

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: P534247

Luminaire Tested: **GALN-SA9D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-727-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38790 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

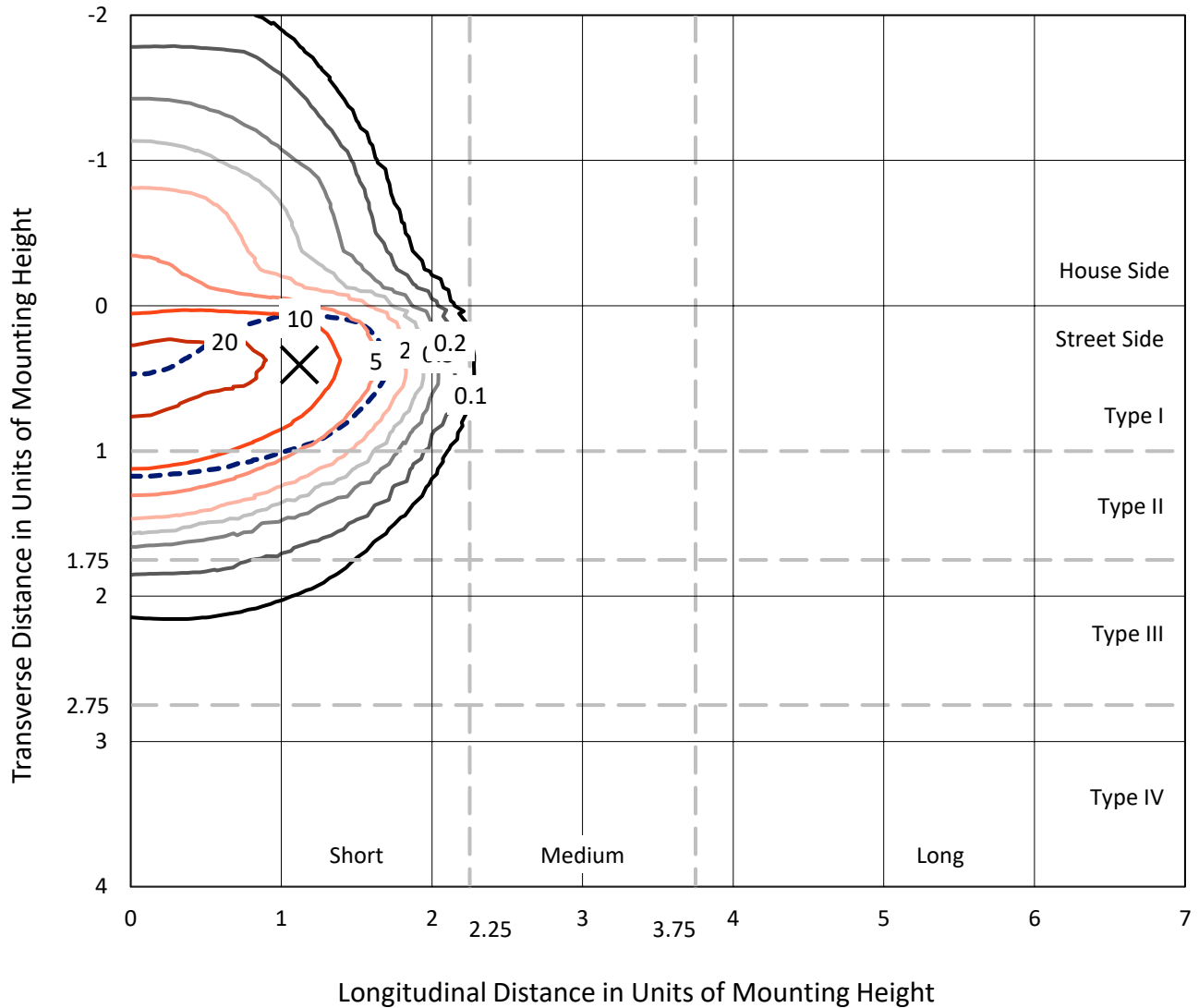
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P534247  
 CATALOG NUMBER: GALN-SA9D-727-U-T2R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

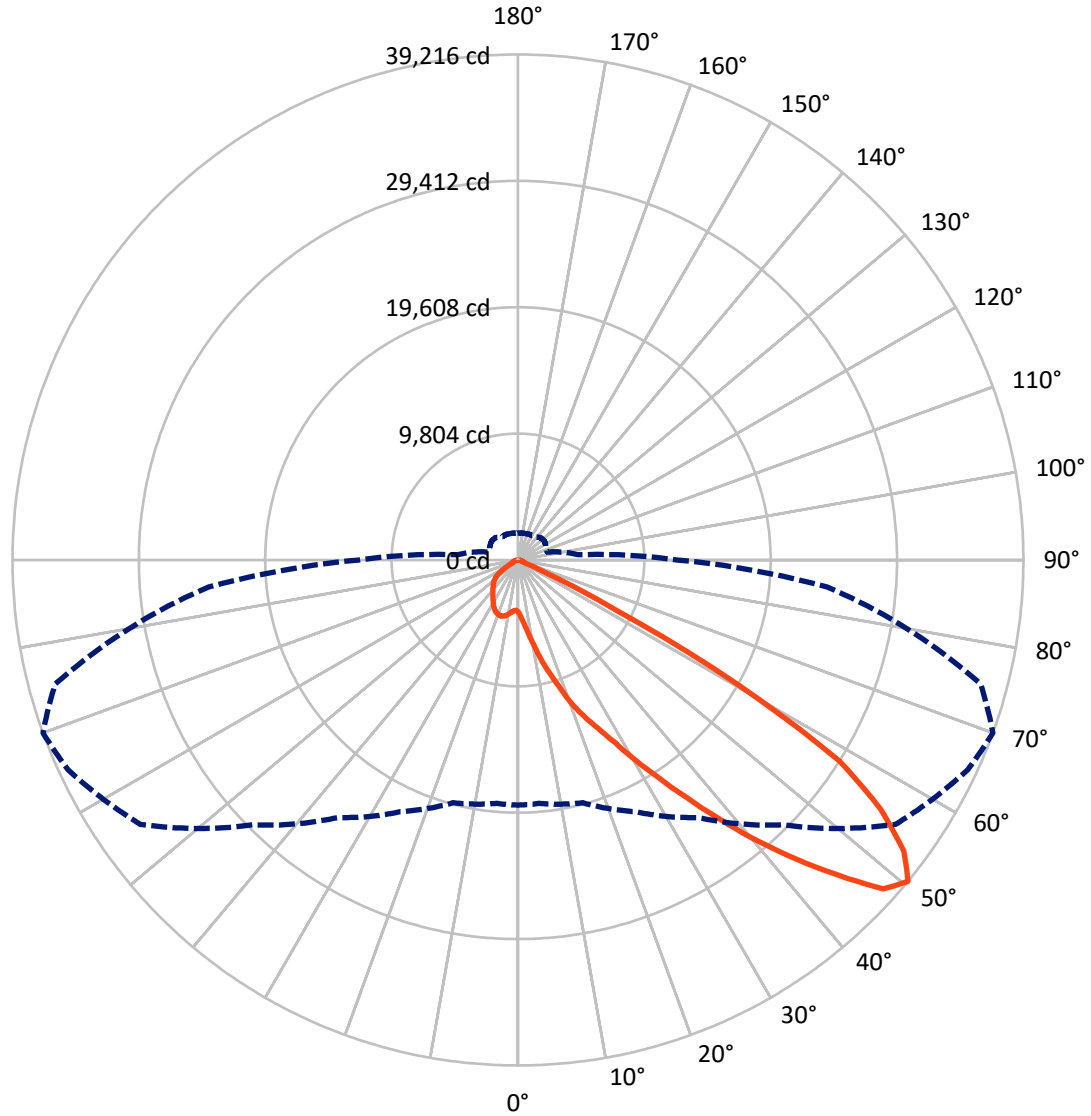
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc  
 Type I - Short - N/A

REPORT NUMBER: P534247  
CATALOG NUMBER: GALN-SA9D-727-U-T2R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA9D-727-U-T2R-GRSBK

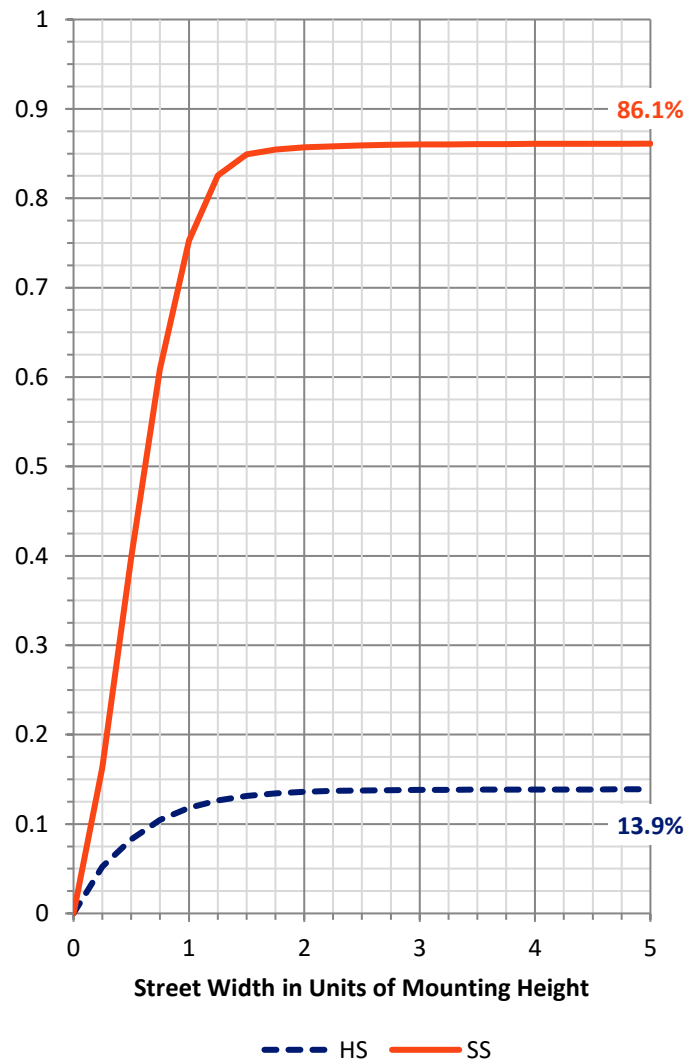
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5417.3	0.0	5417.3
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	33372.7	0.0	33372.7
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	38790.0	0.0	38790.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.5	1.3
10°-20°	2260.0	5.8
20°-30°	4741.2	12.2
30°-40°	8172.2	21.1
40°-50°	11943.5	30.8
50°-60°	9302.0	24.0
60°-70°	1576.0	4.1
70°-80°	216.5	0.6
80°-90°	56.1	0.1
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°	38790.0	100.0
0°-180°	38790.0	100.0



REPORT NUMBER: P534247

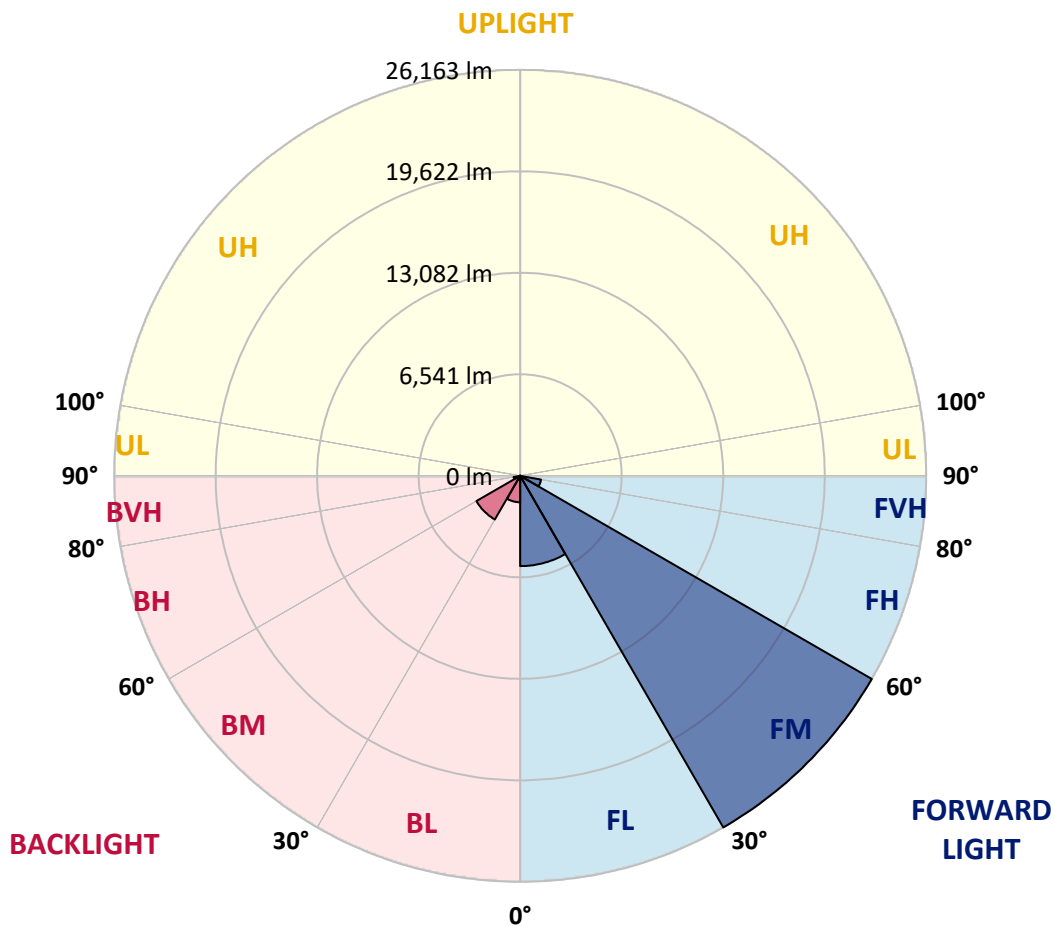
CATALOG NUMBER: GALN-SA9D-727-U-T2R-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5819.0	15.0			
FM (30°-60°)	26163.2	67.4			
FH (60°-80°)	1364.6	3.5			G1/1800
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1704.7	4.4	B3/2500		
BM (30°-60°)	3254.5	8.4	B3/5000		
BH (60°-80°)	427.9	1.1	B1/500		G1/500
BVH (80°-90°)	30.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9
2.5°	5261.5	5223.2	5140.3	4987.3	4923.5	4770.4	4681.1	4509.0	4400.5	4279.4	4145.4
5°	7410.8	7213.1	7091.9	6919.7	6415.9	6103.4	5586.8	5146.7	4942.6	4719.4	4413.3
7.5°	9630.2	9502.6	9336.8	8966.9	8622.5	7972.0	7085.5	6116.1	5701.6	5318.9	4713.0
10°	11466.9	11109.8	11090.6	10816.4	10440.1	9662.0	8597.0	7391.6	6651.8	6090.6	5140.3
12.5°	12748.8	12423.5	12570.2	12538.3	12187.6	11473.3	10242.4	8648.0	7876.3	7002.6	5580.4
15°	13915.9	13782.0	13737.3	13699.1	13558.8	13029.4	11926.1	10178.6	9062.6	8010.2	6077.8
17.5°	15057.5	14713.1	14878.9	14910.8	14898.0	14419.7	13386.6	11632.7	10318.9	9075.3	6600.8
20°	16071.5	16103.4	15880.2	15835.5	15797.3	15778.2	14770.5	13074.1	11862.3	10191.4	7283.2
22.5°	17372.5	17149.3	17347.0	17219.5	16970.8	16817.7	16046.0	14349.6	13201.6	11537.1	7978.4
25°	18909.5	19088.1	18622.6	18571.5	18297.3	17768.0	17072.8	15778.2	14489.9	12787.1	8730.9
27.5°	20803.7	20491.2	20370.0	20089.4	19591.9	19368.7	18552.4	17251.4	16046.0	14100.8	9458.0
30°	22430.0	22347.1	21741.2	21409.6	20975.9	20969.5	19827.9	19247.6	18074.1	16160.8	10459.2
32.5°	23756.5	23393.0	23169.8	22940.2	22589.4	22685.1	21722.1	21415.9	20236.1	18074.1	11639.1
35°	24643.0	24381.5	24247.6	23896.8	23794.8	24222.1	23820.3	23692.7	22723.3	20765.4	13023.0
37.5°	24923.6	25006.5	24981.0	24541.0	24757.8	25912.1	26428.7	26097.1	25586.9	23603.5	14521.8
40°	25172.3	25229.7	25102.2	25618.8	26237.4	27551.2	29419.8	28871.3	28680.0	26479.7	16607.2
42.5°	25312.6	25268.0	25268.0	26160.9	27098.4	29738.7	32308.9	31945.3	31798.7	29541.0	19018.0
45°	24706.8	24273.1	24738.7	25950.4	27838.2	30816.5	34617.5	35121.4	34910.9	33182.6	21836.9
47.5°	22442.7	22710.6	22972.1	24592.0	26938.9	30484.9	36033.4	37748.9	38138.0	36243.8	23686.4
50°	19018.0	18960.6	19502.7	21543.5	24394.3	29056.3	35759.1	38507.9	39215.8	37162.2	24075.4
52.5°	13833.0	14253.9	14840.6	16868.7	20248.8	25357.3	32219.6	36550.0	37493.8	36033.4	23820.3
55°	8054.9	7589.3	8909.5	10625.1	13813.9	19126.4	27238.7	32398.1	34145.6	33979.8	22532.0
57.5°	3227.1	3125.0	3577.8	4821.5	7206.7	11855.9	19808.8	26620.1	29419.8	31122.6	19802.4
60°	1415.8	1383.9	1626.3	1964.3	2946.4	5465.6	10835.5	16556.2	19477.2	21747.6	13628.9
62.5°	1020.4	1007.7	1128.8	1250.0	1556.1	2378.8	4553.6	6671.0	8316.4	10044.7	6103.4
65°	822.7	854.6	937.5	1001.3	1148.0	1320.2	1607.2	1855.9	2276.8	2359.7	1345.7
67.5°	669.6	695.2	771.7	841.8	867.4	714.3	739.8	650.5	650.5	580.4	465.6
70°	491.1	497.5	586.7	669.6	535.7	287.0	503.8	503.8	452.8	433.7	395.4
72.5°	363.5	369.9	440.1	414.5	210.5	178.6	369.9	408.2	369.9	350.8	318.9
75°	267.9	274.2	229.6	95.7	89.3	114.8	216.8	280.6	267.9	261.5	242.3
77.5°	51.0	38.3	31.9	44.6	63.8	95.7	140.3	172.2	178.6	191.3	178.6
80°	6.4	6.4	19.1	38.3	70.2	102.0	146.7	165.8	172.2	178.6	165.8
82.5°	0.0	6.4	19.1	38.3	70.2	95.7	127.6	146.7	159.4	165.8	159.4
85°	0.0	6.4	12.8	31.9	57.4	70.2	63.8	44.6	38.3	44.6	31.9
87.5°	0.0	0.0	6.4	6.4	12.8	12.8	12.8	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534247

CATALOG NUMBER: GALN-SA9D-727-U-T2R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9	4017.9
2.5°	4068.9	4043.4	3954.1	3858.4	3775.5	3813.8	3775.5	3743.6	3756.4	3743.6	3730.9
5°	4292.1	4177.3	3986.0	3903.1	3832.9	3826.6	3807.4	3801.0	3807.4	3807.4	3750.0
7.5°	4502.6	4317.6	4113.5	4024.3	3941.3	3947.7	3903.1	3903.1	3896.7	3864.8	3852.1
10°	4821.5	4572.7	4311.2	4151.8	4049.8	4030.6	3986.0	3941.3	3941.3	3941.3	3877.6
12.5°	5172.2	4859.7	4502.6	4317.6	4196.5	4100.8	4030.6	4017.9	3947.7	3935.0	3903.1
15°	5478.3	5082.9	4630.1	4375.0	4222.0	4094.4	3986.0	3915.8	3884.0	3864.8	3839.3
17.5°	5778.1	5274.3	4700.3	4375.0	4209.2	4062.5	3947.7	3884.0	3807.4	3820.2	3769.2
20°	6179.9	5478.3	4719.4	4292.1	4088.0	3947.7	3794.7	3762.8	3718.1	3679.9	3692.6
22.5°	6568.9	5625.0	4662.0	4190.1	3896.7	3730.9	3654.4	3616.1	3597.0	3565.1	3520.4
25°	6919.7	5784.5	4572.7	4005.1	3692.6	3571.4	3501.3	3494.9	3450.3	3450.3	3367.4
27.5°	7276.8	5841.9	4419.7	3788.3	3514.1	3443.9	3412.0	3399.3	3380.1	3335.5	3278.1
30°	7685.0	5861.0	4196.5	3565.1	3354.6	3278.1	3322.7	3354.6	3271.7	3188.8	3214.3
32.5°	8023.0	5816.4	3928.6	3354.6	3239.8	3201.5	3290.8	3322.7	3227.1	3137.8	3093.1
35°	8431.2	5707.9	3667.1	3188.8	3125.0	3201.5	3278.1	3278.1	3086.8	2978.3	2952.8
37.5°	9049.8	5586.8	3424.8	3048.5	3003.8	3163.3	3265.3	3195.2	2895.4	2761.5	2729.6
40°	9713.1	5510.2	3188.8	2908.2	2940.1	3099.5	3156.9	2940.1	2633.9	2551.0	2525.5
42.5°	10676.1	5357.2	2978.3	2787.0	2882.7	3010.2	3010.2	2621.2	2506.4	2461.7	2455.4
45°	11875.1	5248.8	2793.4	2685.0	2799.8	2831.6	2729.6	2455.4	2372.5	2359.7	2366.1
47.5°	12461.8	5038.3	2602.1	2563.8	2646.7	2653.1	2385.2	2321.4	2251.3	2232.2	2219.4
50°	12372.5	4662.0	2353.3	2404.4	2519.1	2455.4	2174.8	2187.5	2123.7	2117.4	2085.5
52.5°	11747.5	4068.9	2104.6	2225.8	2353.3	2168.4	2002.6	1989.8	1989.8	1906.9	1875.0
55°	10414.6	3278.1	1804.9	1957.9	2111.0	1824.0	1779.3	1766.6	1734.7	1658.2	1639.0
57.5°	8246.2	2404.4	1358.4	1524.2	1792.1	1549.8	1543.4	1486.0	1403.1	1345.7	1345.7
60°	4904.4	1383.9	854.6	931.1	1186.2	1256.4	1396.7	1371.2	1230.9	1141.6	1116.1
62.5°	2238.5	714.3	542.1	554.9	637.8	816.3	1096.9	1269.1	1071.4	918.4	905.6
65°	752.6	529.3	446.4	427.3	440.1	491.1	656.9	899.2	854.6	707.9	682.4
67.5°	459.2	471.9	420.9	389.0	389.0	382.7	376.3	408.2	503.8	491.1	497.5
70°	395.4	433.7	389.0	350.8	338.0	318.9	267.9	223.2	191.3	223.2	236.0
72.5°	318.9	344.4	331.6	299.7	267.9	242.3	191.3	146.7	108.4	95.7	95.7
75°	236.0	255.1	267.9	229.6	204.1	172.2	140.3	95.7	57.4	38.3	38.3
77.5°	172.2	191.3	197.7	178.6	153.1	121.2	89.3	63.8	31.9	12.8	12.8
80°	146.7	172.2	191.3	178.6	159.4	114.8	82.9	44.6	25.5	6.4	6.4
82.5°	140.3	172.2	191.3	172.2	153.1	108.4	82.9	51.0	19.1	6.4	6.4
85°	31.9	44.6	57.4	70.2	82.9	82.9	63.8	38.3	19.1	6.4	6.4
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	6.4	6.4	0.0
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)