

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: P530423

Luminaire Tested: **GALN-SA5C-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15267 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

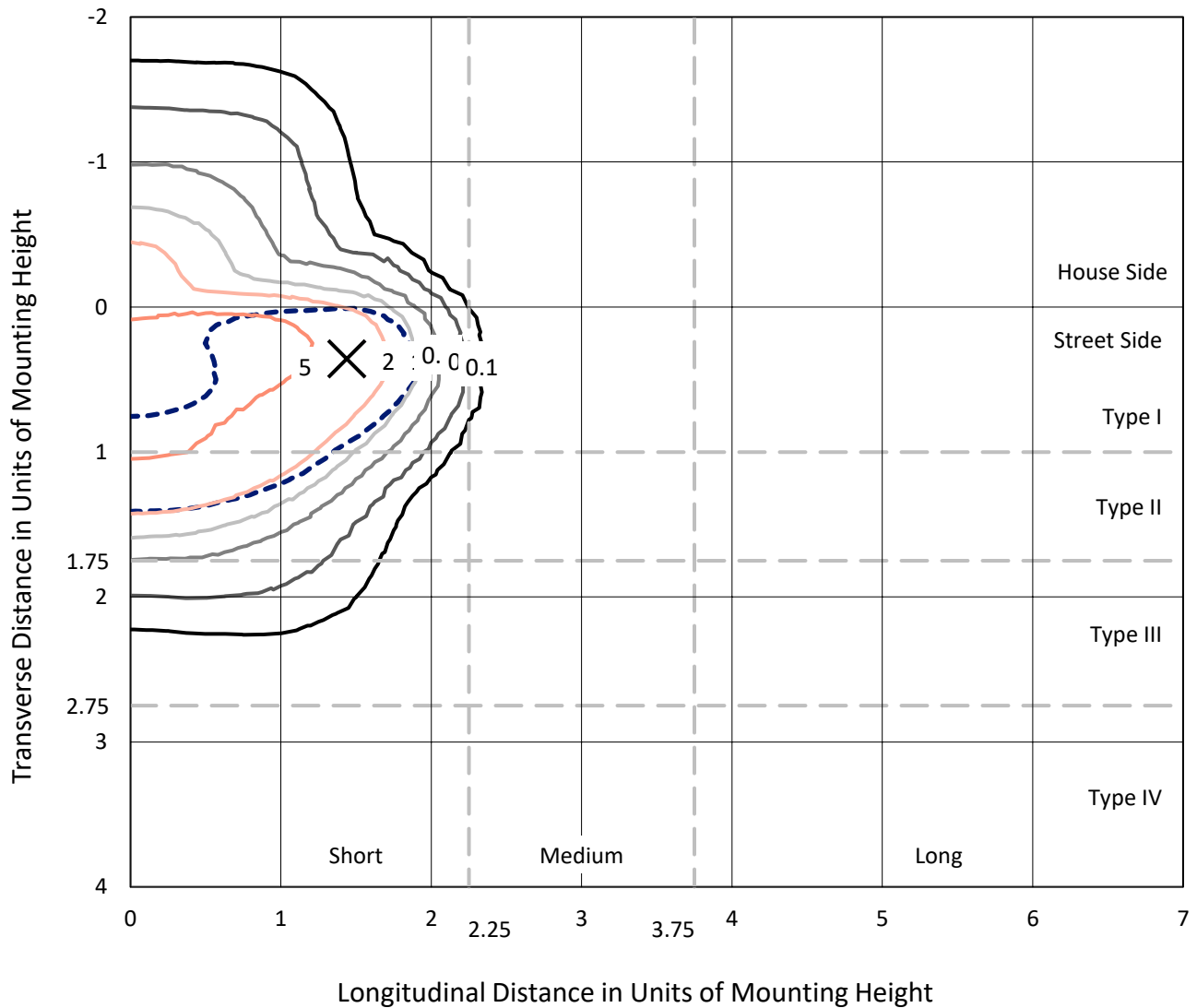
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

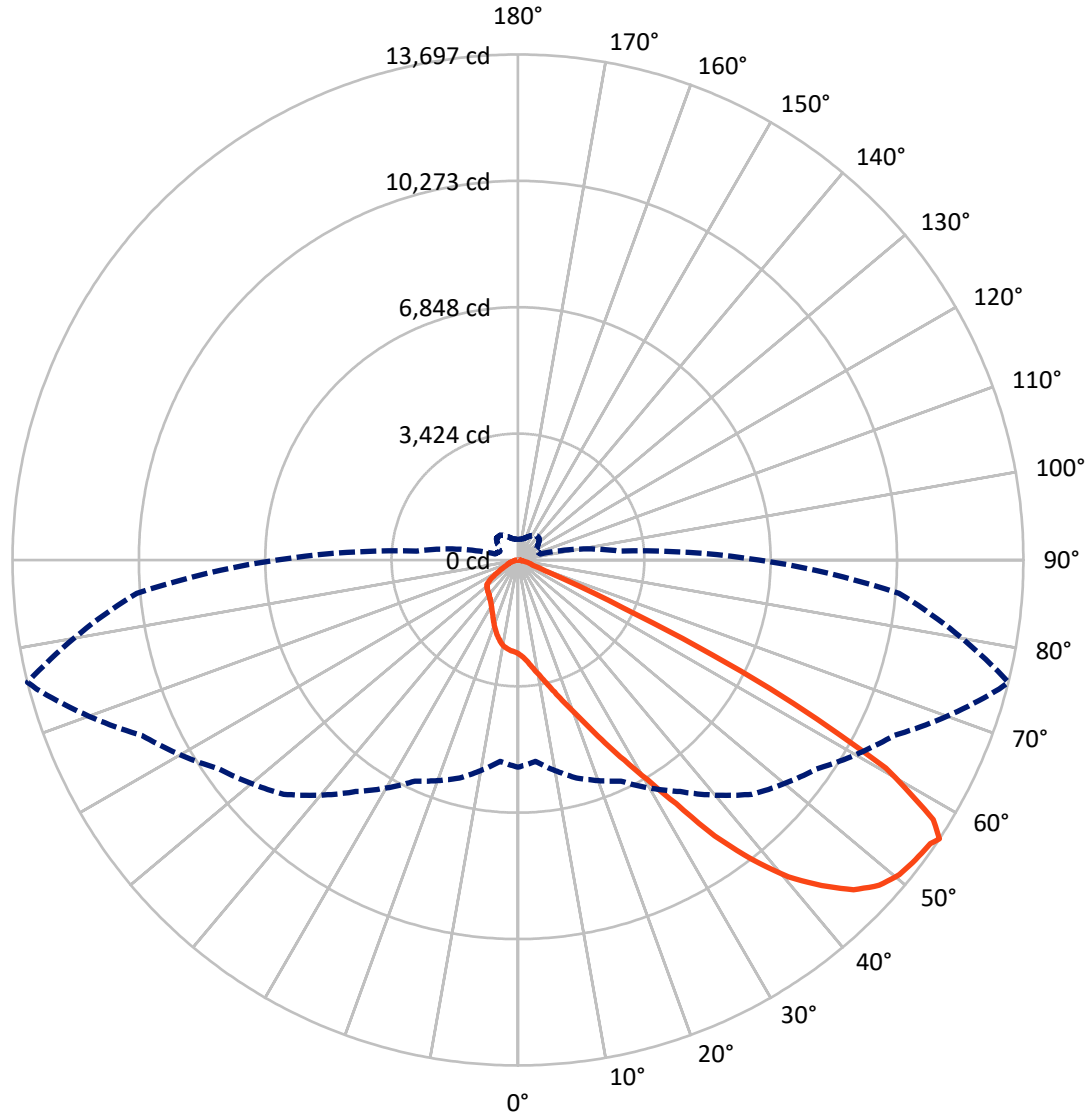
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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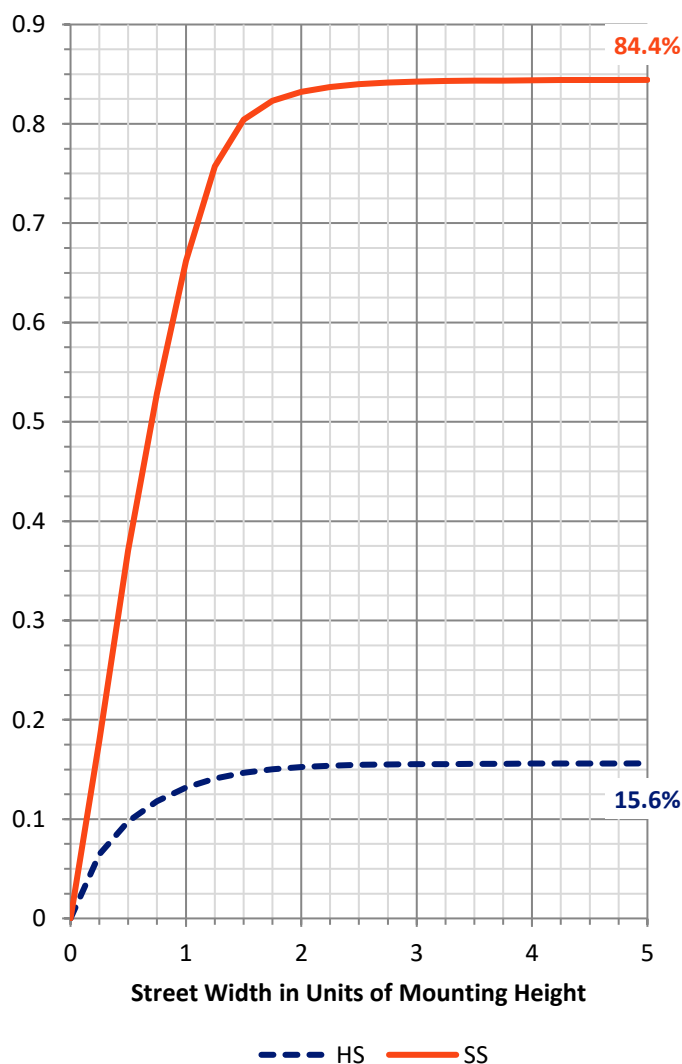
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2398.4	0.0	2398.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12868.6	0.0	12868.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	15267.0	0.0	15267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	1.7
10°-20°	822.4	5.4
20°-30°	1491.2	9.8
30°-40°	2571.7	16.8
40°-50°	4177.8	27.4
50°-60°	4403.6	28.8
60°-70°	1345.5	8.8
70°-80°	172.5	1.1
80°-90°	26.2	0.2
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°	15267.0	100.0
0°-180°	15267.0	100.0

Coefficient of Utilization



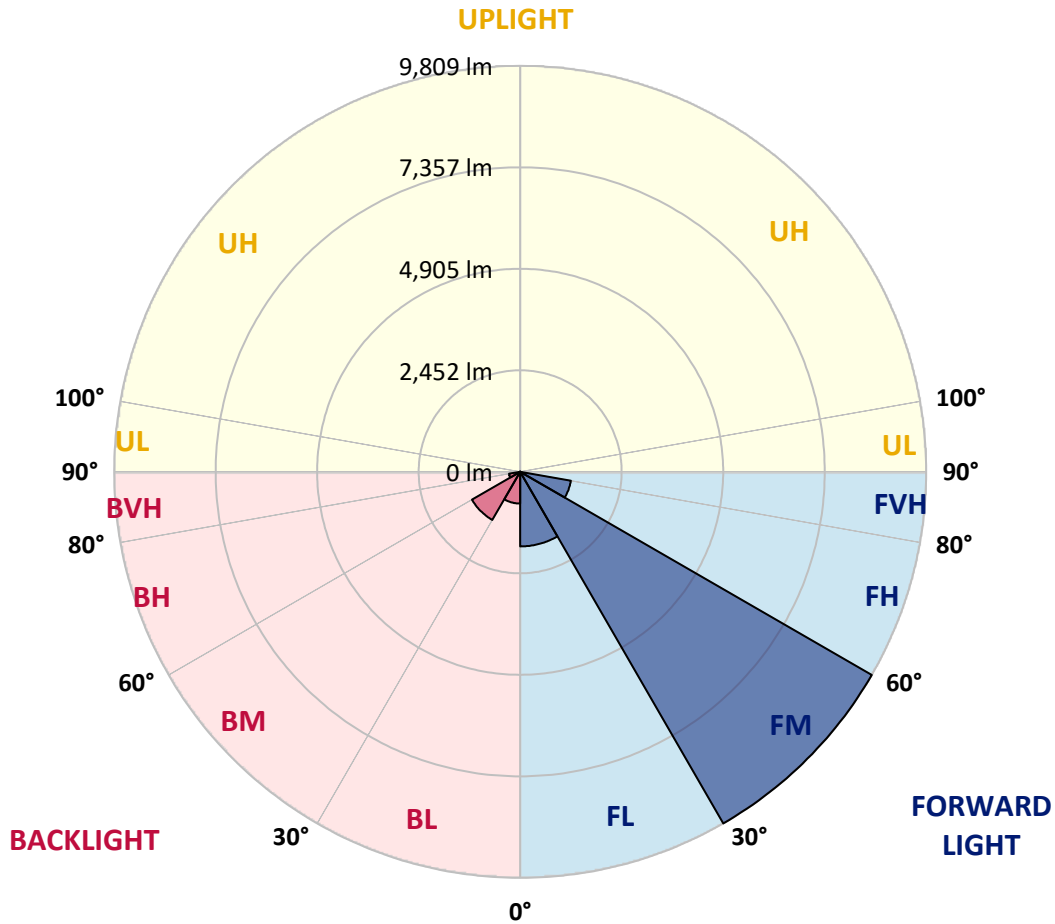
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.4	11.8			
FM (30°-60°)	9809.0	64.2			
FH (60°-80°)	1244.4	8.2			G1/1800
FVH (80°-90°)	12.8	0.1			G1/100
BL (0°-30°)	767.2	5.0	B2/1000		
BM (30°-60°)	1344.1	8.8	B2/2500		
BH (60°-80°)	273.6	1.8	B1/500		G1/500
BVH (80°-90°)	13.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2
2.5°	2926.8	2859.2	2862.0	2856.4	2848.0	2817.0	2724.1	2710.1	2648.2	2631.3	2575.0
5°	3278.5	3219.4	3253.2	3202.6	3154.7	3126.6	2974.6	2904.2	2805.7	2769.2	2690.4
7.5°	3498.0	3469.9	3458.6	3461.5	3416.4	3346.1	3278.5	3123.8	2991.5	2963.3	2797.3
10°	3605.0	3588.1	3605.0	3596.5	3616.2	3624.7	3506.5	3413.6	3219.4	3171.6	2912.7
12.5°	3630.3	3664.1	3678.1	3714.7	3762.6	3844.2	3835.7	3709.1	3450.2	3419.2	3090.0
15°	3692.2	3720.4	3706.3	3765.4	3855.4	3993.3	4066.5	4046.8	3768.2	3711.9	3295.4
17.5°	3748.5	3697.8	3745.7	3863.9	3953.9	4165.0	4342.3	4423.9	4114.3	4049.6	3484.0
20°	3824.5	3810.4	3802.0	3861.1	4021.5	4302.9	4654.7	4803.8	4502.7	4435.2	3754.1
22.5°	4055.3	4058.1	4052.4	3965.2	4080.6	4398.6	4927.6	5296.3	4967.0	4910.8	4060.9
25°	4359.2	4322.6	4294.5	4224.1	4210.0	4485.8	5203.4	5898.5	5524.3	5484.9	4393.0
27.5°	4680.0	4680.0	4595.6	4530.8	4440.8	4702.5	5456.7	6483.9	6196.9	6143.4	4682.8
30°	5029.0	5048.7	5037.4	4899.5	4843.2	4938.9	5715.6	7232.5	6967.9	6900.4	5161.2
32.5°	5544.0	5501.7	5549.6	5434.2	5268.2	5352.6	6123.7	7902.3	7969.8	7874.1	5788.8
35°	6225.0	6199.7	6168.7	5980.2	5783.2	5850.7	6700.6	8726.8	9227.7	9179.9	6422.0
37.5°	6835.7	6821.6	6796.3	6666.8	6438.9	6520.5	7356.3	9585.1	10454.7	10297.1	7316.9
40°	7477.3	7553.3	7471.7	7356.3	7148.0	7328.2	8127.4	10094.5	11487.5	11296.2	8000.7
42.5°	8346.9	8287.8	8324.4	8113.3	8000.7	8197.7	8901.3	10603.9	12289.6	12061.6	8726.8
45°	9272.8	9275.6	9177.1	9109.5	8816.9	9030.7	9376.9	10885.3	12928.4	12751.1	9275.6
47.5°	9866.6	9863.7	9970.7	10077.6	9776.5	9565.4	9700.5	11152.6	13257.7	13176.0	9475.4
50°	9773.7	9801.8	9939.7	10339.3	10496.9	10212.7	10004.5	11073.8	13406.8	13398.4	9647.0
52.5°	8501.7	8594.5	8825.3	9402.2	10195.8	10547.6	10322.5	11220.2	13480.0	13494.0	9903.1
55°	6472.6	6523.3	6962.3	7663.0	8541.1	9745.5	10195.8	11335.6	13536.3	13561.6	10212.7
56°	5614.3	5479.2	6112.4	6610.5	7660.2	8977.3	9875.0	11245.5	13502.5	13696.7	10367.5
57.5°	4238.2	4148.1	4660.3	5282.2	6292.5	7682.7	8878.8	10820.6	13274.5	13271.7	10145.2
60°	2577.8	2487.7	2881.7	3247.6	3813.2	4730.7	5999.9	8617.1	11223.0	11459.4	8214.6
62.5°	1533.7	1590.0	1978.4	2200.7	2383.6	2479.3	3104.1	5121.8	7488.6	7657.4	5096.5
65°	1021.6	1041.3	1333.9	1699.8	1781.4	1418.4	1263.6	2074.1	3247.6	3143.5	2102.2
67.5°	630.4	675.4	894.9	1277.6	1415.5	1035.6	599.4	773.9	894.9	894.9	607.9
70°	382.7	405.2	596.6	869.6	970.9	667.0	436.2	436.2	430.6	422.1	363.0
72.5°	182.9	197.0	303.9	447.5	455.9	351.8	337.7	368.7	360.2	357.4	301.1
75°	78.8	84.4	106.9	140.7	160.4	149.2	205.4	264.5	273.0	264.5	216.7
77.5°	25.3	28.1	39.4	50.7	53.5	64.7	87.2	109.8	126.6	118.2	106.9
80°	2.8	5.6	11.3	25.3	39.4	50.7	64.7	73.2	81.6	81.6	76.0
82.5°	2.8	2.8	11.3	22.5	36.6	47.8	61.9	70.4	81.6	84.4	78.8
85°	0.0	2.8	8.4	19.7	31.0	31.0	28.1	28.1	19.7	19.7	19.7
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2	2541.2
2.5°	2563.7	2558.1	2482.1	2434.3	2408.9	2358.3	2327.3	2304.8	2287.9	2268.2	2271.1
5°	2597.5	2577.8	2451.2	2363.9	2259.8	2203.5	2155.7	2116.3	2090.9	2085.3	2074.1
7.5°	2693.2	2589.1	2397.7	2240.1	2107.8	2051.5	2009.3	1984.0	1995.3	1969.9	1989.6
10°	2766.4	2611.6	2333.0	2105.0	1972.7	1930.5	1908.0	1927.7	1955.9	1944.6	1930.5
12.5°	2856.4	2634.1	2228.8	1975.6	1851.7	1820.8	1860.2	1896.8	1953.0	1975.6	1947.4
15°	2957.7	2659.4	2096.6	1826.4	1747.6	1772.9	1840.5	1905.2	1961.5	1989.6	2006.5
17.5°	3081.5	2651.0	1967.1	1708.2	1649.1	1722.3	1803.9	1863.0	1947.4	1989.6	1978.4
20°	3196.9	2622.8	1823.6	1590.0	1592.8	1660.4	1727.9	1823.6	1868.6	1924.9	1905.2
22.5°	3306.7	2572.2	1674.4	1508.4	1508.4	1612.5	1646.3	1708.2	1747.6	1775.8	1772.9
25°	3461.5	2476.5	1550.6	1429.6	1463.4	1530.9	1559.1	1578.8	1561.9	1584.4	1587.2
27.5°	3571.2	2378.0	1449.3	1359.3	1421.2	1471.8	1463.4	1452.1	1412.7	1381.8	1401.5
30°	3689.4	2262.6	1362.1	1311.4	1345.2	1390.2	1356.4	1322.7	1260.8	1210.1	1212.9
32.5°	3858.3	2209.1	1286.1	1255.1	1300.2	1305.8	1269.2	1218.5	1156.6	1108.8	1106.0
35°	4173.4	2175.4	1221.4	1218.5	1227.0	1229.8	1193.2	1131.3	1106.0	1066.6	1080.6
37.5°	4488.6	2158.5	1176.3	1165.1	1162.3	1165.1	1122.9	1063.8	1111.6	1108.8	1114.4
40°	4891.1	2234.5	1111.6	1097.5	1100.3	1100.3	1046.9	1030.0	1114.4	1122.9	1125.7
42.5°	5299.1	2330.2	1069.4	1024.4	1035.6	1035.6	1007.5	987.8	1046.9	990.6	982.2
45°	5653.7	2470.9	1024.4	951.2	979.3	993.4	985.0	951.2	914.6	818.9	818.9
47.5°	5769.1	2594.7	970.9	880.8	903.4	965.3	939.9	869.6	804.9	726.1	720.4
50°	5971.7	2729.8	928.7	799.2	847.1	923.1	897.7	827.4	754.2	697.9	700.7
52.5°	6180.0	2884.5	849.9	703.5	762.6	889.3	889.3	810.5	697.9	658.5	652.9
55°	6492.3	2878.9	709.2	576.9	681.0	838.6	852.7	726.1	624.8	593.8	593.8
56°	6537.4	2749.5	638.8	540.3	644.4	824.6	827.4	703.5	596.6	562.8	562.8
57.5°	6199.7	2482.1	560.0	495.3	599.4	799.2	802.0	683.8	574.1	526.3	520.6
60°	4770.1	1680.1	467.2	441.8	543.1	720.4	734.5	621.9	503.7	467.2	464.3
62.5°	2693.2	931.5	410.9	399.6	467.2	613.5	655.7	543.1	427.8	408.1	413.7
65°	1229.8	512.2	346.1	323.6	377.1	472.8	529.1	447.5	351.8	329.3	329.3
67.5°	450.3	349.0	295.5	256.1	264.5	306.7	343.3	289.9	233.6	199.8	208.3
70°	320.8	292.7	258.9	222.3	205.4	199.8	197.0	163.2	115.4	90.1	95.7
72.5°	258.9	242.0	216.7	188.6	160.4	135.1	115.4	84.4	53.5	36.6	33.8
75°	185.7	177.3	157.6	135.1	112.6	95.7	78.8	53.5	28.1	14.1	14.1
77.5°	95.7	95.7	92.9	84.4	70.4	56.3	45.0	31.0	16.9	5.6	5.6
80°	73.2	78.8	81.6	73.2	64.7	50.7	36.6	22.5	11.3	2.8	2.8
82.5°	70.4	81.6	87.2	76.0	64.7	47.8	36.6	22.5	11.3	2.8	2.8
85°	16.9	16.9	25.3	28.1	36.6	39.4	31.0	19.7	8.4	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	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)