

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: P531894

Luminaire Tested: **GALN-SA7B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29909 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

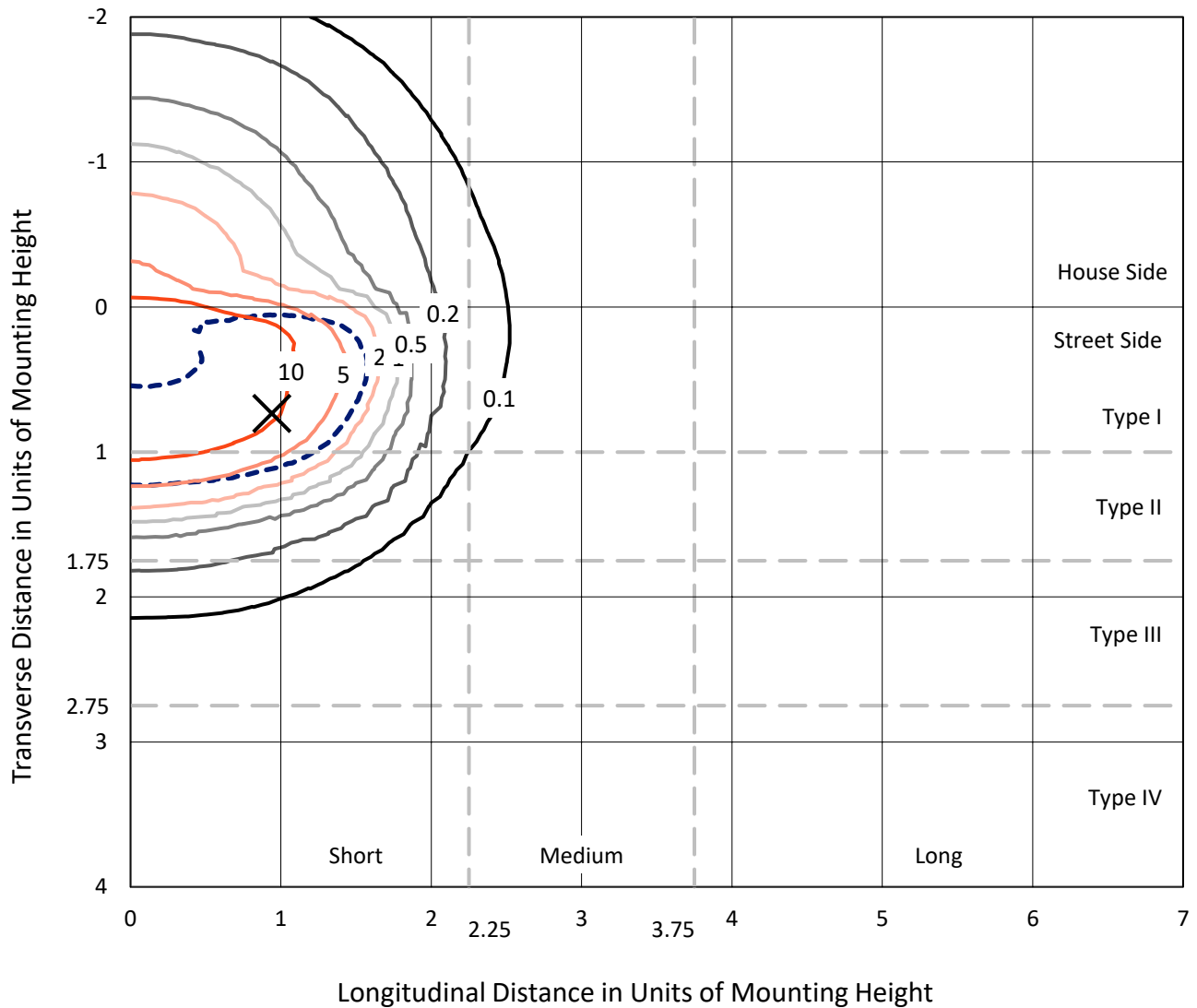
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

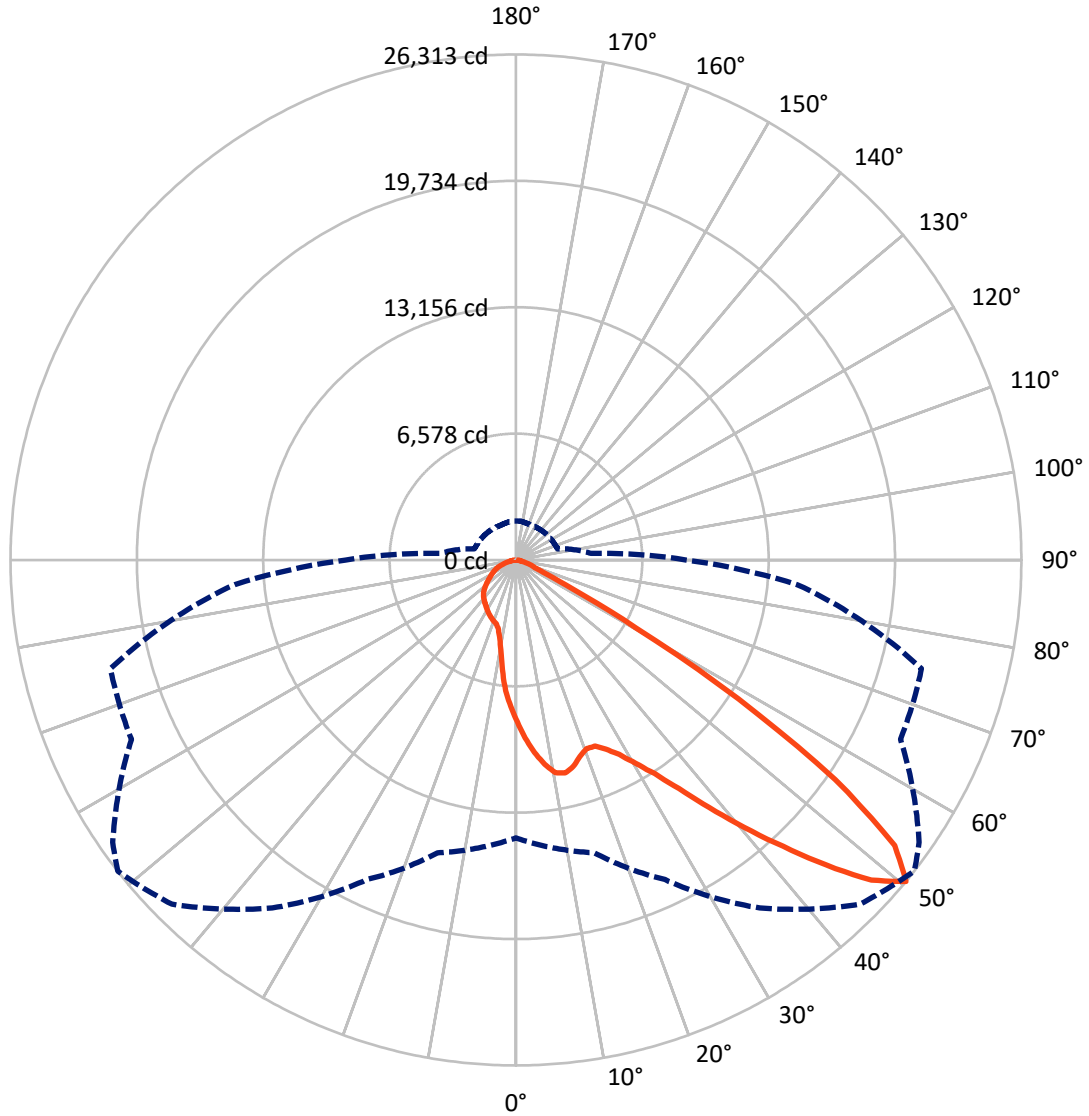
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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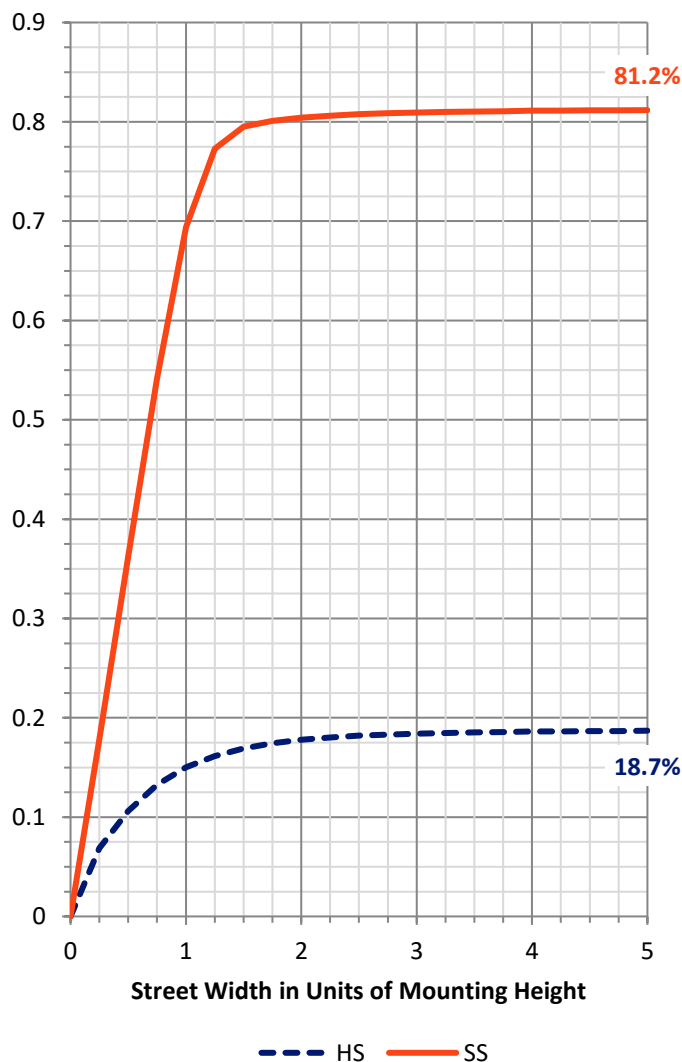
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5622.2	0.0	5622.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24286.8	0.0	24286.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	29909.0	0.0	29909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.1	2.6
10°-20°	2082.7	7.0
20°-30°	3508.3	11.7
30°-40°	5887.2	19.7
40°-50°	9006.0	30.1
50°-60°	6566.1	22.0
60°-70°	1461.3	4.9
70°-80°	527.1	1.8
80°-90°	93.3	0.3
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°	29909.0	100.0
0°-180°	29909.0	100.0

Coefficient of Utilization



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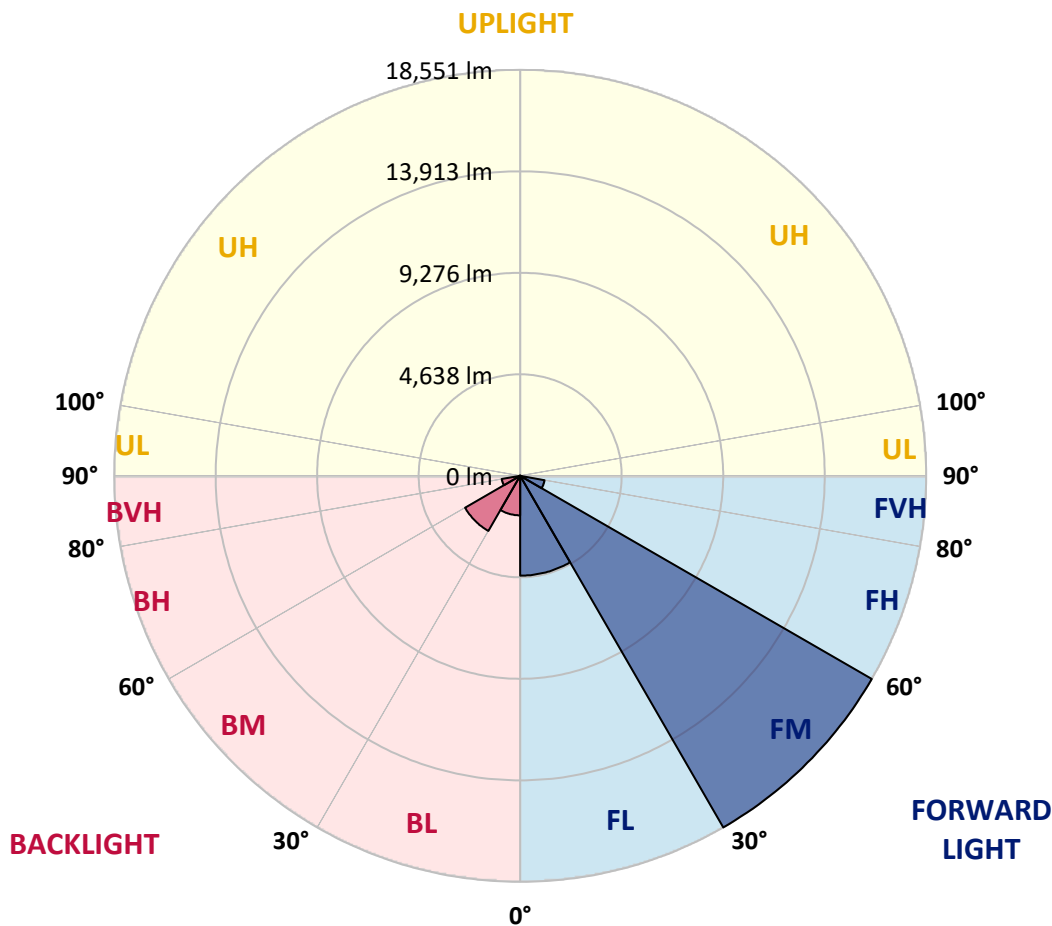
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4562.1	15.3			
FM	(30°-60°)	18551.1	62.0			
FH	(60°-80°)	1131.8	3.8			G1/1800
FVH	(80°-90°)	41.8	0.1			G1/100
BL	(0°-30°)	1806.0	6.0	B3/2500		
BM	(30°-60°)	2908.2	9.7	B3/5000		
BH	(60°-80°)	856.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	51.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9
2.5°	9926.7	9735.7	9757.3	9620.3	9472.5	9429.3	9277.9	9133.7	9025.6	8794.9	8582.2
5°	10849.4	10791.8	10705.3	10597.1	10485.4	10211.5	10056.5	9876.2	9479.8	9122.9	8769.7
7.5°	10982.8	10972.0	11018.9	11018.9	11058.5	10954.0	10734.1	10608.0	10186.2	9605.9	8949.9
10°	10045.7	10078.1	10305.2	10600.7	11011.7	11296.4	11260.4	11227.9	10766.5	9973.6	9162.6
12.5°	9299.5	9227.4	9360.8	9613.1	10229.5	10917.9	11382.9	11386.5	11267.6	10561.1	9317.6
15°	8877.8	8928.3	8964.3	9083.3	9548.2	10344.8	11163.0	11404.5	11927.2	10975.6	9562.7
17.5°	9148.1	8978.7	8971.5	9000.4	9238.3	9836.6	10755.7	11170.2	12287.6	11509.1	9865.4
20°	9501.4	9497.8	9396.8	9360.8	9357.2	9890.7	10489.0	11051.3	12478.7	12201.1	10171.8
22.5°	10121.3	10121.3	9955.5	9876.2	9706.8	10143.0	10525.0	10907.1	12795.9	12676.9	10319.6
25°	11159.4	10990.0	10705.3	10510.6	10413.3	10568.3	10907.1	11249.5	13073.4	13181.5	10626.0
27.5°	12118.2	11851.5	11710.9	11375.7	11245.9	11155.8	11465.8	11811.8	13397.8	13967.3	10791.8
30°	13206.8	13159.9	12907.6	12475.1	12154.3	11988.5	12273.2	12615.6	13992.5	14771.1	11173.9
32.5°	15153.2	14727.9	14385.4	13855.6	13332.9	12979.7	13260.8	13487.9	14980.2	15611.0	11592.0
35°	17254.6	17117.6	16526.5	15571.3	14771.1	14453.9	14619.7	14789.1	16130.0	16894.1	12294.8
37.5°	19319.9	19132.5	18645.9	17842.1	16868.9	16223.7	16342.7	16540.9	17420.4	18624.3	13152.7
40°	20805.0	20574.3	20329.2	20210.3	19244.3	18361.2	18292.7	18343.1	19165.0	20246.3	14104.3
42.5°	20913.1	21197.9	21273.6	21753.0	21525.9	20801.4	20379.7	20390.5	20830.2	21850.3	15066.7
45°	20686.0	20422.9	20981.6	22290.0	23039.8	23378.6	22668.5	22578.4	21861.1	22780.2	15546.1
47.5°	18303.5	18375.6	19319.9	21388.9	23555.2	25069.1	24903.3	24604.1	22412.6	22747.8	15470.4
50°	14468.3	14904.5	15780.4	18357.6	22113.4	25335.8	26312.6	25620.6	22084.6	21853.9	14699.0
52.5°	9634.7	9815.0	10391.7	13718.6	17780.8	22646.9	24690.6	24849.2	21781.8	20682.4	13722.2
55°	4289.3	4274.9	5085.9	7165.7	11155.8	17233.0	20174.2	21140.2	20617.6	19489.4	12770.6
57.5°	1816.7	1877.9	2209.5	3096.2	5486.0	10398.9	13668.1	14515.2	15856.1	16003.8	9796.9
60°	1229.1	1236.3	1326.4	1549.9	2296.0	4884.1	7169.3	8185.7	9144.5	9079.7	5197.6
62.5°	966.0	991.2	1059.7	1149.8	1362.5	2216.7	3208.0	3773.9	3835.2	3226.0	1971.6
65°	825.4	829.0	897.5	973.2	1066.9	1290.4	1546.3	1575.2	1593.2	1535.5	1449.0
67.5°	681.2	688.5	742.5	829.0	915.5	987.6	1059.7	1095.8	1178.7	1340.9	1319.2
70°	540.7	551.5	598.3	670.4	749.7	793.0	883.1	915.5	991.2	1117.4	1167.8
72.5°	410.9	414.5	454.2	504.6	576.7	620.0	695.7	731.7	782.2	890.3	937.2
75°	295.6	306.4	335.2	360.4	371.3	400.1	472.2	511.8	583.9	630.8	634.4
77.5°	155.0	162.2	169.4	169.4	205.5	259.5	306.4	328.0	378.5	414.5	396.5
80°	61.3	64.9	82.9	111.7	144.2	187.4	219.9	230.7	273.9	295.6	306.4
82.5°	36.0	39.6	54.1	79.3	104.5	133.4	158.6	169.4	198.2	223.5	230.7
85°	18.0	21.6	32.4	50.5	68.5	82.9	79.3	75.7	75.7	72.1	75.7
87.5°	7.2	7.2	10.8	10.8	10.8	14.4	18.0	18.0	18.0	21.6	21.6
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°	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9	8430.9
2.5°	8441.7	8297.5	8164.1	7919.0	7652.3	7576.6	7266.6	7154.9	7075.6	6981.9	6953.0
5°	8484.9	8293.9	7864.9	7371.1	6978.3	6473.6	6142.0	5785.2	5525.6	5460.8	5442.7
7.5°	8575.0	8247.0	7508.1	6762.0	5958.2	5273.3	4750.7	4469.5	4220.8	4206.4	4181.2
10°	8676.0	8106.4	7118.8	5947.4	4920.1	4285.7	3972.1	3849.6	3788.3	3773.9	3766.7
12.5°	8758.9	8077.6	6682.7	5154.4	4184.8	3802.7	3709.0	3698.2	3723.4	3730.6	3745.0
15°	8794.9	7962.3	6156.4	4444.3	3727.0	3586.4	3626.1	3669.3	3687.4	3734.2	3698.2
17.5°	8863.4	7814.5	5507.6	3882.0	3471.1	3496.3	3564.8	3615.3	3644.1	3676.6	3629.7
20°	8899.4	7681.1	4898.5	3546.8	3381.0	3427.8	3521.6	3561.2	3597.3	3611.7	3557.6
22.5°	8867.0	7407.2	4361.4	3276.5	3294.5	3355.8	3438.7	3481.9	3460.3	3402.6	3370.2
25°	8780.5	7021.5	3802.7	3103.4	3171.9	3280.1	3344.9	3312.5	3272.9	3240.4	3229.6
27.5°	8776.9	6549.3	3399.0	2944.9	3067.4	3215.2	3193.6	3164.7	3182.7	3157.5	3128.7
30°	8794.9	6091.6	3067.4	2854.7	2991.7	3063.8	3089.0	3060.2	3081.8	3035.0	3049.4
32.5°	8701.2	5644.6	2851.1	2750.2	2901.6	2898.0	2980.9	3002.5	2952.1	2854.7	2869.2
35°	8740.8	5284.2	2667.3	2703.4	2800.7	2800.7	2865.6	2840.3	2707.0	2649.3	2663.7
37.5°	9014.8	4930.9	2577.2	2638.5	2703.4	2732.2	2710.6	2602.4	2570.0	2570.0	2577.2
40°	9274.3	4628.1	2523.1	2624.1	2613.2	2631.3	2472.7	2483.5	2483.5	2487.1	2469.1
42.5°	9505.0	4422.7	2479.9	2537.5	2555.6	2461.9	2364.5	2353.7	2378.9	2375.3	2360.9
45°	9587.9	4253.3	2418.6	2440.2	2454.6	2299.7	2252.8	2231.2	2260.0	2270.8	2285.2
47.5°	9270.7	4112.7	2350.1	2306.9	2278.0	2177.1	2115.8	2076.2	2112.2	2173.5	2187.9
50°	8863.4	3928.9	2242.0	2159.1	2097.8	2054.5	2011.3	1971.6	1996.9	2040.1	2029.3
52.5°	8261.4	3640.5	2105.0	2018.5	1914.0	1924.8	1885.1	1863.5	1877.9	1877.9	1867.1
55°	7403.6	2991.7	1874.3	1813.0	1726.5	1755.4	1762.6	1733.7	1704.9	1730.1	1708.5
57.5°	5053.5	2112.2	1672.5	1672.5	1586.0	1625.6	1622.0	1553.5	1485.0	1492.2	1477.8
60°	2923.2	1683.3	1542.7	1528.3	1438.2	1470.6	1477.8	1431.0	1326.4	1333.7	1319.2
62.5°	1661.7	1438.2	1348.1	1326.4	1308.4	1337.3	1337.3	1276.0	1185.9	1193.1	1178.7
65°	1413.0	1333.7	1203.9	1200.3	1193.1	1200.3	1171.5	1106.6	1027.3	994.8	998.4
67.5°	1283.2	1232.7	1106.6	1074.1	1052.5	1048.9	994.8	933.6	897.5	868.7	865.1
70°	1124.6	1084.9	991.2	948.0	926.3	875.9	821.8	782.2	731.7	717.3	731.7
72.5°	890.3	886.7	850.7	803.8	756.9	717.3	670.4	616.4	569.5	558.7	533.5
75°	616.4	623.6	630.8	623.6	583.9	533.5	479.4	436.1	378.5	346.0	338.8
77.5°	403.7	414.5	425.3	410.9	385.7	338.8	302.8	248.7	205.5	180.2	176.6
80°	295.6	310.0	317.2	306.4	277.5	241.5	201.9	158.6	126.2	104.5	104.5
82.5°	227.1	241.5	248.7	230.7	201.9	173.0	144.2	111.7	86.5	68.5	64.9
85°	79.3	75.7	90.1	93.7	111.7	104.5	86.5	64.9	50.5	36.0	32.4
87.5°	21.6	21.6	25.2	25.2	21.6	18.0	18.0	18.0	14.4	10.8	10.8
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)