

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: P456255

Luminaire Tested: **GALN-SA7C-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456255
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-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45033 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

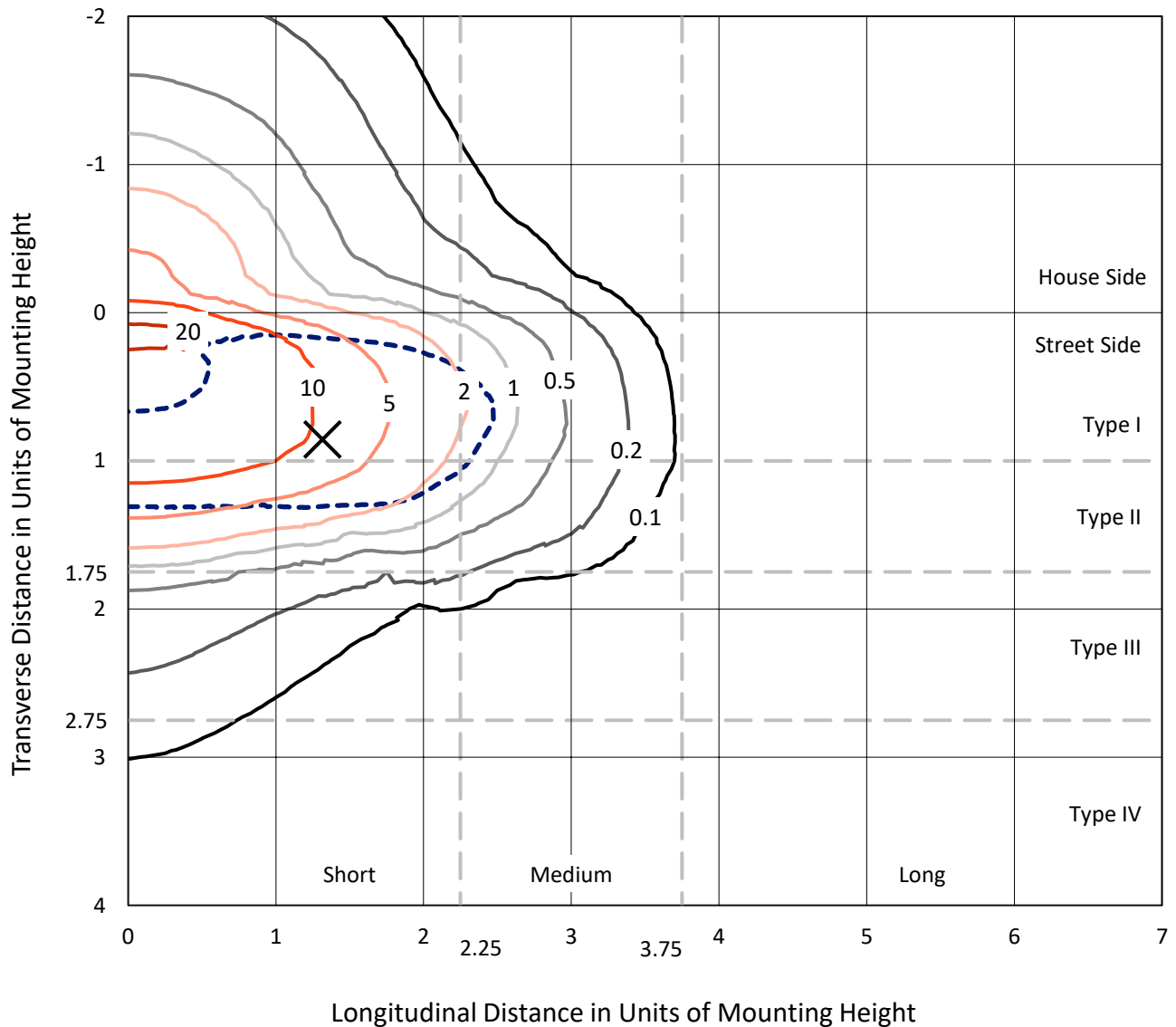
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

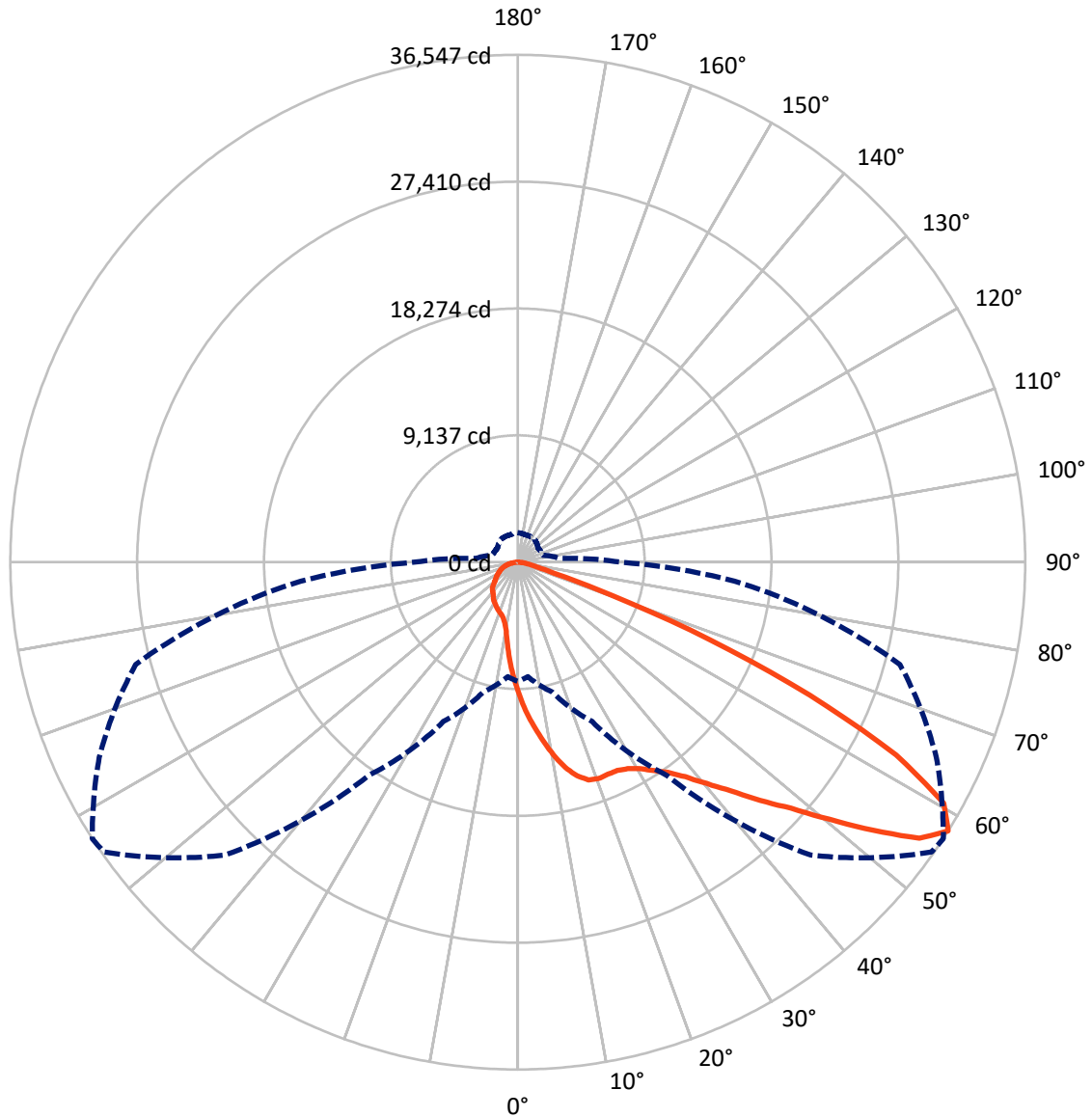
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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	6848.3	0.0	6848.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	38184.7	0.0	38184.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	45033.0	0.0	45033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	909.3	2.0
10°-20°	2679.7	6.0
20°-30°	4449.7	9.9
30°-40°	6702.6	14.9
40°-50°	10063.3	22.3
50°-60°	11279.7	25.0
60°-70°	6601.4	14.7
70°-80°	1952.7	4.3
80°-90°	394.7	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°	45033.0	100.0
0°-180°	45033.0	100.0

Coefficient of Utilization



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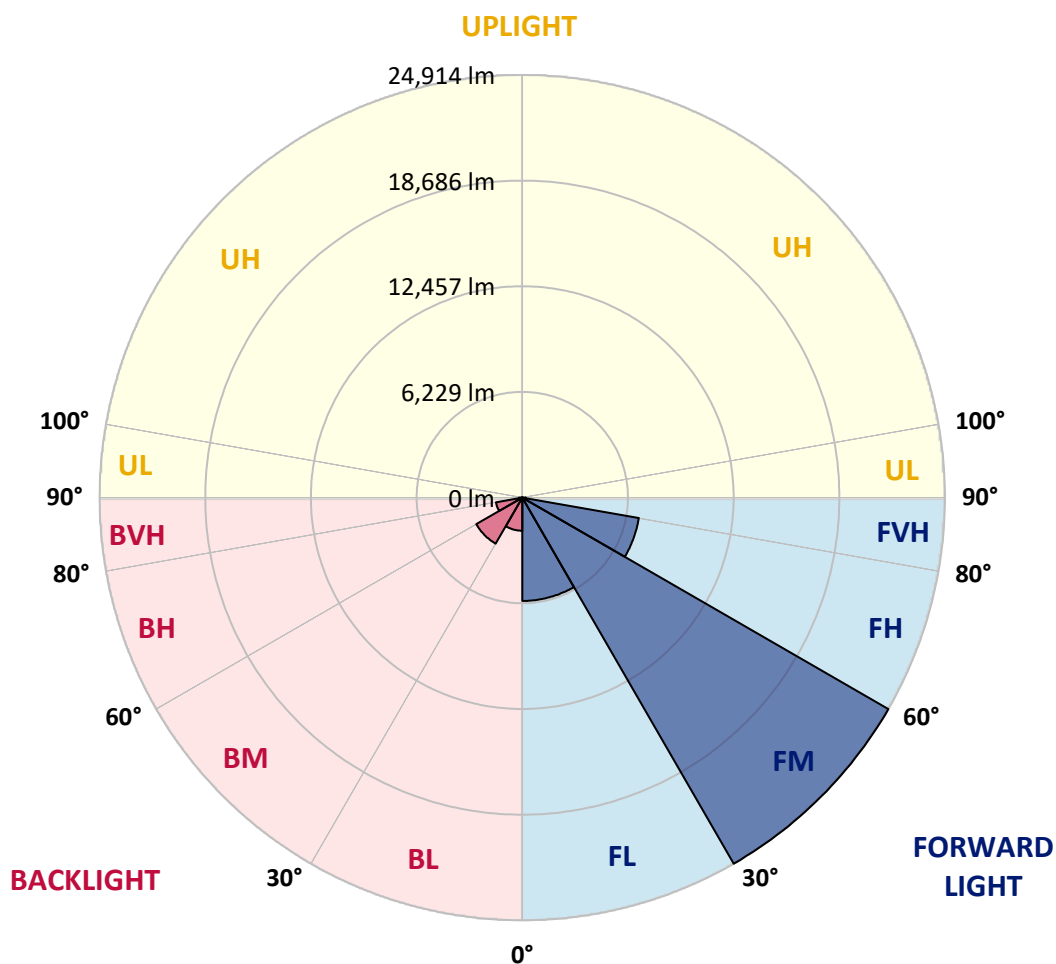
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6087.4	13.5			
FM	(30°-60°)	24914.2	55.3			
FH	(60°-80°)	6978.3	15.5			G3/7500
FVH	(80°-90°)	204.8	0.5			G2/225
BL	(0°-30°)	1951.3	4.3	B3/2500		
BM	(30°-60°)	3131.3	7.0	B3/5000		
BH	(60°-80°)	1575.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	189.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9
2.5°	11755.9	11627.7	11526.6	11437.9	11322.0	11009.0	10695.9	10691.0	10442.0	10057.5	9663.1
5°	13671.2	13498.7	13520.9	13244.8	12968.7	12515.1	11852.0	11817.5	11287.5	10567.7	9835.6
7.5°	14918.6	14921.0	14852.0	14694.3	14396.0	13880.8	13128.9	12958.8	12221.8	11129.8	10032.8
10°	14854.5	14921.0	15036.9	15172.5	15263.7	15009.8	14324.5	14117.4	13158.5	11810.1	10252.2
12.5°	14001.6	14105.1	14270.3	14610.4	15160.1	15579.2	15345.0	15177.4	14243.1	12488.0	10493.8
15°	13469.1	13530.7	13621.9	13851.2	14442.8	15446.1	16052.5	15963.8	15266.1	13254.7	10764.9
17.5°	13306.4	13368.0	13397.6	13538.1	13959.7	14987.6	16331.1	16488.8	16173.3	13959.7	11038.6
20°	13469.1	13498.7	13498.7	13582.5	13912.8	14718.9	16318.7	16636.7	16917.7	14805.2	11294.9
22.5°	13895.6	13907.9	13890.6	13920.2	14166.7	14792.9	16202.9	16597.3	17519.2	15522.5	11494.6
25°	14588.3	14608.0	14494.6	14425.6	14605.5	15118.2	16267.0	16629.3	17990.0	16207.8	11627.7
27.5°	15374.6	15399.3	15261.2	15101.0	15184.8	15520.0	16518.4	16843.8	18342.5	16883.2	11711.5
30°	16338.4	16348.3	16116.6	15924.3	15870.1	16119.1	16947.3	17250.5	18781.3	17679.4	11837.2
32.5°	17324.5	17398.4	17100.2	16829.0	16737.8	16814.2	17580.8	17874.2	19303.9	18534.8	12039.4
35°	18665.5	18677.8	18320.4	17990.0	17689.3	17787.9	18391.8	18603.8	20026.2	19523.3	12325.3
37.5°	20339.2	20452.6	19959.6	19343.4	18973.6	18830.6	19372.9	19604.7	21039.3	20736.1	12756.7
40°	22197.9	22239.8	21818.3	21433.7	20758.3	20344.2	20718.9	20970.3	22289.1	22183.1	13257.1
42.5°	23366.3	23457.6	23489.6	23450.2	22942.4	22247.2	22390.2	22508.5	23768.2	23541.4	13769.9
45°	23760.8	23896.3	24354.8	25326.1	25380.3	24695.0	24362.2	24475.6	25380.3	24911.9	14260.4
47.5°	23107.5	23339.2	24184.7	26176.5	27667.9	27719.7	26716.4	26467.4	26849.5	26048.3	14615.4
50°	21418.9	21468.2	22762.4	25646.5	28740.2	30611.2	29573.4	29109.9	28244.7	26888.9	14859.4
52.5°	18806.0	18862.7	19947.3	23183.9	28079.6	32632.5	32916.0	32087.7	29662.1	27542.2	15019.6
55°	13959.7	14287.5	15480.6	18608.8	24948.9	32442.7	35573.3	35102.5	31375.3	28059.8	15271.1
57.5°	8583.4	8282.6	9697.6	12660.6	18764.1	29834.7	36394.2	36547.0	33261.1	28493.7	15692.6
60°	3949.0	4008.2	4592.4	6530.0	11437.9	23339.2	34279.2	35245.5	34303.8	28478.9	15798.6
62.5°	2721.4	2667.2	2519.3	2866.9	5216.1	14760.8	28954.6	30591.5	32213.5	27593.9	15377.1
65°	2433.0	2378.8	2092.8	1996.7	2396.0	6433.8	21049.2	23114.9	27123.1	25360.6	14327.0
67.5°	2272.8	2198.8	1903.0	1715.7	1710.8	2561.2	12411.6	14898.9	20117.4	21441.1	12414.1
70°	2105.2	2046.0	1752.7	1545.6	1456.9	1609.7	5455.2	7141.3	13062.4	15451.0	9670.4
72.5°	1937.5	1868.5	1604.8	1382.9	1267.0	1205.4	2090.4	2719.0	7380.4	9263.7	5928.5
75°	1693.5	1659.0	1434.7	1252.3	1126.5	973.7	1326.2	1513.5	3530.0	4254.7	2975.3
77.5°	1481.5	1444.5	1274.4	1094.5	1003.3	791.3	941.7	1027.9	1488.9	1725.5	1343.5
80°	1084.6	1121.6	1074.8	966.3	894.8	621.2	633.5	705.0	885.0	978.6	820.9
82.5°	687.8	756.8	828.3	744.4	677.9	490.5	438.8	465.9	603.9	640.9	364.8
85°	288.4	293.3	480.7	453.6	387.0	290.9	263.8	278.6	322.9	337.7	170.1
87.5°	110.9	108.5	170.1	157.8	120.8	83.8	83.8	93.7	128.2	118.3	54.2
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°	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9	9460.9
2.5°	9493.0	9317.9	8970.4	8539.0	8223.5	7868.5	7555.4	7331.1	7247.3	7207.8	7133.9
5°	9485.6	9140.5	8420.7	7666.4	7059.9	6438.7	5913.7	5573.5	5543.9	5317.1	5295.0
7.5°	9488.0	8960.5	7814.3	6705.0	5780.6	5144.6	4710.7	4597.3	4461.8	4427.3	4444.5
10°	9495.4	8731.3	7163.5	5753.5	4858.6	4442.0	4279.4	4235.0	4239.9	4254.7	4257.2
12.5°	9505.3	8509.4	6488.0	5031.2	4341.0	4168.4	4151.2	4190.6	4232.5	4264.6	4272.0
15°	9517.6	8255.5	5829.9	4449.4	4082.1	4067.4	4124.1	4190.6	4249.8	4296.6	4304.0
17.5°	9502.8	7959.7	5277.7	4092.0	3939.2	4010.7	4104.3	4188.1	4242.4	4286.7	4291.7
20°	9468.3	7629.4	4745.2	3840.6	3850.4	3966.3	4067.4	4146.2	4205.4	4227.6	4244.8
22.5°	9335.2	7235.0	4281.8	3645.8	3744.4	3904.7	4025.5	4072.3	4005.7	3958.9	3971.2
25°	9108.4	6722.2	3850.4	3488.1	3648.3	3818.4	3941.6	3828.2	3774.0	3754.3	3764.2
27.5°	8824.9	6160.2	3525.0	3322.9	3525.0	3722.2	3687.7	3668.0	3643.4	3611.3	3618.7
30°	8519.3	5610.5	3249.0	3194.7	3391.9	3505.3	3520.1	3552.2	3525.0	3475.7	3495.5
32.5°	8235.8	5092.8	3039.4	3086.3	3298.3	3281.0	3391.9	3428.9	3303.2	3138.0	3145.4
35°	7994.2	4612.1	2881.7	2980.3	3138.0	3145.4	3256.4	3128.2	2992.6	2913.7	2918.6
37.5°	7811.8	4237.4	2778.1	2889.1	2933.4	3027.1	2967.9	2901.4	2884.1	2829.9	2832.4
40°	7703.3	3909.6	2711.6	2817.6	2810.2	2874.3	2684.5	2751.0	2775.7	2758.4	2760.9
42.5°	7594.9	3677.9	2642.5	2719.0	2716.5	2590.8	2548.9	2605.6	2669.7	2677.1	2672.1
45°	7508.6	3497.9	2571.1	2568.6	2617.9	2420.7	2408.4	2442.9	2534.1	2578.5	2576.0
47.5°	7412.4	3347.6	2462.6	2393.6	2408.4	2314.7	2295.0	2309.8	2420.7	2492.2	2511.9
50°	7291.7	3197.2	2327.0	2233.3	2171.7	2216.1	2221.0	2223.5	2334.4	2415.8	2433.0
52.5°	7195.5	3083.8	2171.7	2102.7	2028.7	2127.4	2164.3	2169.3	2235.8	2302.4	2314.7
55°	7252.2	3019.7	2018.9	1969.6	1903.0	2036.1	2107.6	2117.5	2132.3	2181.6	2189.0
57.5°	7422.3	3034.5	1895.6	1831.5	1782.2	1927.7	2048.5	2055.9	2046.0	2105.2	2115.0
60°	7474.1	3027.1	1804.4	1678.7	1649.1	1811.8	1962.2	1977.0	1974.5	2060.8	2078.0
62.5°	7257.2	2933.4	1713.2	1550.5	1530.8	1693.5	1841.4	1900.6	1912.9	2036.1	2058.3
65°	6746.9	2741.2	1592.4	1414.9	1414.9	1567.8	1725.5	1806.9	1841.4	2006.6	2031.2
67.5°	6073.9	2514.4	1469.2	1299.1	1294.2	1447.0	1602.3	1686.1	1740.3	1964.7	1979.4
70°	5041.1	2208.7	1316.3	1173.4	1173.4	1311.4	1451.9	1553.0	1631.9	1885.8	1885.8
72.5°	3453.6	1836.5	1131.5	1030.4	1032.9	1161.0	1304.0	1417.4	1511.1	1728.0	1732.9
75°	2184.0	1434.7	929.3	877.6	887.4	1008.2	1156.1	1274.4	1461.8	1708.3	1715.7
77.5°	1161.0	1008.2	739.5	727.2	739.5	850.4	1015.6	1178.3	1466.7	1481.5	1456.9
80°	751.8	714.9	584.2	559.6	564.5	685.3	904.7	1119.1	1178.3	1193.1	1138.9
82.5°	409.2	453.6	414.1	389.5	389.5	534.9	771.6	889.9	845.5	702.5	670.5
85°	175.0	212.0	214.5	187.3	179.9	330.3	517.7	485.6	451.1	431.4	426.5
87.5°	49.3	69.0	69.0	51.8	39.4	91.2	103.5	29.6	0.0	2.5	4.9
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)