1310.1	1250.5
82.5°	449.3	498.0	454.7	427.7	427.7	587.4	847.2	977.1	928.4	771.4	736.2
85°	192.2	232.8	235.5	205.7	197.6	362.7	568.4	533.2	495.3	473.7	468.3
87.5°	54.1	75.8	75.8	56.8	43.3	100.1	113.7	32.5	0.0	2.7	5.4
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)