

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: P456472

Luminaire Tested: **GALN-SA7D-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45319 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

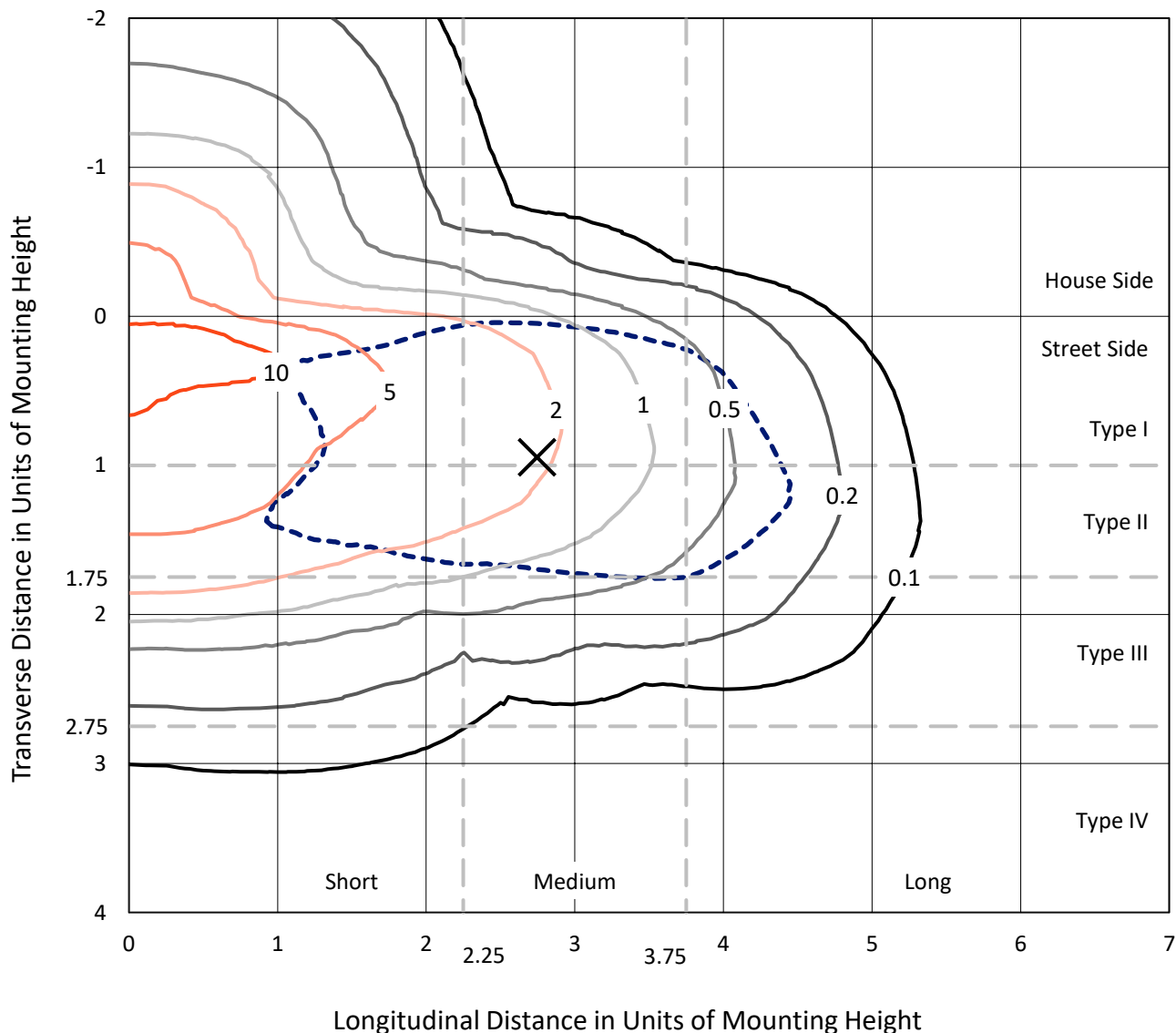
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

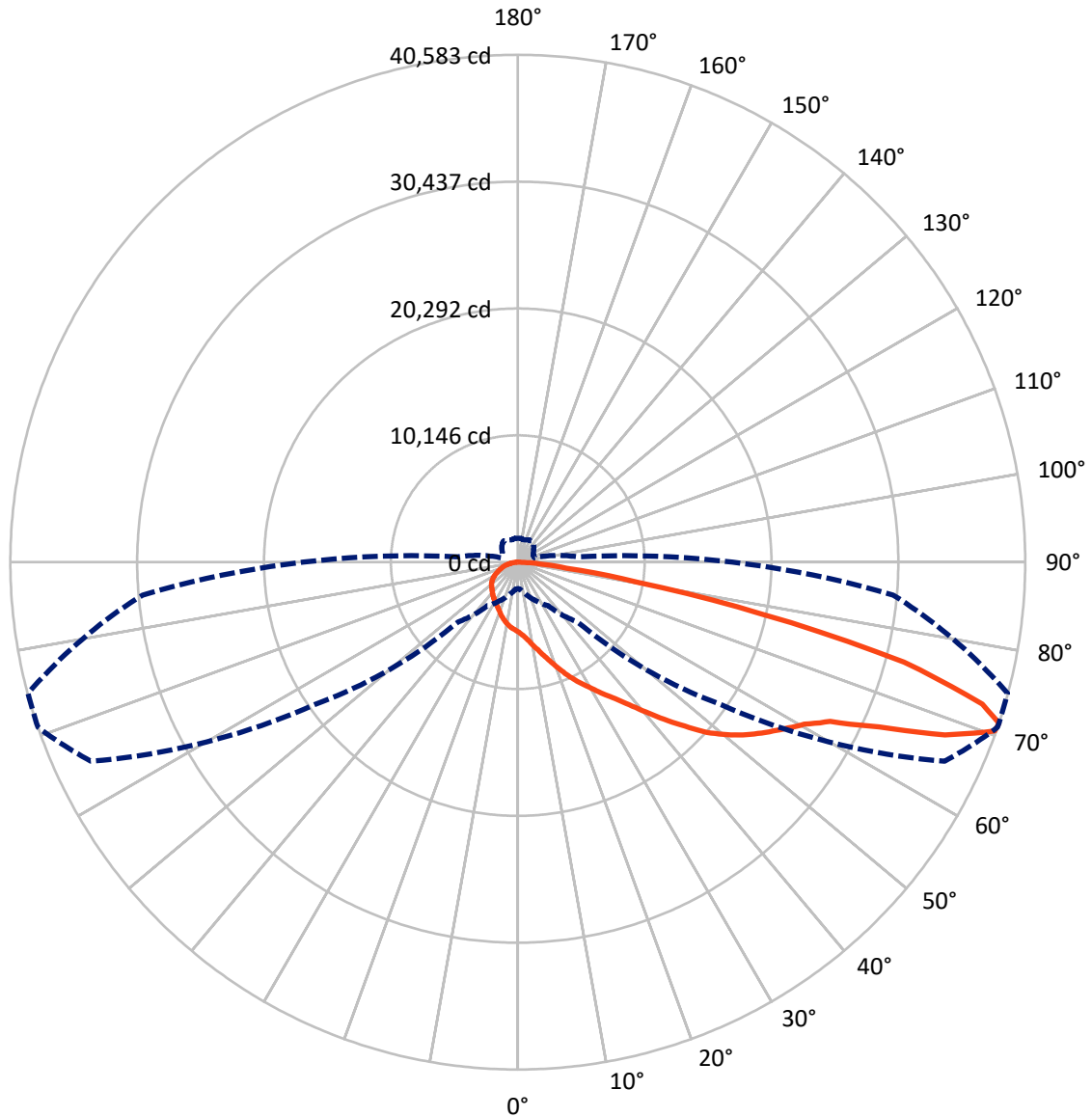
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8150.5	0.0	8150.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	37168.5	0.0	37168.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	45319.0	0.0	45319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.5	1.2
10°-20°	1814.4	4.0
20°-30°	3170.8	7.0
30°-40°	4716.2	10.4
40°-50°	6948.7	15.3
50°-60°	9728.3	21.5
60°-70°	10880.8	24.0
70°-80°	6646.4	14.7
80°-90°	855.0	1.9
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°	45319.0	100.0
0°-180°	45319.0	100.0

Coefficient of Utilization



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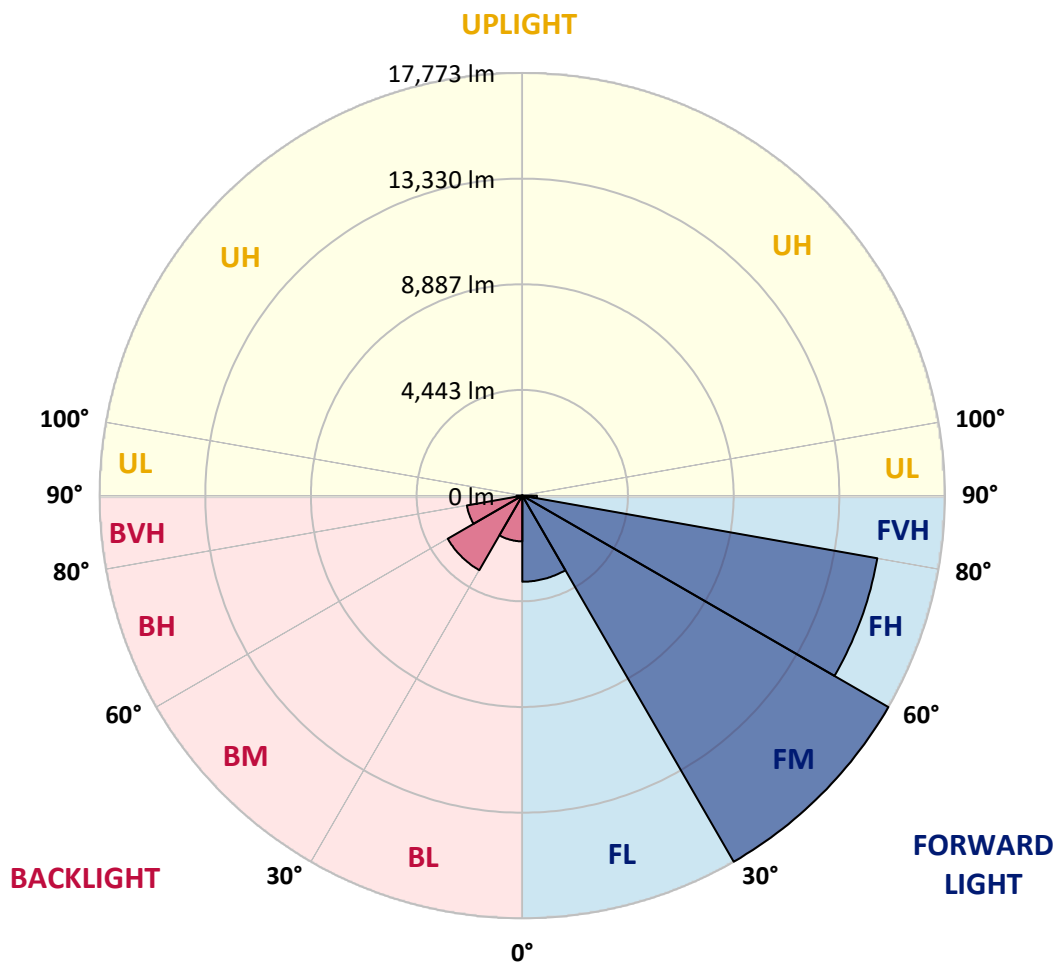
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3621.0	8.0			
FM	(30°-60°)	17773.2	39.2			
FH	(60°-80°)	15159.1	33.4			G5
FVH	(80°-90°)	615.2	1.4			G4/750
BL	(0°-30°)	1922.7	4.2	B3/2500		
BM	(30°-60°)	3620.0	8.0	B3/5000		
BH	(60°-80°)	2368.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	239.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0
2.5°	6174.8	6144.9	6147.4	6105.0	6050.2	5990.4	5905.7	5831.0	5771.2	5736.4	5634.2
5°	6842.3	6812.4	6775.0	6682.9	6643.0	6496.1	6309.3	6139.9	6010.4	5938.1	5733.9
7.5°	7382.8	7375.3	7365.4	7313.1	7210.9	7006.7	6847.3	6553.4	6361.6	6224.6	5875.9
10°	7716.6	7729.0	7736.5	7746.5	7704.1	7597.0	7377.8	7006.7	6762.6	6588.2	6060.2
12.5°	7886.0	7898.4	7940.8	8032.9	8090.2	8077.7	7898.4	7534.7	7198.5	6969.3	6257.0
15°	7990.6	8010.5	8085.2	8207.3	8399.1	8521.1	8433.9	8097.7	7729.0	7457.5	6491.1
17.5°	8105.1	8127.6	8209.8	8384.1	8635.7	8899.7	8994.4	8705.4	8304.4	7980.6	6752.6
20°	8169.9	8199.8	8316.9	8546.0	8839.9	9223.5	9537.4	9385.4	8947.0	8588.4	7054.0
22.5°	8274.5	8299.4	8399.1	8643.2	8994.4	9475.1	10080.4	10048.0	9661.9	9198.6	7385.3
25°	8558.5	8598.3	8648.1	8795.1	9133.9	9731.7	10531.2	10755.4	10354.4	9836.3	7689.2
27.5°	9094.0	9126.4	9123.9	9143.8	9335.6	9953.3	10922.3	11455.3	11041.8	10481.4	7983.1
30°	9704.3	9716.7	9726.7	9681.8	9724.2	10180.0	11280.9	12147.8	11734.3	11144.0	8239.7
32.5°	10446.5	10471.4	10386.7	10272.2	10237.3	10516.3	11577.4	12840.2	12553.8	11816.5	8493.7
35°	11323.3	11388.1	11216.2	11014.4	10872.5	10999.5	11975.9	13547.6	13393.2	12675.8	8830.0
37.5°	12324.6	12404.3	12244.9	11848.9	11647.1	11682.0	12496.5	14421.9	14454.3	13654.7	9330.6
40°	13144.1	13248.7	13253.7	12693.2	12386.9	12426.7	13156.5	15363.4	15734.5	14865.2	9921.0
42.5°	13684.6	13786.7	13893.8	13565.0	13243.7	13470.4	13926.2	16384.7	17174.2	16334.8	10745.4
45°	14277.4	14369.6	14429.4	14279.9	14100.6	14688.4	14855.3	17470.7	18708.6	17976.3	11647.1
47.5°	14964.9	15067.0	15124.3	14982.3	14915.1	15757.0	15856.6	18484.4	20347.6	19570.4	12643.4
50°	15881.5	15958.7	15928.8	15839.2	15824.2	16576.4	16818.1	19433.4	21700.1	21286.6	13677.1
52.5°	17022.3	17114.5	17146.8	17019.8	16962.5	17161.8	17592.7	20297.7	22930.5	22761.2	14780.6
55°	17712.3	17859.2	18352.4	18551.7	18688.7	17919.0	18427.1	21251.7	24034.0	24315.4	15966.2
57.5°	16828.0	17017.3	18120.8	19117.1	20404.8	19812.0	19610.3	22248.1	25137.4	25822.4	17386.0
60°	14671.0	14713.3	16135.6	17971.3	20561.8	22245.6	22078.7	23832.2	26333.0	27341.8	19256.6
62.5°	10177.5	10267.2	11948.5	14877.7	18623.9	23122.3	26278.2	26567.1	28046.7	29615.9	21999.0
65°	5248.2	5131.1	6663.0	9350.6	14040.8	21040.0	29680.7	31596.1	31763.0	33172.8	25859.8
67.5°	3230.6	3282.9	4000.3	5459.9	8301.9	15291.2	29324.5	37741.0	36861.7	37539.2	29444.0
70°	2426.1	2490.8	2984.0	3736.2	5061.4	8742.8	23583.1	39230.5	40458.5	40284.1	30535.0
71°	2109.7	2177.0	2690.1	3400.0	4251.8	6747.6	19869.3	37671.2	40583.0	40553.1	30124.0
72.5°	1798.4	1840.7	2241.7	2879.4	3584.3	4730.1	14927.5	33785.6	38851.9	39845.7	28656.9
75°	1412.3	1444.7	1624.0	2196.9	2822.1	2904.3	8010.5	25329.2	31910.0	33803.0	23857.1
77.5°	1150.8	1173.2	1265.3	1631.5	2177.0	2057.4	4202.0	16486.8	19991.4	21896.8	14053.2
80°	914.1	939.0	993.8	1105.9	1631.5	1467.1	2005.1	8354.2	9656.9	9637.0	5609.3
82.5°	709.9	717.4	782.1	812.0	1115.9	1041.2	1086.0	3537.0	3918.1	4047.6	2025.0
85°	448.3	470.8	692.4	622.7	667.5	610.3	535.5	1404.8	1731.1	1706.2	809.5
87.5°	137.0	144.5	234.1	264.0	296.4	266.5	196.8	413.5	505.6	548.0	201.8
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°	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0	5562.0
2.5°	5594.4	5567.0	5469.9	5390.1	5315.4	5233.2	5163.5	5143.6	5126.1	5118.6	5116.2
5°	5646.7	5564.5	5372.7	5215.8	5091.2	4976.7	4904.4	4872.1	4839.7	4839.7	4849.6
7.5°	5721.4	5572.0	5275.6	5041.4	4884.5	4777.4	4725.1	4720.1	4727.6	4735.1	4737.6
10°	5803.6	5567.0	5133.6	4842.2	4702.7	4652.9	4655.4	4697.7	4737.6	4767.4	4772.4
12.5°	5883.3	5537.1	4966.7	4655.4	4565.7	4575.6	4645.4	4740.0	4817.3	4859.6	4862.1
15°	5973.0	5489.8	4764.9	4478.5	4448.6	4525.8	4655.4	4799.8	4916.9	4986.6	4994.1
17.5°	6047.7	5410.1	4553.2	4306.6	4344.0	4486.0	4665.3	4852.1	4994.1	5081.3	5096.2
20°	6132.4	5307.9	4334.0	4142.2	4249.3	4441.1	4645.4	4847.1	4994.1	5078.8	5098.7
22.5°	6199.7	5163.5	4124.8	4007.7	4164.7	4386.3	4578.1	4740.0	4859.6	4904.4	4934.3
25°	6227.1	4981.7	3928.0	3898.1	4097.4	4296.7	4426.2	4518.4	4555.7	4550.7	4563.2
27.5°	6212.1	4772.4	3758.7	3811.0	4012.7	4157.2	4221.9	4214.5	4147.2	4085.0	4114.8
30°	6149.8	4523.3	3616.7	3721.3	3903.1	3982.8	3972.9	3875.7	3748.7	3631.6	3639.1
32.5°	6037.8	4254.3	3484.7	3619.2	3748.7	3783.6	3716.3	3589.3	3407.4	3255.5	3233.1
35°	5943.1	3997.8	3367.6	3502.1	3594.3	3576.8	3512.1	3347.7	3183.3	3048.8	3026.4
37.5°	5928.2	3778.6	3255.5	3370.1	3422.4	3397.5	3317.8	3178.3	3118.5	3016.4	3003.9
40°	6007.9	3624.2	3140.9	3230.6	3255.5	3235.6	3148.4	3068.7	3123.5	3098.6	3098.6
42.5°	6224.6	3542.0	3038.8	3091.1	3111.0	3126.0	3063.7	2996.5	3063.7	2949.1	2911.8
45°	6568.3	3544.4	2946.6	2954.1	3013.9	3066.2	3023.9	2924.2	2889.4	2660.2	2615.4
47.5°	7073.9	3629.1	2871.9	2824.6	2931.7	3018.9	2959.1	2814.6	2660.2	2508.3	2480.9
50°	7664.3	3781.1	2804.7	2690.1	2822.1	2959.1	2914.3	2744.9	2585.5	2493.3	2475.9
52.5°	8319.4	3972.9	2722.5	2540.6	2687.6	2931.7	2924.2	2734.9	2515.7	2453.5	2438.5
55°	9128.9	4162.2	2620.3	2366.3	2568.0	2909.3	2896.8	2652.7	2500.8	2456.0	2451.0
57.5°	10070.4	4436.2	2473.4	2189.4	2431.0	2817.1	2789.7	2602.9	2451.0	2418.6	2416.1
60°	11587.3	4862.1	2264.2	2027.5	2291.6	2655.2	2690.1	2518.2	2371.3	2363.8	2361.3
62.5°	13582.5	5459.9	2047.5	1860.6	2129.7	2446.0	2545.6	2403.6	2286.6	2323.9	2328.9
65°	16337.3	5963.0	1823.3	1718.7	1950.3	2244.2	2408.6	2296.5	2191.9	2264.2	2264.2
67.5°	18133.2	5973.0	1619.0	1571.7	1768.5	2074.9	2264.2	2169.5	2069.9	2191.9	2196.9
70°	17759.6	5233.2	1449.7	1417.3	1591.6	1893.0	2104.7	2030.0	1915.4	2025.0	1985.2
71°	17156.8	4822.2	1382.4	1357.5	1521.9	1805.8	2030.0	1967.8	1853.2	1925.4	1903.0
72.5°	16195.3	4187.1	1272.8	1277.8	1417.3	1696.3	1925.4	1860.6	1746.1	1785.9	1778.4
75°	13689.6	3656.5	1088.5	1110.9	1218.0	1509.4	1716.2	1666.4	1549.3	1549.3	1541.8
77.5°	8558.5	2555.6	904.2	916.6	1033.7	1292.7	1474.6	1432.2	1320.1	1282.8	1272.8
80°	3193.2	1320.1	707.4	722.3	794.6	1018.7	1220.5	1180.7	1066.1	1023.7	983.9
82.5°	1208.1	662.6	520.6	508.1	585.3	777.1	956.5	909.2	819.5	717.4	687.5
85°	455.8	328.8	318.8	308.9	343.7	460.8	592.8	582.9	488.2	416.0	408.5
87.5°	119.6	107.1	124.5	92.2	97.1	87.2	89.7	37.4	17.4	7.5	5.0
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)