

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: P457850

Luminaire Tested: **GALN-SA9B-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457850
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-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43563 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

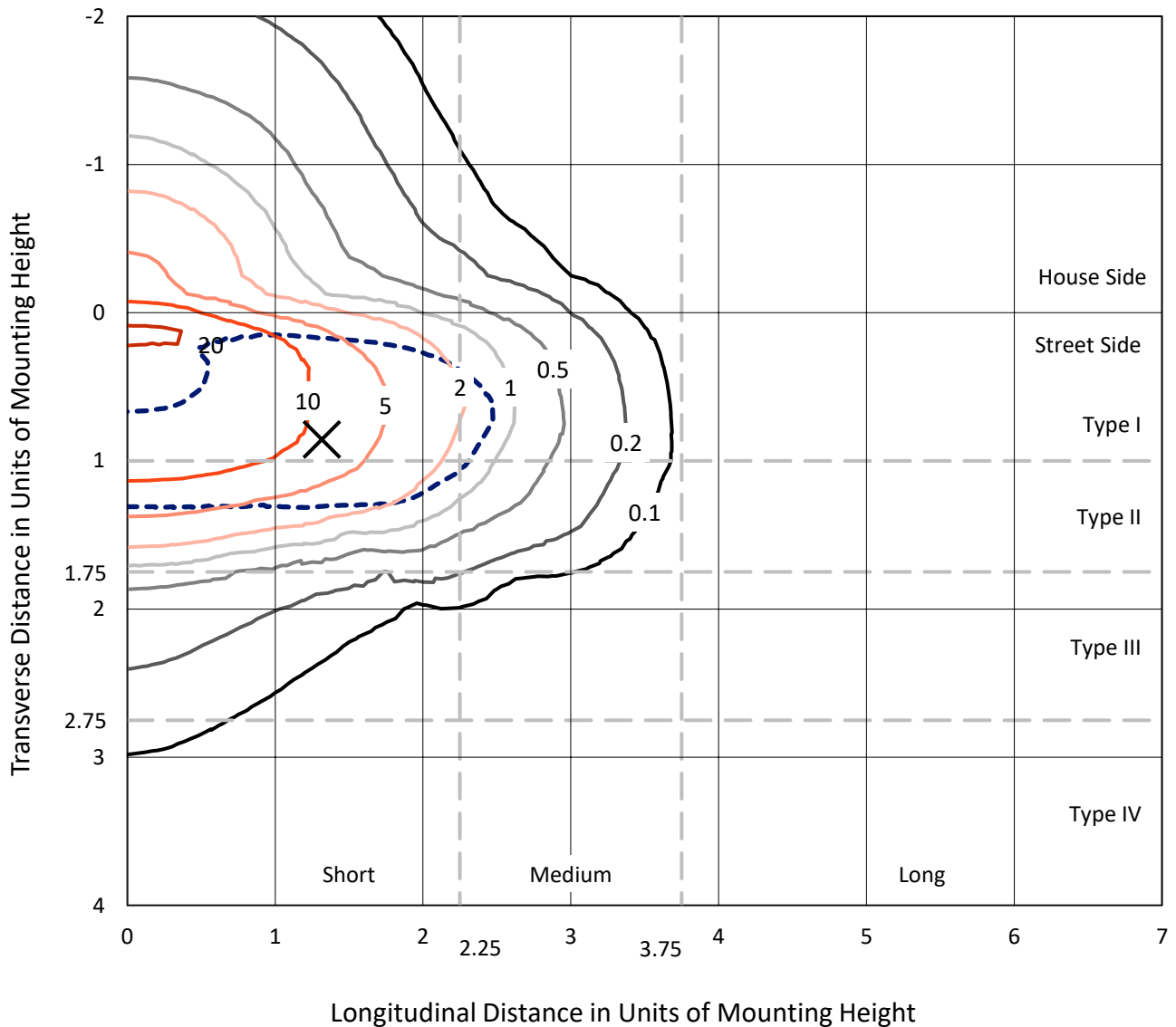
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

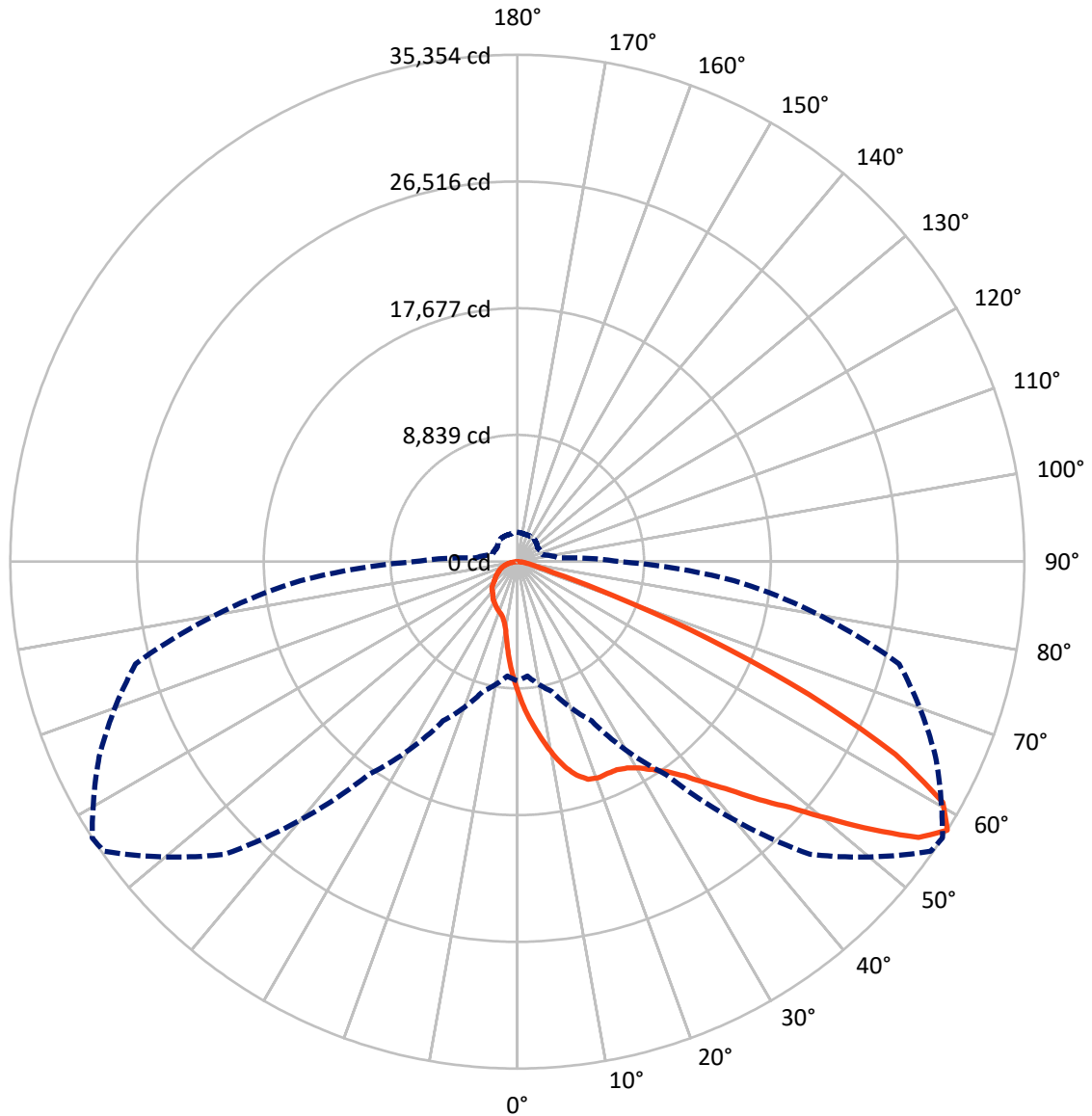
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 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	6624.7	0.0	6624.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	36938.3	0.0	36938.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	43563.0	0.0	43563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.6	2.0
10°-20°	2592.3	6.0
20°-30°	4304.5	9.9
30°-40°	6483.8	14.9
40°-50°	9734.8	22.3
50°-60°	10911.5	25.0
60°-70°	6385.9	14.7
70°-80°	1888.9	4.3
80°-90°	381.8	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°	43563.0	100.0
0°-180°	43563.0	100.0

Coefficient of Utilization



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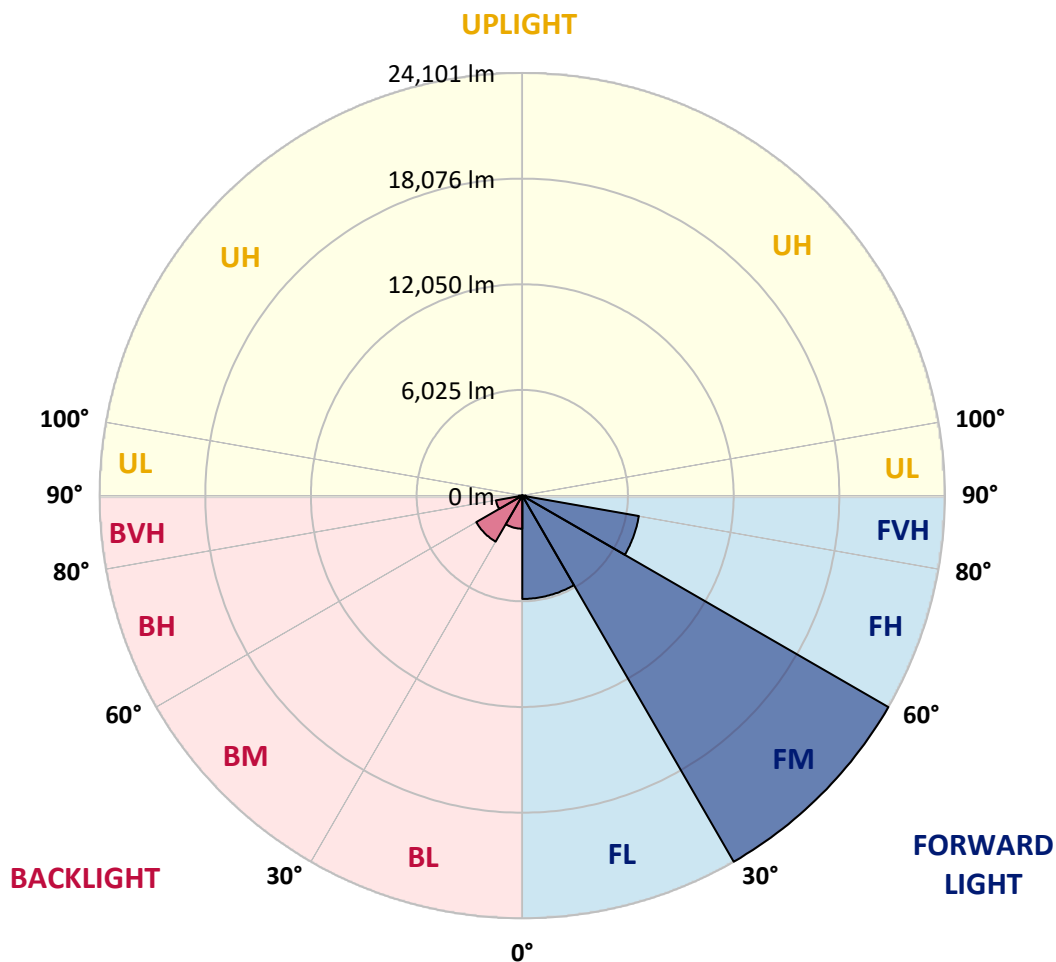
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5888.7	13.5			
FM	(30°-60°)	24101.0	55.3			
FH	(60°-80°)	6750.5	15.5			G3/7500
FVH	(80°-90°)	198.1	0.5			G2/225
BL	(0°-30°)	1887.6	4.3	B3/2500		
BM	(30°-60°)	3029.1	7.0	B3/5000		
BH	(60°-80°)	1524.3	3.5	B3/2500		G3/2500
BVH	(80°-90°)	183.7	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°	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1
2.5°	11372.1	11248.1	11150.4	11064.5	10952.5	10649.6	10346.8	10342.0	10101.2	9729.2	9347.6
5°	13225.0	13058.1	13079.5	12812.4	12545.4	12106.6	11465.1	11431.8	10919.1	10222.8	9514.5
7.5°	14431.6	14434.0	14367.2	14214.6	13926.1	13427.7	12700.4	12535.8	11822.8	10766.5	9705.3
10°	14369.6	14434.0	14546.0	14677.2	14765.4	14519.8	13856.9	13656.6	12729.0	11424.6	9917.5
12.5°	13544.5	13644.7	13804.4	14133.5	14665.3	15070.7	14844.1	14682.0	13778.2	12080.4	10151.2
15°	13029.4	13089.1	13177.3	13399.1	13971.4	14941.9	15528.5	15442.7	14767.8	12822.0	10413.5
17.5°	12872.1	12931.7	12960.3	13096.2	13504.0	14498.4	15798.0	15950.6	15645.3	13504.0	10678.2
20°	13029.4	13058.1	13058.1	13139.1	13458.7	14238.4	15786.0	16093.7	16365.5	14321.9	10926.2
22.5°	13442.0	13453.9	13437.2	13465.8	13704.3	14310.0	15674.0	16055.5	16947.3	15015.8	11119.4
25°	14112.1	14131.1	14021.4	13954.7	14128.7	14624.7	15736.0	16086.5	17402.8	15678.7	11248.1
27.5°	14872.7	14896.6	14763.0	14608.0	14689.1	15013.4	15979.2	16294.0	17743.8	16332.1	11329.2
30°	15805.1	15814.7	15590.5	15404.5	15352.0	15592.9	16394.1	16687.4	18168.3	17102.3	11450.8
32.5°	16759.0	16830.5	16542.0	16279.7	16191.4	16265.3	17007.0	17290.7	18673.8	17929.8	11646.4
35°	18056.2	18068.1	17722.3	17402.8	17111.9	17207.3	17791.5	17996.6	19372.5	18886.0	11923.0
37.5°	19675.3	19785.0	19308.1	18711.9	18354.3	18215.9	18740.6	18964.7	20352.5	20059.2	12340.3
40°	21473.3	21513.8	21106.1	20734.1	20080.7	19680.1	20042.5	20285.8	21561.5	21459.0	12824.4
42.5°	22603.6	22691.8	22722.8	22684.7	22193.5	21521.0	21659.3	21773.8	22992.3	22772.9	13320.4
45°	22985.1	23116.3	23559.8	24499.4	24551.8	23888.9	23567.0	23676.7	24551.8	24098.7	13794.9
47.5°	22353.2	22577.4	23395.3	25322.0	26764.7	26814.8	25844.3	25603.4	25973.0	25198.0	14138.3
50°	20719.8	20767.5	22019.4	24809.4	27802.0	29611.9	28608.0	28159.7	27322.7	26011.2	14374.4
52.5°	18192.1	18246.9	19296.2	22427.1	27163.0	31567.3	31841.5	31040.3	28693.9	26643.1	14529.4
55°	13504.0	13821.1	14975.3	18001.3	24134.5	31383.7	34412.1	33956.7	30351.2	27143.9	14772.6
57.5°	8303.2	8012.2	9381.0	12247.3	18151.6	28860.8	35206.2	35354.1	32175.4	27563.6	15180.4
60°	3820.1	3877.4	4442.5	6316.8	11064.5	22577.4	33160.2	34095.0	33184.1	27549.3	15282.9
62.5°	2632.6	2580.1	2437.1	2773.3	5045.8	14279.0	28009.5	29592.9	31161.9	26693.2	14875.1
65°	2353.6	2301.1	2024.5	1931.5	2317.8	6223.8	20362.1	22360.4	26237.7	24532.7	13859.3
67.5°	2198.6	2127.1	1840.9	1659.7	1654.9	2477.6	12006.5	14412.5	19460.7	20741.2	12008.8
70°	2036.4	1979.2	1695.4	1495.1	1409.3	1557.1	5277.1	6908.2	12636.0	14946.7	9354.8
72.5°	1874.3	1807.5	1552.4	1337.8	1225.7	1166.1	2022.1	2630.2	7139.5	8961.3	5735.0
75°	1638.2	1604.8	1387.8	1211.4	1089.8	941.9	1282.9	1464.1	3414.7	4115.8	2878.2
77.5°	1433.1	1397.4	1232.8	1058.8	970.5	765.5	910.9	994.4	1440.3	1669.2	1299.6
80°	1049.2	1085.0	1039.7	934.8	865.6	600.9	612.8	682.0	856.1	946.7	794.1
82.5°	665.3	732.1	801.2	720.1	655.8	474.5	424.5	450.7	584.2	620.0	352.9
85°	279.0	283.8	465.0	438.8	374.4	281.4	255.2	269.5	312.4	326.7	164.5
87.5°	107.3	104.9	164.5	152.6	116.8	81.1	81.1	90.6	124.0	114.5	52.5
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°	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1	9152.1
2.5°	9183.1	9013.8	8677.6	8260.2	7955.0	7611.6	7308.8	7091.8	7010.7	6972.6	6901.0
5°	9175.9	8842.1	8145.8	7416.1	6829.5	6228.6	5720.7	5391.6	5363.0	5143.6	5122.1
7.5°	9178.3	8668.0	7559.2	6486.1	5591.9	4976.7	4557.0	4447.3	4316.1	4282.7	4299.4
10°	9185.5	8446.2	6929.6	5565.7	4700.0	4297.0	4139.7	4096.7	4101.5	4115.8	4118.2
12.5°	9195.0	8231.6	6276.3	4867.0	4199.3	4032.4	4015.7	4053.8	4094.4	4125.4	4132.5
15°	9206.9	7986.0	5639.6	4304.2	3948.9	3934.6	3989.4	4053.8	4111.0	4156.4	4163.5
17.5°	9192.6	7699.9	5105.4	3958.4	3810.6	3879.7	3970.4	4051.4	4103.9	4146.8	4151.6
20°	9159.2	7380.3	4590.4	3715.2	3724.7	3836.8	3934.6	4010.9	4068.1	4089.6	4106.3
22.5°	9030.5	6998.8	4142.0	3526.8	3622.2	3777.2	3894.0	3939.4	3875.0	3829.7	3841.6
25°	8811.1	6502.8	3724.7	3374.2	3529.2	3693.7	3813.0	3703.3	3650.8	3631.7	3641.3
27.5°	8536.9	5959.1	3410.0	3214.4	3410.0	3600.7	3567.4	3548.3	3524.4	3493.4	3500.6
30°	8241.2	5427.3	3142.9	3090.4	3281.2	3390.9	3405.2	3436.2	3410.0	3362.3	3381.4
32.5°	7966.9	4926.6	2940.2	2985.5	3190.6	3173.9	3281.2	3317.0	3195.4	3035.6	3042.7
35°	7733.3	4461.6	2787.6	2883.0	3035.6	3042.7	3150.1	3026.1	2894.9	2818.6	2823.4
37.5°	7556.8	4099.1	2687.4	2794.7	2837.7	2928.3	2871.1	2806.7	2790.0	2737.5	2739.9
40°	7451.9	3782.0	2623.1	2725.6	2718.4	2780.4	2596.8	2661.2	2685.1	2668.4	2670.7
42.5°	7346.9	3557.8	2556.3	2630.2	2627.8	2506.2	2465.7	2520.5	2582.5	2589.7	2584.9
45°	7263.5	3383.7	2487.1	2484.8	2532.4	2341.7	2329.8	2363.1	2451.4	2494.3	2491.9
47.5°	7170.5	3238.3	2382.2	2315.4	2329.8	2239.1	2220.1	2234.4	2341.7	2410.8	2429.9
50°	7053.6	3092.8	2251.1	2160.4	2100.8	2143.8	2148.5	2150.9	2258.2	2336.9	2353.6
52.5°	6960.6	2983.1	2100.8	2034.1	1962.5	2057.9	2093.7	2098.4	2162.8	2227.2	2239.1
55°	7015.5	2921.1	1953.0	1905.3	1840.9	1969.7	2038.8	2048.4	2062.7	2110.4	2117.5
57.5°	7180.0	2935.4	1833.8	1771.8	1724.1	1864.8	1981.6	1988.8	1979.2	2036.4	2046.0
60°	7230.1	2928.3	1745.5	1623.9	1595.3	1752.7	1898.1	1912.4	1910.1	1993.5	2010.2
62.5°	7020.3	2837.7	1657.3	1499.9	1480.8	1638.2	1781.3	1838.5	1850.4	1969.7	1991.1
65°	6526.6	2651.7	1540.5	1368.8	1368.8	1516.6	1669.2	1747.9	1781.3	1941.1	1964.9
67.5°	5875.6	2432.3	1421.2	1256.7	1251.9	1399.8	1550.0	1631.1	1683.5	1900.5	1914.8
70°	4876.5	2136.6	1273.4	1135.1	1135.1	1268.6	1404.5	1502.3	1578.6	1824.2	1824.2
72.5°	3340.8	1776.5	1094.5	996.8	999.1	1123.1	1261.5	1371.1	1461.8	1671.6	1676.4
75°	2112.8	1387.8	899.0	848.9	858.5	975.3	1118.4	1232.8	1414.1	1652.5	1659.7
77.5°	1123.1	975.3	715.4	703.5	715.4	822.7	982.5	1139.8	1418.8	1433.1	1409.3
80°	727.3	691.5	565.1	541.3	546.1	662.9	875.1	1082.6	1139.8	1154.1	1101.7
82.5°	395.8	438.8	400.6	376.8	376.8	517.5	746.4	860.8	817.9	679.6	648.6
85°	169.3	205.1	207.5	181.2	174.1	319.5	500.8	469.8	436.4	417.3	412.5
87.5°	47.7	66.8	66.8	50.1	38.2	88.2	100.2	28.6	0.0	2.4	4.8
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)