

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: P456516

Luminaire Tested: **GALN-SA7D-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456516
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-SA7D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54410 lumens
Efficiency: N/A
Efficacy: 125.7 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

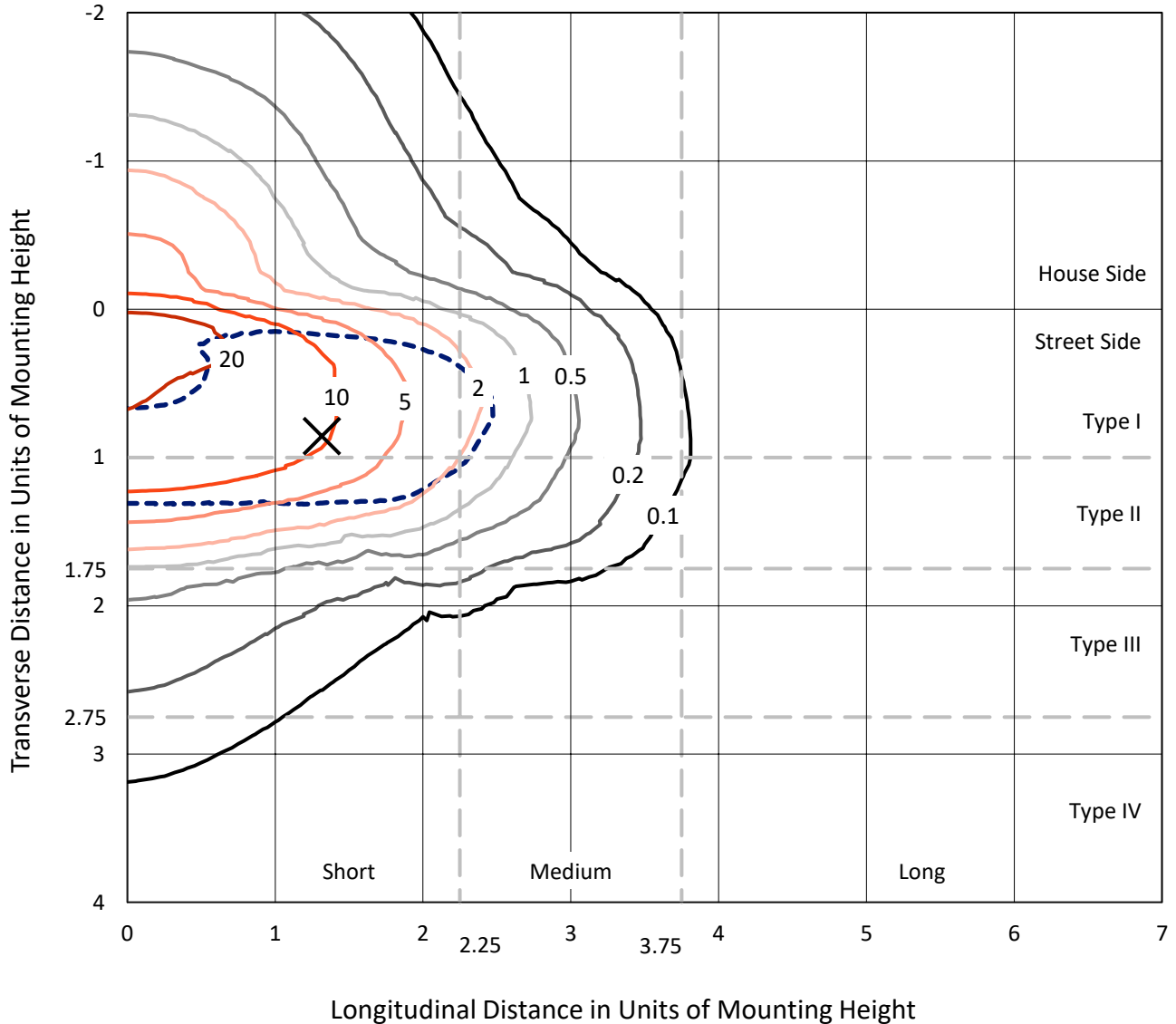
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

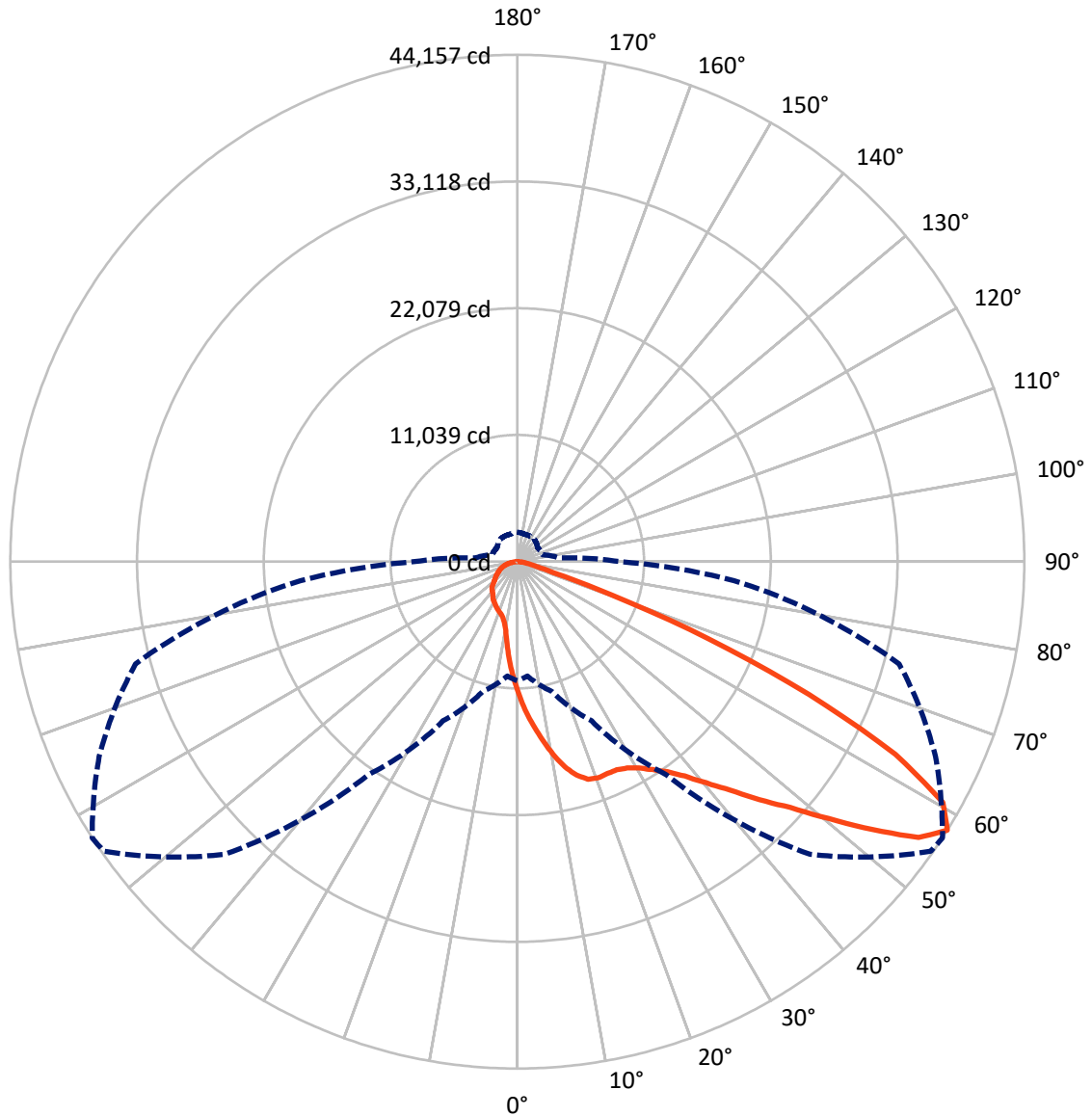
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.8 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	8274.2	0.0	8274.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	46135.8	0.0	46135.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	54410.0	0.0	54410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1098.6	2.0
10°-20°	3237.7	6.0
20°-30°	5376.3	9.9
30°-40°	8098.2	14.9
40°-50°	12158.7	22.3
50°-60°	13628.4	25.0
60°-70°	7976.0	14.7
70°-80°	2359.2	4.3
80°-90°	476.9	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°	54410.0	100.0
0°-180°	54410.0	100.0

Coefficient of Utilization



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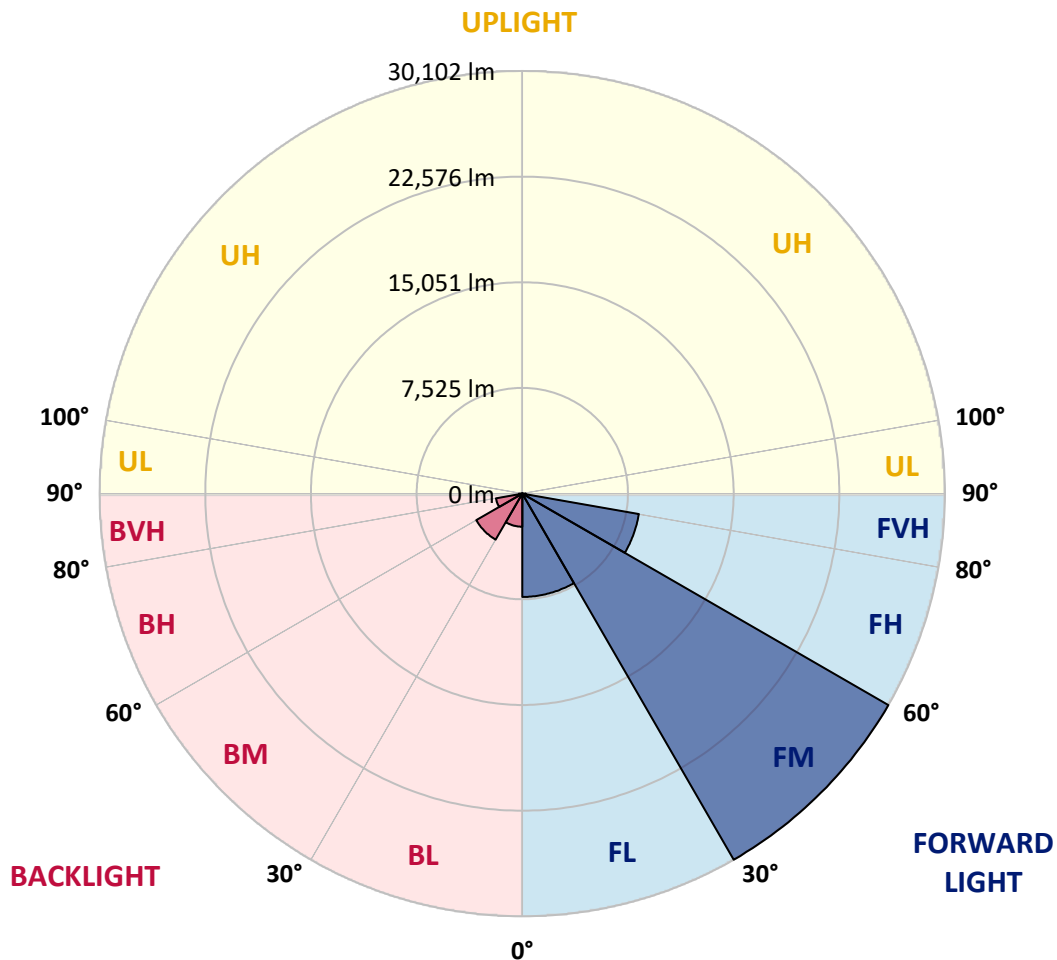
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7355.0	13.5			
FM	(30°-60°)	30102.0	55.3			
FH	(60°-80°)	8431.4	15.5			G4/12000
FVH	(80°-90°)	247.4	0.5			G3/500
BL	(0°-30°)	2357.6	4.3	B3/2500		
BM	(30°-60°)	3783.3	7.0	B3/5000		
BH	(60°-80°)	1903.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	229.4	0.4			G3/500
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°	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9
2.5°	14203.8	14048.9	13926.8	13819.6	13679.6	13301.3	12923.1	12917.1	12616.3	12151.7	11675.1
5°	16517.9	16309.5	16336.3	16002.7	15669.1	15121.1	14319.9	14278.2	13637.9	12768.2	11883.6
7.5°	18025.0	18028.0	17944.6	17754.0	17393.6	16771.1	15862.7	15657.2	14766.7	13447.3	12121.9
10°	17947.6	18028.0	18168.0	18331.8	18442.0	18135.2	17307.2	17057.0	15898.4	14269.3	12387.0
12.5°	16917.0	17042.1	17241.7	17652.7	18316.9	18823.2	18540.2	18337.7	17208.9	15088.3	12678.8
15°	16273.7	16348.2	16458.4	16735.4	17450.2	18662.4	19395.0	19287.8	18444.9	16014.6	13006.5
17.5°	16077.1	16151.6	16187.3	16357.1	16866.4	18108.4	19731.6	19922.2	19541.0	16866.4	13337.1
20°	16273.7	16309.5	16309.5	16410.7	16809.8	17783.7	19716.7	20100.9	20440.4	17888.0	13646.8
22.5°	16789.0	16803.9	16783.0	16818.8	17116.6	17873.1	19576.7	20053.2	21167.2	18754.7	13888.1
25°	17625.9	17649.7	17512.7	17429.3	17646.7	18266.2	19654.2	20092.0	21736.0	19582.7	14048.9
27.5°	18576.0	18605.8	18439.0	18245.4	18346.7	18751.7	19957.9	20351.1	22161.9	20398.7	14150.2
30°	19740.5	19752.4	19472.5	19240.2	19174.6	19475.4	20476.2	20842.5	22692.1	21360.7	14302.1
32.5°	20931.9	21021.2	20660.8	20333.2	20223.0	20315.3	21241.6	21596.0	23323.5	22394.2	14546.3
35°	22552.1	22567.0	22135.1	21736.0	21372.7	21491.8	22221.5	22477.6	24196.1	23588.6	14891.8
37.5°	24574.4	24711.4	24115.7	23371.1	22924.4	22751.6	23406.9	23686.8	25420.2	25053.9	15413.0
40°	26820.1	26870.7	26361.4	25896.8	25080.7	24580.3	25033.1	25336.8	26930.3	26802.2	16017.6
42.5°	28231.8	28342.0	28380.7	28333.1	27719.5	26879.6	27052.4	27195.3	28717.3	28443.3	16637.1
45°	28708.3	28872.2	29426.1	30599.6	30665.1	29837.1	29435.1	29572.1	30665.1	30099.2	17229.8
47.5°	27919.1	28199.0	29220.6	31627.1	33429.0	33491.6	32279.4	31978.6	32440.2	31472.3	17658.7
50°	25878.9	25938.5	27502.1	30986.8	34724.6	36985.2	35731.3	35171.4	34126.0	32487.9	17953.5
52.5°	22721.9	22790.4	24100.8	28011.4	33926.4	39427.4	39769.9	38769.2	35838.5	33277.1	18147.1
55°	16866.4	17262.5	18704.1	22483.6	30143.9	39198.1	42980.6	42411.7	37908.5	33902.6	18450.9
57.5°	10370.6	10007.3	11716.8	15296.8	22671.2	36047.0	43972.4	44157.1	40186.9	34426.8	18960.2
60°	4771.3	4842.8	5548.7	7889.7	13819.6	28199.0	41417.0	42584.5	41446.8	34408.9	19088.3
62.5°	3288.1	3222.6	3043.9	3463.8	6302.2	17834.4	34983.7	36961.4	38921.1	33339.7	18579.0
65°	2939.6	2874.1	2528.6	2412.5	2895.0	7773.5	25432.2	27928.0	32770.8	30641.3	17310.2
67.5°	2746.0	2656.7	2299.3	2072.9	2067.0	3094.5	14996.0	18001.2	24306.3	25905.7	14999.0
70°	2543.5	2472.0	2117.6	1867.4	1760.2	1944.9	6591.1	8628.3	15782.3	18668.3	11684.1
72.5°	2341.0	2257.6	1938.9	1670.9	1530.9	1456.4	2525.6	3285.1	8917.2	11192.7	7162.9
75°	2046.1	2004.4	1733.4	1513.0	1361.1	1176.4	1602.4	1828.7	4265.0	5140.6	3594.9
77.5°	1790.0	1745.3	1539.8	1322.4	1212.2	956.1	1137.7	1242.0	1798.9	2084.8	1623.2
80°	1310.5	1355.2	1298.6	1167.5	1081.1	750.5	765.4	851.8	1069.2	1182.4	991.8
82.5°	831.0	914.4	1000.7	899.5	819.0	592.7	530.1	562.9	729.7	774.4	440.8
85°	348.5	354.4	580.8	548.0	467.6	351.4	318.7	336.6	390.2	408.0	205.5
87.5°	134.0	131.0	205.5	190.6	145.9	101.3	101.3	113.2	154.9	143.0	65.5
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°	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9
2.5°	11469.6	11258.2	10838.2	10317.0	9935.8	9506.9	9128.7	8857.6	8756.4	8708.7	8619.4
5°	11460.7	11043.7	10174.1	9262.7	8530.0	7779.5	7145.1	6734.1	6698.3	6424.3	6397.5
7.5°	11463.7	10826.3	9441.4	8101.1	6984.2	6215.8	5691.6	5554.6	5390.8	5349.1	5370.0
10°	11472.6	10549.3	8655.1	6951.5	5870.3	5367.0	5170.4	5116.8	5122.8	5140.6	5143.6
12.5°	11484.5	10281.3	7839.0	6078.8	5244.9	5036.4	5015.5	5063.2	5113.8	5152.6	5161.5
15°	11499.4	9974.5	7043.8	5375.9	4932.2	4914.3	4982.8	5063.2	5134.7	5191.3	5200.2
17.5°	11481.6	9617.1	6376.7	4944.1	4759.4	4845.8	4959.0	5060.2	5125.7	5179.4	5185.3
20°	11439.9	9218.0	5733.3	4640.3	4652.2	4792.2	4914.3	5009.6	5081.1	5107.9	5128.7
22.5°	11279.0	8741.5	5173.4	4405.0	4524.1	4717.7	4863.7	4920.2	4839.8	4783.2	4798.1
25°	11005.0	8122.0	4652.2	4214.4	4408.0	4613.5	4762.4	4625.4	4559.9	4536.0	4547.9
27.5°	10662.5	7442.9	4259.0	4014.8	4259.0	4497.3	4455.6	4431.8	4402.0	4363.3	4372.2
30°	10293.2	6778.7	3925.5	3859.9	4098.2	4235.2	4253.1	4291.8	4259.0	4199.5	4223.3
32.5°	9950.7	6153.3	3672.3	3728.9	3985.0	3964.2	4098.2	4142.9	3991.0	3791.4	3800.4
35°	9658.8	5572.5	3481.7	3600.8	3791.4	3800.4	3934.4	3779.5	3615.7	3520.4	3526.4
37.5°	9438.4	5119.8	3356.6	3490.6	3544.2	3657.4	3585.9	3505.5	3484.7	3419.1	3422.1
40°	9307.4	4723.7	3276.2	3404.3	3395.3	3472.8	3243.4	3323.8	3353.6	3332.8	3335.8
42.5°	9176.3	4443.7	3192.8	3285.1	3282.1	3130.2	3079.6	3148.1	3225.6	3234.5	3228.5
45°	9072.1	4226.3	3106.4	3103.4	3163.0	2924.7	2909.9	2951.5	3061.7	3115.4	3112.4
47.5°	8955.9	4044.6	2975.4	2892.0	2909.9	2796.7	2772.8	2790.7	2924.7	3011.1	3034.9
50°	8810.0	3862.9	2811.6	2698.4	2623.9	2677.5	2683.5	2686.5	2820.5	2918.8	2939.6
52.5°	8693.8	3725.9	2623.9	2540.5	2451.2	2570.3	2615.0	2621.0	2701.4	2781.8	2796.7
55°	8762.3	3648.5	2439.3	2379.7	2299.3	2460.1	2546.5	2558.4	2576.3	2635.8	2644.8
57.5°	8967.8	3666.4	2290.4	2212.9	2153.3	2329.1	2475.0	2483.9	2472.0	2543.5	2555.4
60°	9030.4	3657.4	2180.2	2028.3	1992.5	2189.1	2370.8	2388.6	2385.7	2489.9	2510.8
62.5°	8768.3	3544.2	2070.0	1873.4	1849.6	2046.1	2224.8	2296.3	2311.2	2460.1	2486.9
65°	8151.8	3311.9	1924.0	1709.6	1709.6	1894.2	2084.8	2183.1	2224.8	2424.4	2454.2
67.5°	7338.7	3037.9	1775.1	1569.6	1563.6	1748.3	1935.9	2037.2	2102.7	2373.7	2391.6
70°	6090.7	2668.6	1590.4	1417.7	1417.7	1584.5	1754.2	1876.4	1971.7	2278.4	2278.4
72.5°	4172.7	2218.9	1367.1	1245.0	1247.9	1402.8	1575.5	1712.6	1825.7	2087.8	2093.8
75°	2638.8	1733.4	1122.8	1060.3	1072.2	1218.1	1396.8	1539.8	1766.2	2064.0	2072.9
77.5°	1402.8	1218.1	893.5	878.6	893.5	1027.5	1227.1	1423.7	1772.1	1790.0	1760.2
80°	908.4	863.7	705.9	676.1	682.0	828.0	1093.1	1352.2	1423.7	1441.5	1376.0
82.5°	494.4	548.0	500.4	470.6	470.6	646.3	932.2	1075.2	1021.6	848.8	810.1
85°	211.5	256.1	259.1	226.4	217.4	399.1	625.5	586.7	545.0	521.2	515.3
87.5°	59.6	83.4	83.4	62.5	47.7	110.2	125.1	35.7	0.0	3.0	6.0
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)