

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: P533675

Luminaire Tested: **GALN-SA9A-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533675
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-SA9A-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 27419 lumens
Efficiency: N/A
Efficacy: 100.1 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

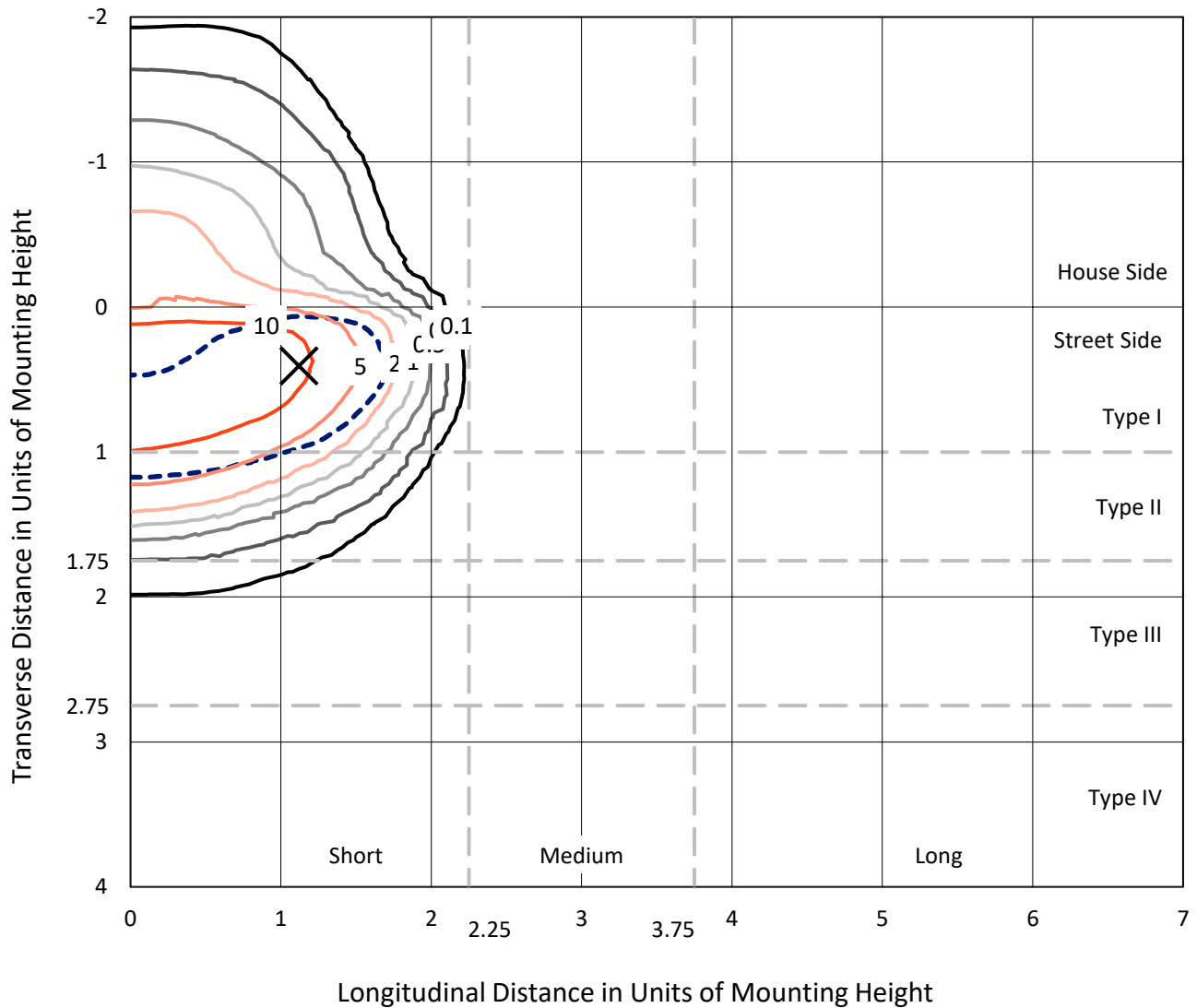
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

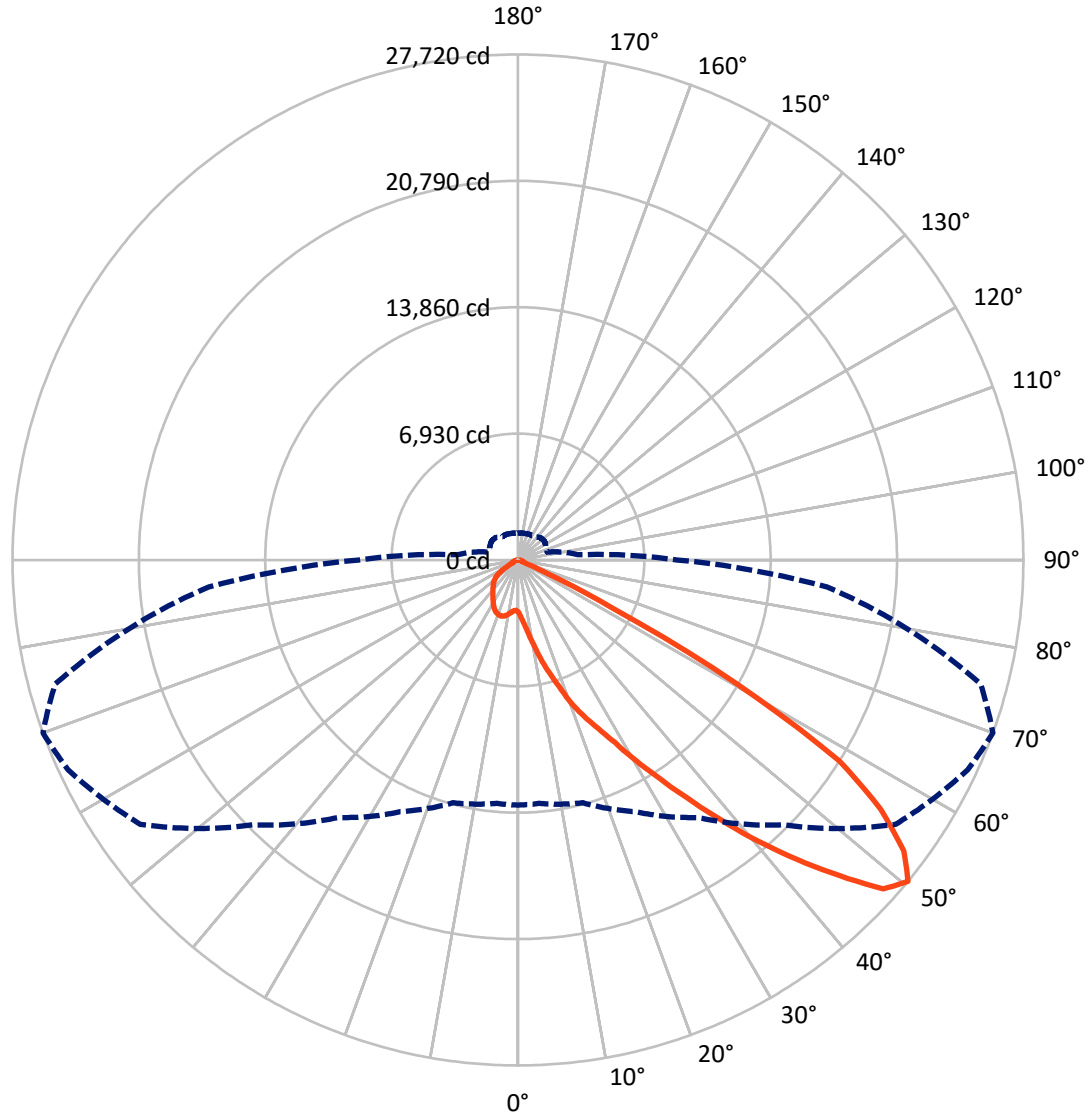
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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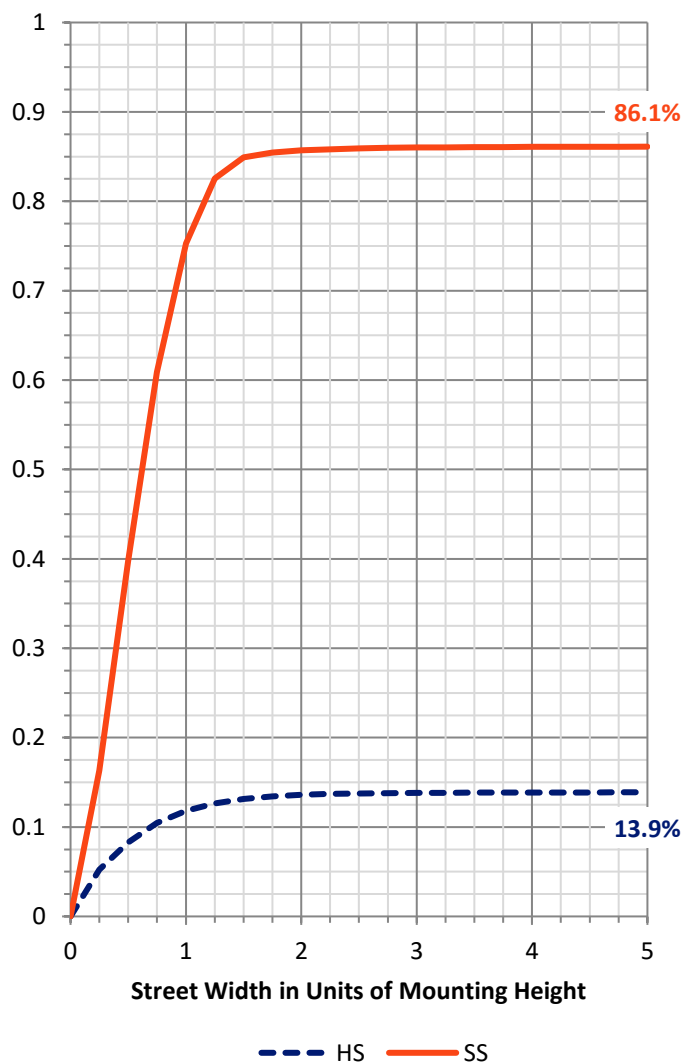
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3829.2	0.0	3829.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23589.7	0.0	23589.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	27419.0	0.0	27419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.3
10°-20°	1597.5	5.8
20°-30°	3351.3	12.2
30°-40°	5776.5	21.1
40°-50°	8442.4	30.8
50°-60°	6575.2	24.0
60°-70°	1114.0	4.1
70°-80°	153.0	0.6
80°-90°	39.6	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°	27419.0	100.0
0°-180°	27419.0	100.0

Coefficient of Utilization

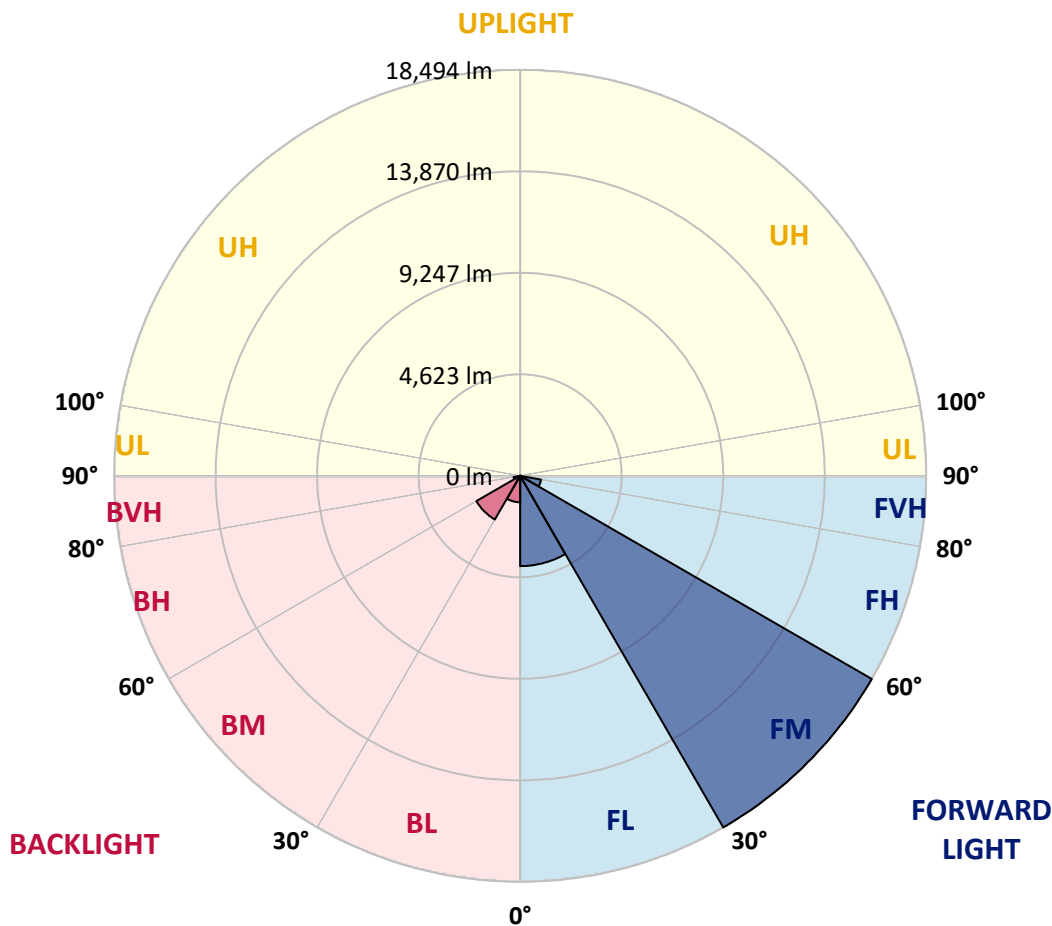


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4113.2	15.0			
FM (30°-60°)	18493.6	67.4			
FH (60°-80°)	964.6	3.5			G1/1800
FVH (80°-90°)	18.3	0.1			G1/100
BL (0°-30°)	1205.0	4.4	B3/2500		
BM (30°-60°)	2300.5	8.4	B2/2500		
BH (60°-80°)	302.5	1.1	B1/500		G1/500
BVH (80°-90°)	21.3	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°	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1
2.5°	3719.1	3692.1	3633.5	3525.3	3480.2	3372.0	3308.9	3187.2	3110.6	3024.9	2930.2
5°	5238.3	5098.6	5012.9	4891.2	4535.1	4314.2	3949.0	3638.0	3493.7	3336.0	3119.6
7.5°	6807.1	6717.0	6599.8	6338.3	6094.9	5635.1	5008.4	4323.2	4030.2	3759.7	3331.4
10°	8105.5	7853.0	7839.5	7645.6	7379.7	6829.7	6076.8	5224.8	4701.9	4305.2	3633.5
12.5°	9011.6	8781.7	8885.4	8862.8	8614.9	8110.0	7239.9	6112.9	5567.4	4949.8	3944.5
15°	9836.6	9741.9	9710.3	9683.3	9584.1	9209.9	8430.0	7194.8	6405.9	5662.1	4296.2
17.5°	10643.5	10400.1	10517.3	10539.8	10530.8	10192.7	9462.4	8222.7	7294.0	6414.9	4665.8
20°	11360.3	11382.8	11225.0	11193.5	11166.4	11152.9	10440.6	9241.5	8385.0	7203.9	5148.2
22.5°	12279.9	12122.1	12261.9	12171.7	11995.9	11887.7	11342.2	10143.1	9331.7	8155.1	5639.6
25°	13366.4	13492.6	13163.5	13127.4	12933.6	12559.4	12068.0	11152.9	10242.3	9038.6	6171.5
27.5°	14705.2	14484.3	14398.7	14200.3	13848.7	13690.9	13113.9	12194.3	11342.2	9967.3	6685.4
30°	15854.8	15796.2	15367.9	15133.5	14827.0	14822.5	14015.5	13605.3	12775.8	11423.4	7393.2
32.5°	16792.5	16535.5	16377.7	16215.4	15967.5	16035.1	15354.4	15138.0	14304.0	12775.8	8227.2
35°	17419.1	17234.3	17139.6	16891.6	16819.5	17121.6	16837.5	16747.4	16062.2	14678.2	9205.4
37.5°	17617.4	17676.0	17658.0	17347.0	17500.2	18316.2	18681.3	18446.9	18086.3	16684.3	10264.8
40°	17793.3	17833.8	17743.7	18108.8	18546.1	19474.8	20795.6	20407.9	20272.7	18717.4	11738.9
42.5°	17892.4	17860.9	17860.9	18492.0	19154.7	21021.0	22837.8	22580.8	22477.1	20881.3	13443.0
45°	17464.2	17157.6	17486.7	18343.2	19677.6	21782.9	24469.7	24825.8	24677.0	23455.4	15435.5
47.5°	15863.8	16053.1	16238.0	17383.0	19042.0	21548.5	25470.5	26683.1	26958.1	25619.2	16742.9
50°	13443.0	13402.4	13785.6	15228.2	17243.3	20538.7	25276.6	27219.6	27720.0	26268.4	17017.9
52.5°	9778.0	10075.5	10490.2	11923.8	14313.0	17924.0	22774.6	25835.6	26502.8	25470.5	16837.5
55°	5693.7	5364.6	6297.7	7510.4	9764.4	13519.6	19253.9	22900.9	24136.1	24018.9	15926.9
57.5°	2281.1	2208.9	2529.0	3408.1	5094.1	8380.5	14002.0	18816.6	20795.6	21999.3	13997.5
60°	1000.8	978.2	1149.6	1388.5	2082.7	3863.4	7659.2	11702.9	13767.6	15372.4	9633.7
62.5°	721.3	712.3	797.9	883.6	1100.0	1681.5	3218.7	4715.4	5878.5	7100.2	4314.2
65°	581.5	604.1	662.7	707.8	811.4	933.2	1136.0	1311.8	1609.4	1668.0	951.2
67.5°	473.3	491.4	545.5	595.1	613.1	504.9	522.9	459.8	459.8	410.2	329.1
70°	347.1	351.6	414.7	473.3	378.7	202.9	356.1	356.1	320.1	306.5	279.5
72.5°	257.0	261.5	311.1	293.0	148.8	126.2	261.5	288.5	261.5	247.9	225.4
75°	189.3	193.8	162.3	67.6	63.1	81.1	153.3	198.4	189.3	184.8	171.3
77.5°	36.1	27.0	22.5	31.6	45.1	67.6	99.2	121.7	126.2	135.2	126.2
80°	4.5	4.5	13.5	27.0	49.6	72.1	103.7	117.2	121.7	126.2	117.2
82.5°	0.0	4.5	13.5	27.0	49.6	67.6	90.2	103.7	112.7	117.2	112.7
85°	0.0	4.5	9.0	22.5	40.6	49.6	45.1	31.6	27.0	31.6	22.5
87.5°	0.0	0.0	4.5	4.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
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°	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1	2840.1
2.5°	2876.1	2858.1	2795.0	2727.4	2668.8	2695.8	2668.8	2646.2	2655.2	2646.2	2637.2
5°	3033.9	2952.8	2817.5	2758.9	2709.3	2704.8	2691.3	2686.8	2691.3	2691.3	2650.7
7.5°	3182.7	3051.9	2907.7	2844.6	2786.0	2790.5	2758.9	2758.9	2754.4	2731.9	2722.9
10°	3408.1	3232.3	3047.4	2934.7	2862.6	2849.1	2817.5	2786.0	2786.0	2786.0	2740.9
12.5°	3656.0	3435.1	3182.7	3051.9	2966.3	2898.7	2849.1	2840.1	2790.5	2781.5	2758.9
15°	3872.4	3592.9	3272.8	3092.5	2984.3	2894.2	2817.5	2767.9	2745.4	2731.9	2713.8
17.5°	4084.3	3728.2	3322.4	3092.5	2975.3	2871.6	2790.5	2745.4	2691.3	2700.3	2664.3
20°	4368.3	3872.4	3336.0	3033.9	2889.7	2790.5	2682.3	2659.7	2628.2	2601.1	2610.2
22.5°	4643.3	3976.1	3295.4	2961.8	2754.4	2637.2	2583.1	2556.1	2542.5	2520.0	2488.4
25°	4891.2	4088.8	3232.3	2831.1	2610.2	2524.5	2474.9	2470.4	2438.9	2438.9	2380.2
27.5°	5143.7	4129.4	3124.1	2677.8	2483.9	2434.3	2411.8	2402.8	2389.3	2357.7	2317.1
30°	5432.2	4142.9	2966.3	2520.0	2371.2	2317.1	2348.7	2371.2	2312.6	2254.0	2272.1
32.5°	5671.1	4111.3	2777.0	2371.2	2290.1	2263.0	2326.2	2348.7	2281.1	2218.0	2186.4
35°	5959.6	4034.7	2592.1	2254.0	2208.9	2263.0	2317.1	2317.1	2181.9	2105.3	2087.2
37.5°	6396.9	3949.0	2420.8	2154.8	2123.3	2236.0	2308.1	2258.5	2046.7	1952.0	1929.4
40°	6865.8	3895.0	2254.0	2055.7	2078.2	2190.9	2231.5	2078.2	1861.8	1803.2	1785.2
42.5°	7546.5	3786.8	2105.3	1970.0	2037.6	2127.8	2127.8	1852.8	1771.7	1740.1	1735.6
45°	8394.0	3710.1	1974.5	1897.9	1979.0	2001.6	1929.4	1735.6	1677.0	1668.0	1672.5
47.5°	8808.7	3561.4	1839.3	1812.2	1870.8	1875.3	1686.0	1640.9	1591.3	1577.8	1568.8
50°	8745.6	3295.4	1663.5	1699.5	1780.7	1735.6	1537.2	1546.3	1501.2	1496.7	1474.1
52.5°	8303.8	2876.1	1487.7	1573.3	1663.5	1532.7	1415.5	1406.5	1406.5	1347.9	1325.4
55°	7361.6	2317.1	1275.8	1384.0	1492.2	1289.3	1257.7	1248.7	1226.2	1172.1	1158.6
57.5°	5828.9	1699.5	960.2	1077.4	1266.8	1095.5	1090.9	1050.4	991.8	951.2	951.2
60°	3466.7	978.2	604.1	658.2	838.5	888.1	987.3	969.2	870.1	806.9	788.9
62.5°	1582.3	504.9	383.2	392.2	450.8	577.0	775.4	897.1	757.4	649.2	640.1
65°	531.9	374.2	315.6	302.0	311.1	347.1	464.3	635.6	604.1	500.4	482.4
67.5°	324.6	333.6	297.5	275.0	275.0	270.5	266.0	288.5	356.1	347.1	351.6
70°	279.5	306.5	275.0	247.9	238.9	225.4	189.3	157.8	135.2	157.8	166.8
72.5°	225.4	243.4	234.4	211.9	189.3	171.3	135.2	103.7	76.6	67.6	67.6
75°	166.8	180.3	189.3	162.3	144.3	121.7	99.2	67.6	40.6	27.0	27.0
77.5°	121.7	135.2	139.7	126.2	108.2	85.7	63.1	45.1	22.5	9.0	9.0
80°	103.7	121.7	135.2	126.2	112.7	81.1	58.6	31.6	18.0	4.5	4.5
82.5°	99.2	121.7	135.2	121.7	108.2	76.6	58.6	36.1	13.5	4.5	4.5
85°	22.5	31.6	40.6	49.6	58.6	58.6	45.1	27.0	13.5	4.5	4.5
87.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	4.5	4.5	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)