

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: P459474

Luminaire Tested: **GALN-SA9B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459474
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-SA9B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48524 lumens
Efficiency: N/A
Efficacy: 133.3 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

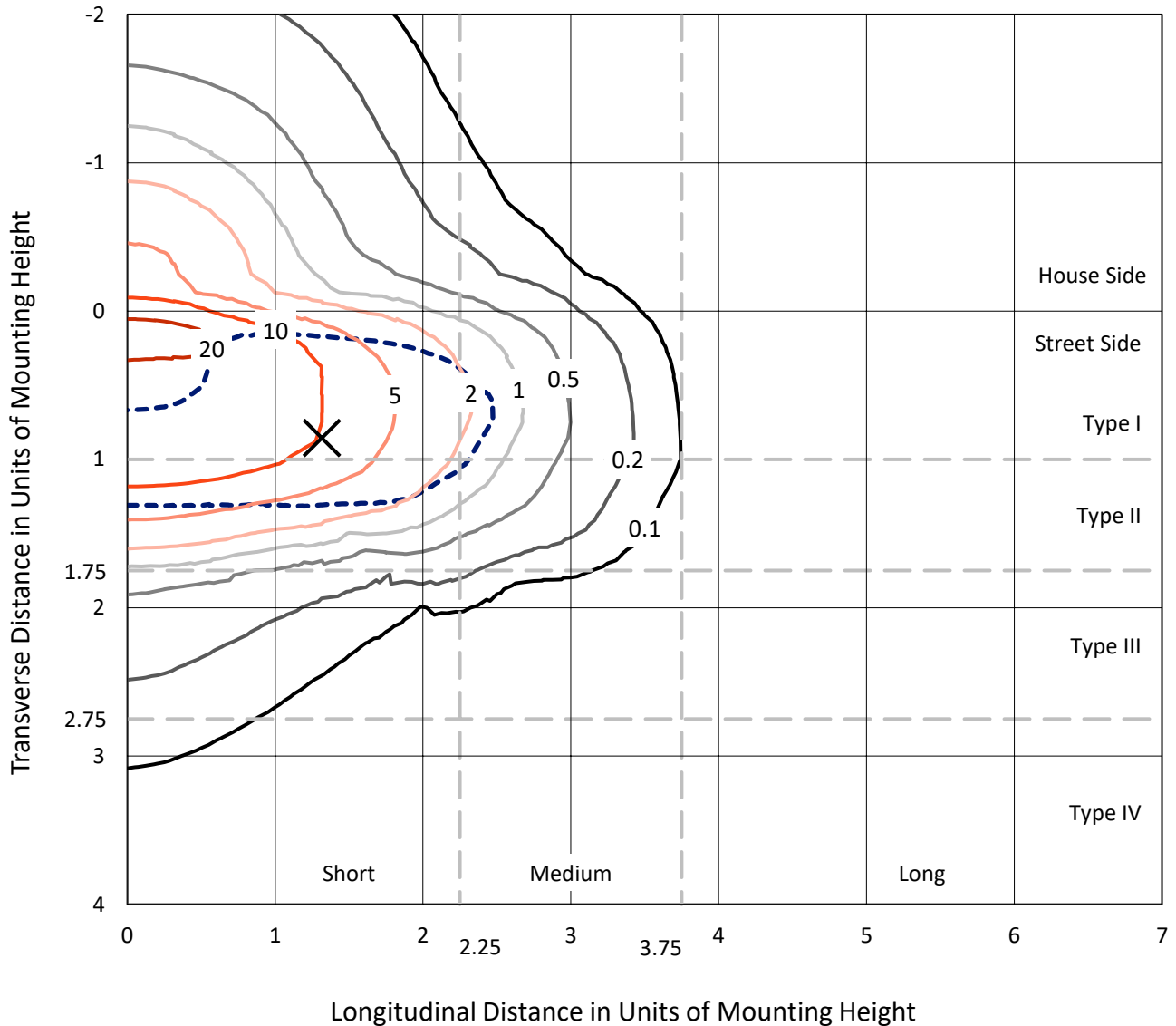
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

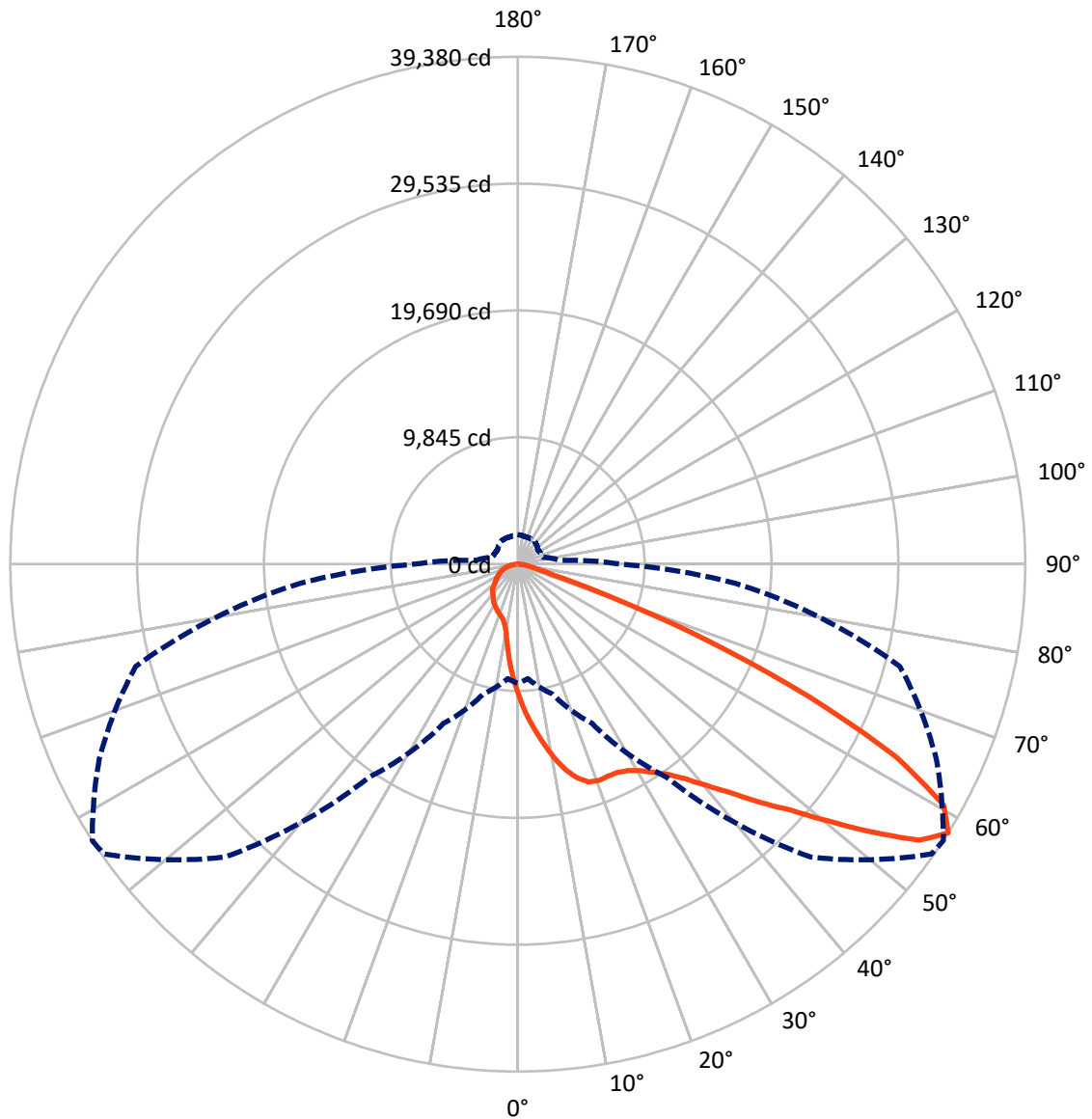
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Short - N/A

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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	7379.1	0.0	7379.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	41144.9	0.0	41144.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	48524.0	0.0	48524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	979.8	2.0
10°-20°	2887.5	6.0
20°-30°	4794.7	9.9
30°-40°	7222.2	14.9
40°-50°	10843.4	22.3
50°-60°	12154.1	25.0
60°-70°	7113.2	14.7
70°-80°	2104.0	4.3
80°-90°	425.3	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°	48524.0	100.0
0°-180°	48524.0	100.0

Coefficient of Utilization



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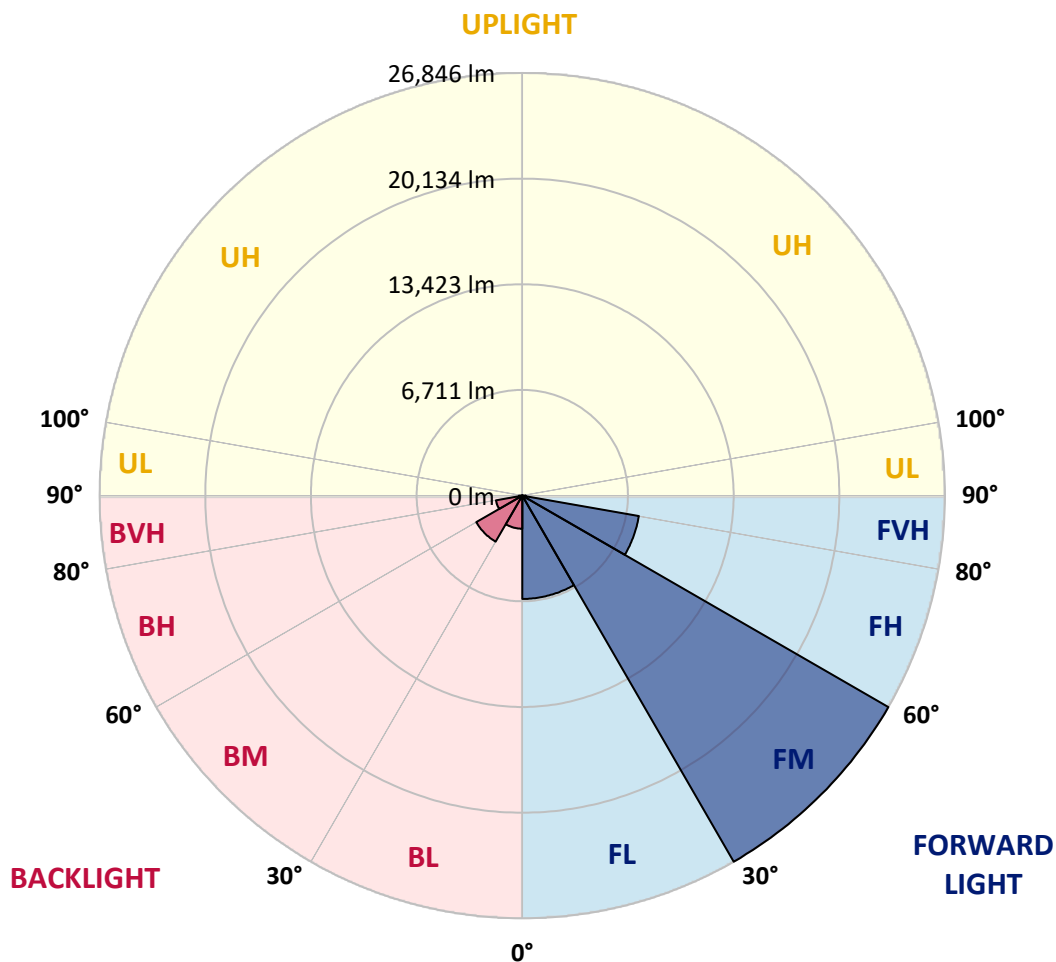
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6559.3	13.5			
FM	(30°-60°)	26845.6	55.3			
FH	(60°-80°)	7519.3	15.5			G4/12000
FVH	(80°-90°)	220.7	0.5			G2/225
BL	(0°-30°)	2102.6	4.3	B3/2500		
BM	(30°-60°)	3374.0	7.0	B3/5000		
BH	(60°-80°)	1697.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	204.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3
2.5°	12667.2	12529.1	12420.2	12324.6	12199.7	11862.4	11525.1	11519.8	11251.5	10837.1	10412.1
5°	14731.1	14545.1	14569.0	14271.5	13974.1	13485.3	12770.8	12733.6	12162.6	11387.0	10598.1
7.5°	16075.1	16077.7	16003.4	15833.4	15512.0	14956.8	14146.7	13963.4	13169.2	11992.6	10810.6
10°	16006.0	16077.7	16202.6	16348.7	16446.9	16173.4	15434.9	15211.8	14178.6	12725.7	11047.0
12.5°	15087.0	15198.5	15376.5	15743.1	16335.4	16786.9	16534.6	16354.0	15347.3	13456.1	11307.3
15°	14513.3	14579.7	14677.9	14925.0	15562.4	16643.5	17296.9	17201.3	16449.6	14282.2	11599.4
17.5°	14337.9	14404.3	14436.2	14587.6	15041.8	16149.4	17597.1	17767.0	17427.1	15041.8	11894.3
20°	14513.3	14545.1	14545.1	14635.4	14991.4	15859.9	17583.8	17926.4	18229.2	15952.9	12170.5
22.5°	14972.8	14986.0	14967.5	14999.3	15264.9	15939.6	17458.9	17883.9	18877.3	16725.8	12385.7
25°	15719.1	15740.4	15618.2	15543.8	15737.7	16290.2	17528.0	17918.4	19384.6	17464.2	12529.1
27.5°	16566.5	16593.0	16444.3	16271.6	16361.9	16723.2	17798.9	18149.5	19764.5	18192.0	12619.4
30°	17605.0	17615.6	17366.0	17158.8	17100.3	17368.6	18261.1	18587.8	20237.3	19050.0	12754.9
32.5°	18667.5	18747.2	18425.8	18133.6	18035.3	18117.7	18943.7	19259.8	20800.4	19971.7	12972.7
35°	20112.4	20125.7	19740.6	19384.6	19060.6	19166.8	19817.6	20046.0	21578.6	21036.8	13280.8
37.5°	21916.0	22038.1	21506.9	20842.9	20444.5	20290.4	20874.8	21124.4	22670.3	22343.6	13745.6
40°	23918.7	23963.9	23509.7	23095.3	22367.5	21921.3	22325.0	22595.9	24017.0	23902.8	14284.8
42.5°	25177.7	25276.0	25310.5	25268.0	24720.9	23971.8	24125.9	24253.4	25610.7	25366.3	14837.3
45°	25602.7	25748.8	26242.8	27289.4	27347.8	26609.4	26250.8	26373.0	27347.8	26843.1	15365.9
47.5°	24898.8	25148.5	26059.6	28205.7	29812.7	29868.5	28787.4	28519.2	28930.9	28067.6	15748.4
50°	23079.4	23132.5	24527.0	27634.7	30968.2	32984.2	31865.9	31366.6	30434.3	28973.4	16011.3
52.5°	20263.8	20324.9	21493.6	24981.2	30256.3	35162.2	35467.7	34575.2	31961.6	29677.3	16184.0
55°	15041.8	15395.1	16680.7	20051.3	26883.0	34957.7	38331.0	37823.7	33807.6	30235.1	16454.9
57.5°	9248.7	8924.7	10449.3	13642.0	20218.7	32147.5	39215.5	39380.2	35839.5	30702.5	16909.1
60°	4255.2	4318.9	4948.4	7036.2	12324.6	25148.5	36936.5	37977.8	36963.1	30686.6	17023.3
62.5°	2932.4	2874.0	2714.6	3089.1	5620.4	15905.1	31199.2	32962.9	34710.7	29733.0	16569.1
65°	2621.6	2563.2	2255.1	2151.5	2581.8	6932.6	22680.9	24906.8	29225.7	27326.6	15437.6
67.5°	2449.0	2369.3	2050.6	1848.7	1843.4	2759.7	13373.8	16053.8	21676.9	23103.3	13376.4
70°	2268.4	2204.6	1888.5	1665.4	1569.8	1734.5	5878.1	7694.9	14075.0	16648.8	10420.1
72.5°	2087.7	2013.4	1729.2	1490.1	1365.3	1298.9	2252.4	2929.7	7952.5	9981.8	6388.1
75°	1824.8	1787.6	1545.9	1349.3	1213.9	1049.2	1429.0	1630.9	3803.6	4584.5	3206.0
77.5°	1596.4	1556.5	1373.2	1179.3	1081.1	852.6	1014.7	1107.6	1604.3	1859.3	1447.6
80°	1168.7	1208.6	1158.1	1041.2	964.2	669.4	682.6	759.7	953.6	1054.5	884.5
82.5°	741.1	815.4	892.5	802.2	730.4	528.6	472.8	502.0	650.8	690.6	393.1
85°	310.8	316.1	518.0	488.7	417.0	313.4	284.2	300.1	348.0	363.9	183.3
87.5°	119.5	116.9	183.3	170.0	130.2	90.3	90.3	100.9	138.1	127.5	58.4
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°	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3	10194.3
2.5°	10228.9	10040.3	9665.8	9200.9	8860.9	8478.5	8141.1	7899.4	7809.1	7766.6	7686.9
5°	10220.9	9849.0	9073.4	8260.7	7607.2	6937.9	6372.1	6005.6	5973.7	5729.3	5705.4
7.5°	10223.6	9655.1	8420.0	7224.8	6228.7	5543.4	5075.9	4953.7	4807.6	4770.5	4789.1
10°	10231.5	9408.1	7718.8	6199.5	5235.3	4786.4	4611.1	4563.3	4568.6	4584.5	4587.2
12.5°	10242.1	9169.1	6991.0	5421.2	4677.5	4491.6	4473.0	4515.5	4560.6	4595.2	4603.1
15°	10255.4	8895.5	6281.8	4794.4	4398.6	4382.7	4443.8	4515.5	4579.2	4629.7	4637.7
17.5°	10239.5	8576.7	5686.8	4409.2	4244.5	4321.6	4422.5	4512.8	4571.2	4619.1	4624.4
20°	10202.3	8220.8	5113.1	4138.3	4148.9	4273.8	4382.7	4467.7	4531.4	4555.3	4573.9
22.5°	10058.9	7795.8	4613.7	3928.5	4034.7	4207.4	4337.5	4388.0	4316.3	4265.8	4279.1
25°	9814.5	7243.3	4148.9	3758.5	3931.1	4114.4	4247.2	4125.0	4066.6	4045.3	4056.0
27.5°	9509.0	6637.7	3798.3	3580.5	3798.3	4010.8	3973.6	3952.4	3925.8	3891.3	3899.2
30°	9179.7	6045.4	3500.8	3442.4	3654.9	3777.1	3793.0	3827.5	3798.3	3745.2	3766.4
32.5°	8874.2	5487.6	3275.0	3325.5	3553.9	3535.3	3654.9	3694.7	3559.3	3381.3	3389.3
35°	8613.9	4969.7	3105.0	3211.3	3381.3	3389.3	3508.8	3370.7	3224.6	3139.6	3144.9
37.5°	8417.4	4565.9	2993.5	3113.0	3160.8	3261.8	3198.0	3126.3	3107.7	3049.3	3051.9
40°	8300.5	4212.7	2921.8	3036.0	3028.0	3097.1	2892.6	2964.3	2990.8	2972.2	2974.9
42.5°	8183.6	3963.0	2847.4	2929.7	2927.1	2791.6	2746.5	2807.6	2876.6	2884.6	2879.3
45°	8090.7	3769.1	2770.4	2767.7	2820.8	2608.3	2595.1	2632.3	2730.5	2778.3	2775.7
47.5°	7987.1	3607.1	2653.5	2579.1	2595.1	2494.1	2472.9	2488.8	2608.3	2685.4	2706.6
50°	7856.9	3445.0	2507.4	2406.5	2340.1	2387.9	2393.2	2395.9	2515.4	2603.0	2621.6
52.5°	7753.3	3322.9	2340.1	2265.7	2186.0	2292.3	2332.1	2337.4	2409.1	2480.9	2494.1
55°	7814.4	3253.8	2175.4	2122.3	2050.6	2194.0	2271.0	2281.6	2297.6	2350.7	2358.7
57.5°	7997.7	3269.7	2042.6	1973.5	1920.4	2077.1	2207.3	2215.2	2204.6	2268.4	2279.0
60°	8053.5	3261.8	1944.3	1808.8	1777.0	1952.3	2114.3	2130.2	2127.6	2220.5	2239.1
62.5°	7819.7	3160.8	1846.0	1670.7	1649.5	1824.8	1984.2	2047.9	2061.2	2194.0	2217.9
65°	7269.9	2953.6	1715.9	1524.6	1524.6	1689.3	1859.3	1947.0	1984.2	2162.1	2188.7
67.5°	6544.8	2709.3	1583.1	1399.8	1394.5	1559.2	1726.5	1816.8	1875.2	2117.0	2132.9
70°	5431.8	2379.9	1418.4	1264.3	1264.3	1413.1	1564.5	1673.4	1758.4	2032.0	2032.0
72.5°	3721.3	1978.8	1219.2	1110.3	1112.9	1251.1	1405.1	1527.3	1628.2	1862.0	1867.3
75°	2353.4	1545.9	1001.4	945.6	956.2	1086.4	1245.7	1373.2	1575.1	1840.7	1848.7
77.5°	1251.1	1086.4	796.8	783.6	796.8	916.4	1094.3	1269.6	1580.4	1596.4	1569.8
80°	810.1	770.3	629.5	602.9	608.3	738.4	974.8	1205.9	1269.6	1285.6	1227.1
82.5°	440.9	488.7	446.2	419.7	419.7	576.4	831.4	958.9	911.1	757.0	722.5
85°	188.6	228.4	231.1	201.9	193.9	355.9	557.8	523.3	486.1	464.8	459.5
87.5°	53.1	74.4	74.4	55.8	42.5	98.3	111.6	31.9	0.0	2.7	5.3
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)