

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: P383709

Luminaire Tested: **GLEON-SA9D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67319.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

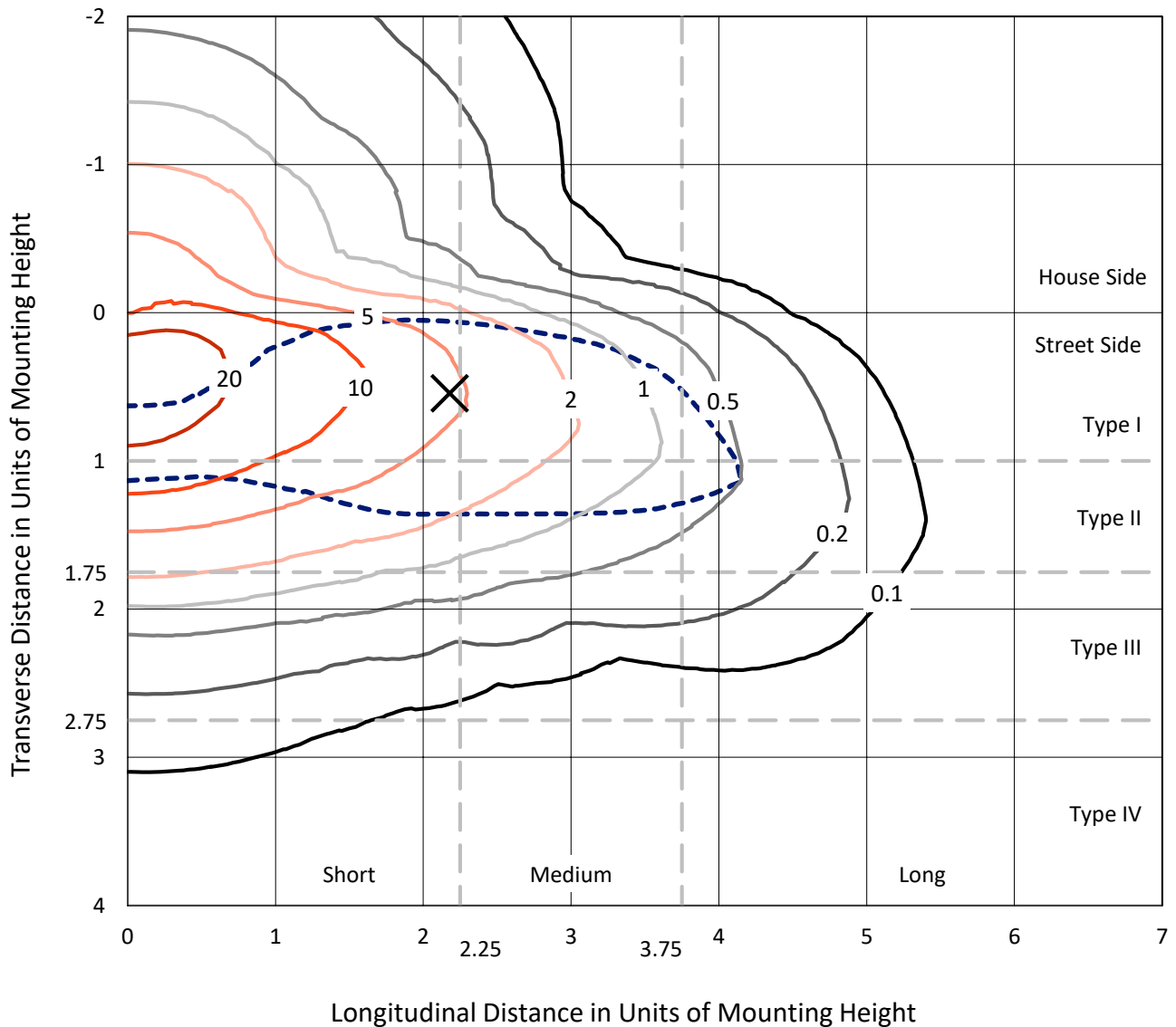
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

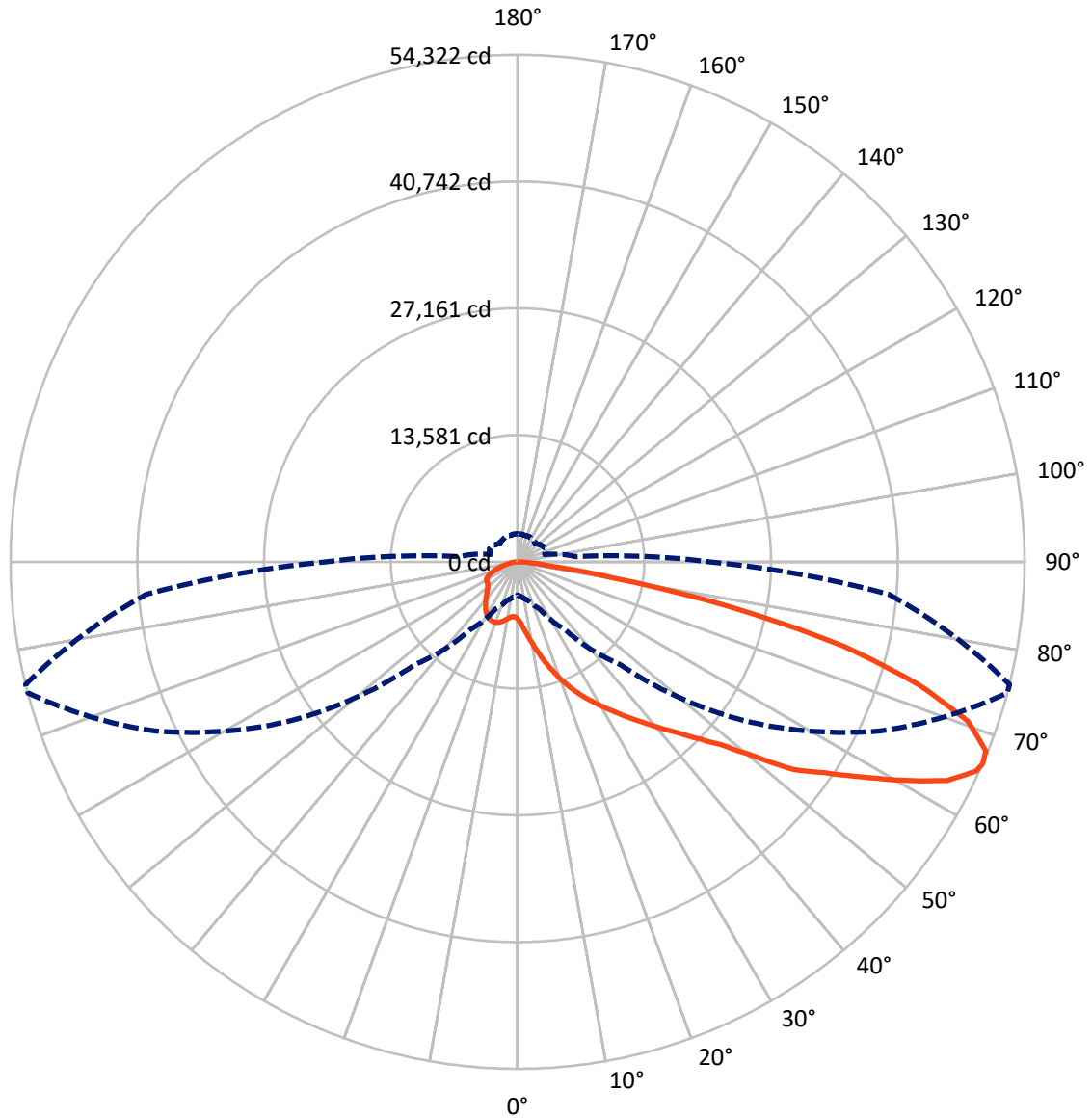
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11327.5	0.0	11327.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	55991.7	0.0	55991.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	67319.2	0.0	67319.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.4	1.1
10°-20°	2935.8	4.4
20°-30°	5704.9	8.5
30°-40°	9311.7	13.8
40°-50°	12722.0	18.9
50°-60°	14818.5	22.0
60°-70°	13285.1	19.7
70°-80°	6713.7	10.0
80°-90°	1084.2	1.6
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°	67319.2	100.0
0°-180°	67319.2	100.0

Coefficient of Utilization

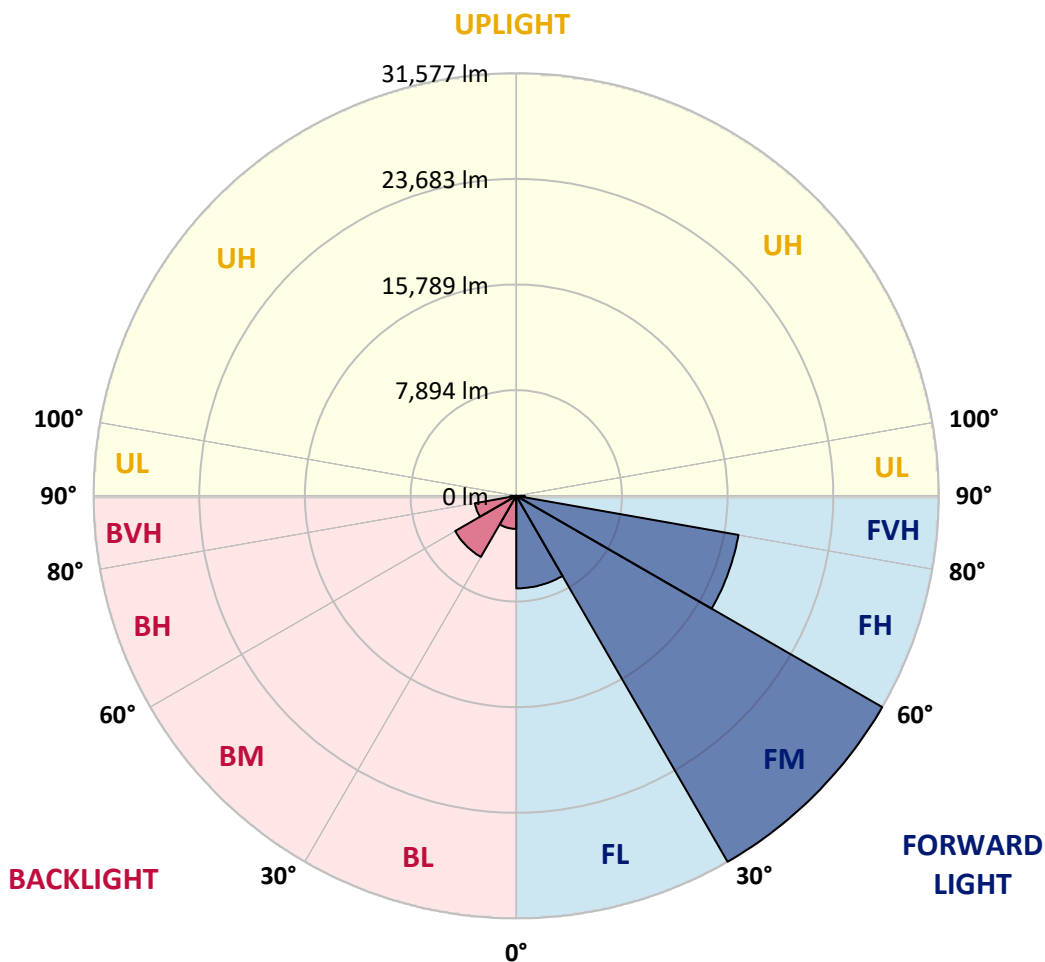


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6913.5	10.3			
FM (30°-60°)	31577.4	46.9			
FH (60°-80°)	16860.6	25.0			G5
FVH (80°-90°)	640.3	1.0			G4/750
BL (0°-30°)	2470.6	3.7	B3/2500		
BM (30°-60°)	5274.8	7.8	B4/8500		
BH (60°-80°)	3138.2	4.7	B4/5000		G4/5000
BVH (80°-90°)	443.9	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7
2.5°	8161.2	8037.8	8026.4	7845.9	7804.7	7459.6	7205.9	6940.8	6639.1	6579.7	6342.1
5°	10483.2	10471.8	10314.1	10019.3	9788.4	9198.8	8616.0	7998.9	7322.4	7212.8	6678.0
7.5°	12572.1	12553.8	12432.6	12115.0	11781.3	11056.8	10224.9	9278.8	8181.8	8019.5	7132.8
10°	14158.1	14151.3	14110.2	13877.1	13593.6	12898.9	11980.2	10688.9	9180.5	8958.8	7701.8
12.5°	15383.1	15396.8	15424.3	15341.9	15207.1	14615.2	13673.6	12183.5	10245.5	10026.2	8334.9
15°	16212.7	16253.8	16395.5	16512.1	16582.9	16219.5	15307.7	13712.5	11438.5	11175.7	9036.6
17.5°	16630.9	16676.7	16921.2	17273.1	17597.7	17561.2	16836.6	15170.5	12583.5	12329.8	9790.8
20°	16992.1	17026.4	17300.6	17723.3	18297.0	18550.7	18143.9	16573.8	13838.1	13536.5	10590.6
22.5°	18038.8	18082.2	18164.4	18404.4	18911.8	19378.1	19181.5	17901.6	14987.8	14706.6	11349.3
25°	20059.1	20111.6	19933.3	19730.0	19825.9	20150.5	20187.1	19112.9	16153.3	15835.7	12165.3
27.5°	22493.1	22568.4	22264.5	21741.1	21284.1	21158.3	21114.9	20104.8	17266.3	16898.4	12972.0
30°	24876.7	25007.0	24611.6	23932.9	23094.1	22504.5	22068.0	21076.1	18363.3	18011.4	13733.1
32.5°	27205.6	27153.0	26579.4	25916.6	24933.9	24195.6	23139.8	22118.2	19597.4	19192.9	14489.5
35°	28800.8	28819.1	28286.5	27500.4	26563.4	25996.6	24575.1	23242.7	20856.7	20484.2	15348.8
37.5°	30158.3	30073.8	29470.4	28736.8	27930.0	27687.8	26254.8	24481.4	22221.0	21814.2	16263.0
40°	30610.8	30512.6	30117.2	29589.2	28942.4	28921.9	28108.3	25884.6	23763.7	23361.5	17293.7
42.5°	30336.6	30210.9	30048.7	29904.6	29705.8	29797.2	29849.8	27530.1	25459.5	25009.3	18486.7
45°	29324.2	29134.4	29248.7	29561.8	29993.8	30510.2	31422.1	29351.6	27358.7	26981.6	19887.7
47.5°	27767.8	27596.4	27952.9	28622.5	29797.2	31104.5	32910.0	31362.7	29625.8	29251.0	21882.8
50°	25578.3	25628.6	26138.3	27356.4	29132.2	31378.7	34742.9	34025.2	32921.4	32571.7	24604.8
52.5°	21985.6	21994.9	23430.1	25429.8	27952.9	31237.0	35759.9	37428.2	37421.4	36998.6	27196.4
55°	18648.9	18852.4	19988.2	22646.2	26042.3	30670.3	36470.6	39082.9	40376.4	39880.5	29612.1
57.5°	15390.0	15508.8	16585.3	19254.6	23315.8	29159.6	37199.7	41068.9	43781.7	43468.5	32615.2
60°	11683.0	11865.9	12978.9	15444.8	19828.3	26478.8	37268.2	43141.7	47852.0	47536.6	35967.8
62.5°	7583.0	7898.4	8940.5	11251.0	15609.4	22623.3	35677.6	44497.0	51709.7	51597.8	38943.4
65°	4358.2	4596.0	5320.4	7103.1	10768.9	17782.8	31895.3	43975.9	54084.3	54020.4	40056.5
66°	3560.7	3709.2	4264.6	5551.3	8885.7	15616.3	29696.7	42876.6	54319.8	54322.0	39928.5
67.5°	2847.6	2913.9	3163.0	3974.4	6556.9	12377.8	25768.0	40451.8	54027.2	54107.2	39103.4
70°	2356.3	2390.5	2468.2	2664.8	3578.9	7464.1	18290.2	34150.9	51090.4	51152.1	35883.3
72.5°	2114.1	2134.5	2164.3	2191.7	2525.4	4170.9	11171.1	27319.9	44794.1	44874.1	30976.5
75°	1915.2	1926.6	1922.1	1924.3	2118.6	2657.9	5773.0	20397.4	36219.2	36059.3	23729.4
77.5°	1682.1	1693.5	1670.6	1675.2	1874.0	2043.2	2872.8	14279.2	24442.5	23313.5	13369.7
80°	1421.5	1430.7	1421.5	1437.6	1631.8	1542.6	1670.6	8033.2	10807.7	10222.6	4753.7
82.5°	1074.2	1113.0	1140.4	1204.4	1343.9	1097.0	1117.6	3128.7	3291.0	3133.3	1458.1
85°	470.8	573.6	859.4	921.0	1010.2	658.2	733.6	1275.3	1339.3	1298.1	530.2
87.5°	123.4	134.8	425.1	534.8	560.0	297.1	381.7	580.5	612.5	580.5	176.0
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°	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7	6147.7
2.5°	6216.3	6104.3	5903.2	5724.9	5590.1	5498.7	5407.3	5361.6	5334.1	5306.7	5311.3
5°	6415.2	6188.9	5843.8	5599.3	5462.1	5375.3	5329.6	5311.3	5299.9	5272.5	5272.5
7.5°	6714.5	6394.6	5919.2	5667.8	5560.4	5494.2	5466.7	5457.6	5443.9	5411.8	5416.4
10°	7091.6	6643.7	6077.0	5832.4	5734.1	5661.0	5622.1	5608.4	5583.2	5546.7	5551.3
12.5°	7535.0	6952.2	6284.9	6028.9	5910.1	5811.8	5747.8	5709.0	5665.6	5617.5	5619.8
15°	8019.5	7288.1	6508.8	6204.9	6042.7	5905.5	5802.7	5736.4	5667.8	5608.4	5606.1
17.5°	8510.9	7612.7	6680.2	6300.9	6081.5	5901.0	5761.5	5658.7	5574.1	5501.0	5494.2
20°	9041.1	7905.2	6776.3	6291.8	6008.4	5793.5	5608.4	5480.4	5386.7	5313.5	5302.2
22.5°	9580.4	8179.5	6792.3	6198.1	5846.1	5583.2	5389.0	5247.3	5151.4	5075.9	5048.5
25°	10074.1	8392.0	6726.0	6017.5	5619.8	5336.5	5146.7	5002.8	4925.1	4835.9	4808.6
27.5°	10524.3	8540.6	6593.4	5786.7	5366.2	5087.4	4909.1	4785.6	4701.1	4632.5	4609.7
30°	10928.8	8620.5	6376.4	5512.4	5105.6	4852.0	4701.1	4616.6	4543.4	4456.5	4440.6
32.5°	11312.8	8620.5	6097.4	5213.0	4847.4	4644.0	4554.8	4502.3	4420.0	4335.4	4312.6
35°	11696.8	8568.0	5768.4	4899.9	4609.7	4495.4	4490.8	4429.1	4303.5	4189.2	4159.5
37.5°	12101.3	8460.6	5398.1	4607.4	4415.4	4429.1	4468.0	4330.9	4152.6	3990.4	3946.9
40°	12558.4	8312.0	5014.2	4353.7	4253.2	4399.4	4406.3	4189.2	3841.8	3693.2	3654.4
42.5°	13095.4	8163.5	4657.6	4129.7	4125.2	4310.3	4289.7	3882.9	3675.0	3599.5	3578.9
45°	13801.6	8078.9	4319.4	3917.2	4024.7	4166.3	4090.9	3713.8	3627.0	3583.6	3565.2
47.5°	14914.6	8122.3	4008.6	3748.1	3924.1	4022.3	3720.7	3645.2	3583.6	3530.9	3512.7
50°	16308.7	8097.2	3757.2	3631.5	3809.8	3871.5	3553.9	3556.1	3524.1	3464.7	3437.2
52.5°	17357.7	7900.6	3594.9	3565.2	3709.2	3604.1	3448.7	3469.3	3453.2	3366.4	3336.7
55°	18370.1	7731.6	3512.7	3540.1	3636.1	3270.4	3325.3	3375.6	3359.5	3275.0	3261.3
57.5°	19629.4	7699.5	3462.4	3547.0	3574.3	3103.6	3206.5	3272.7	3261.3	3224.7	3217.8
60°	21172.0	7708.7	3416.7	3558.4	3505.8	2980.2	3094.4	3179.0	3185.9	3179.0	3174.4
62.5°	22019.9	7459.6	3302.4	3526.4	3384.7	2872.8	2977.9	3101.3	3103.6	3117.3	3115.0
65°	21300.0	6714.5	3089.9	3414.4	3181.3	2783.7	2877.4	3012.2	2977.9	3039.6	3039.6
66°	20600.7	6284.9	2984.8	3341.3	3094.4	2749.4	2845.3	2966.5	2923.0	3007.6	3007.6
67.5°	19172.4	5560.4	2795.0	3185.9	2971.1	2701.4	2808.8	2891.1	2831.6	2957.3	2948.2
70°	16562.4	4301.1	2413.4	2834.0	2767.6	2630.5	2758.5	2740.2	2653.3	2845.3	2808.8
72.5°	13963.9	3268.1	1938.0	2372.3	2459.1	2541.4	2687.6	2548.2	2438.5	2573.4	2493.4
75°	10835.1	2456.9	1531.2	1844.4	2077.4	2402.0	2603.1	2326.5	2168.8	2155.1	2111.7
77.5°	5857.5	1686.7	1213.5	1407.8	1650.1	2228.3	2545.9	2088.9	1851.2	1796.3	1762.0
80°	2319.7	1097.0	882.2	1067.3	1154.1	1976.8	2408.8	1812.3	1526.6	1471.8	1419.2
82.5°	957.6	649.1	569.1	715.3	751.9	1691.2	2162.0	1485.5	1179.2	1631.8	1732.3
85°	411.4	356.5	338.2	370.2	425.1	1186.1	1720.9	1133.6	1273.0	1135.8	902.8
87.5°	123.4	150.8	144.0	141.7	155.4	283.4	916.5	630.8	934.7	354.3	265.1
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)