

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: P651785

Luminaire Tested: **GALN-SA3A-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9497.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

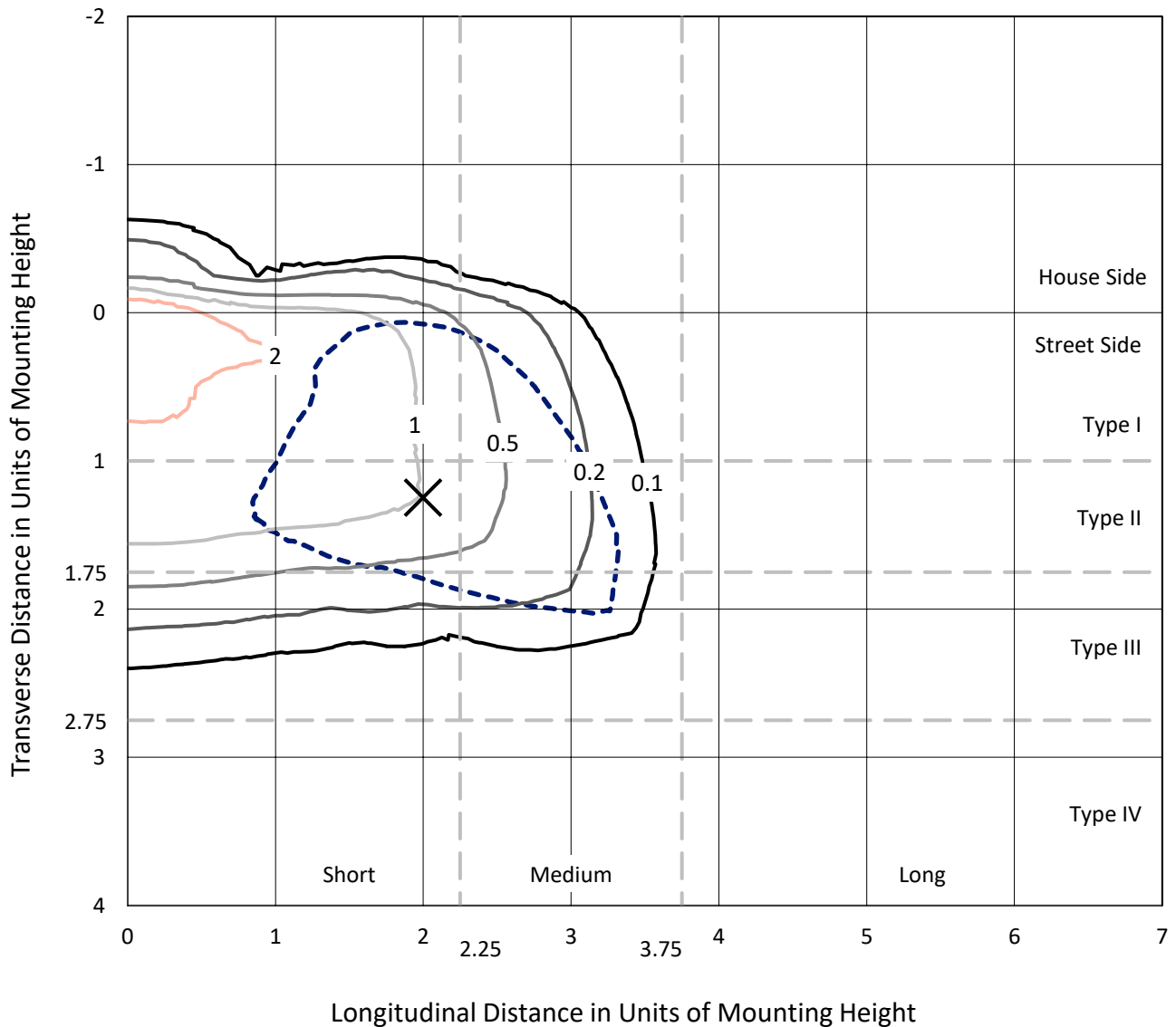
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

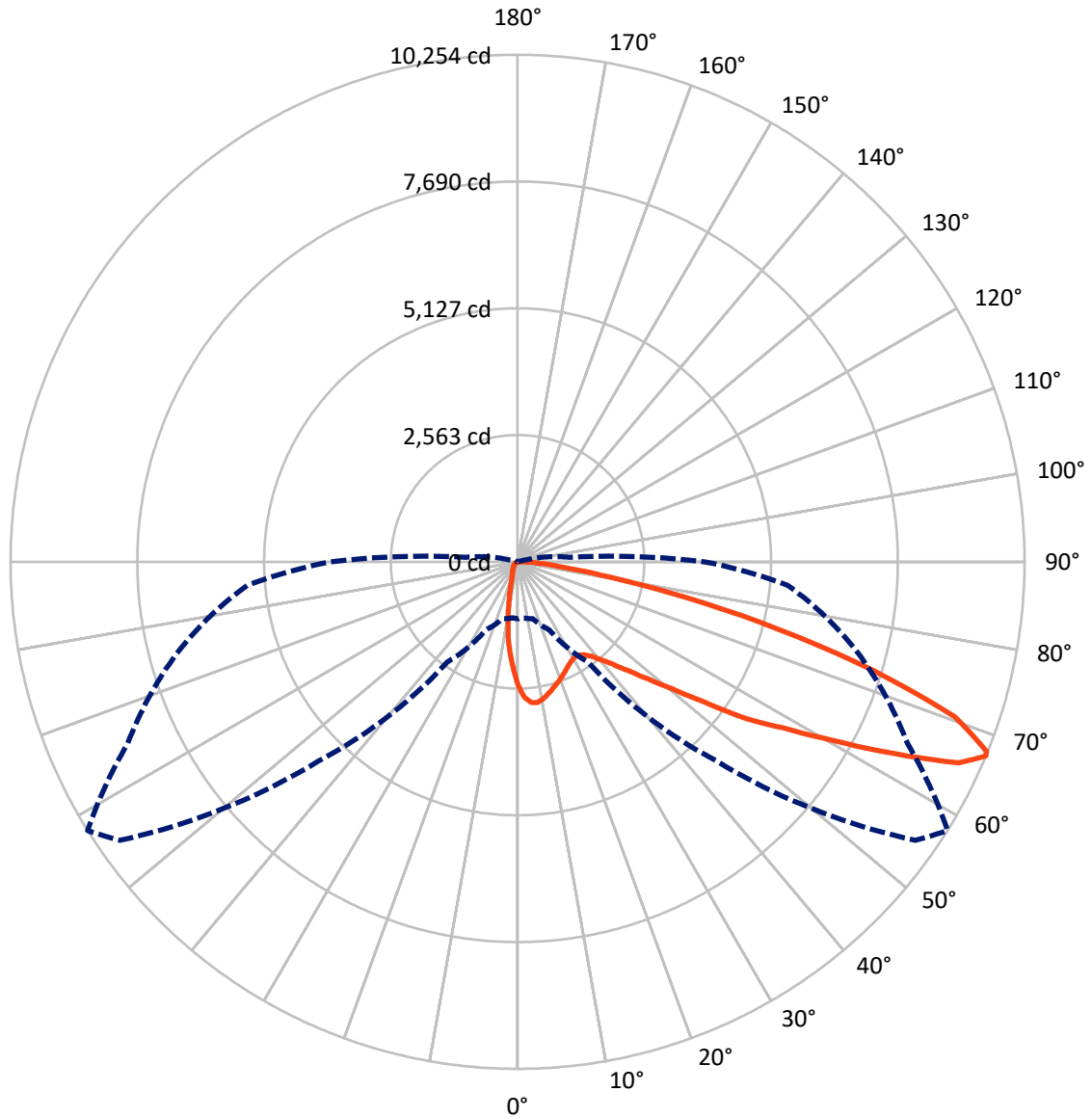
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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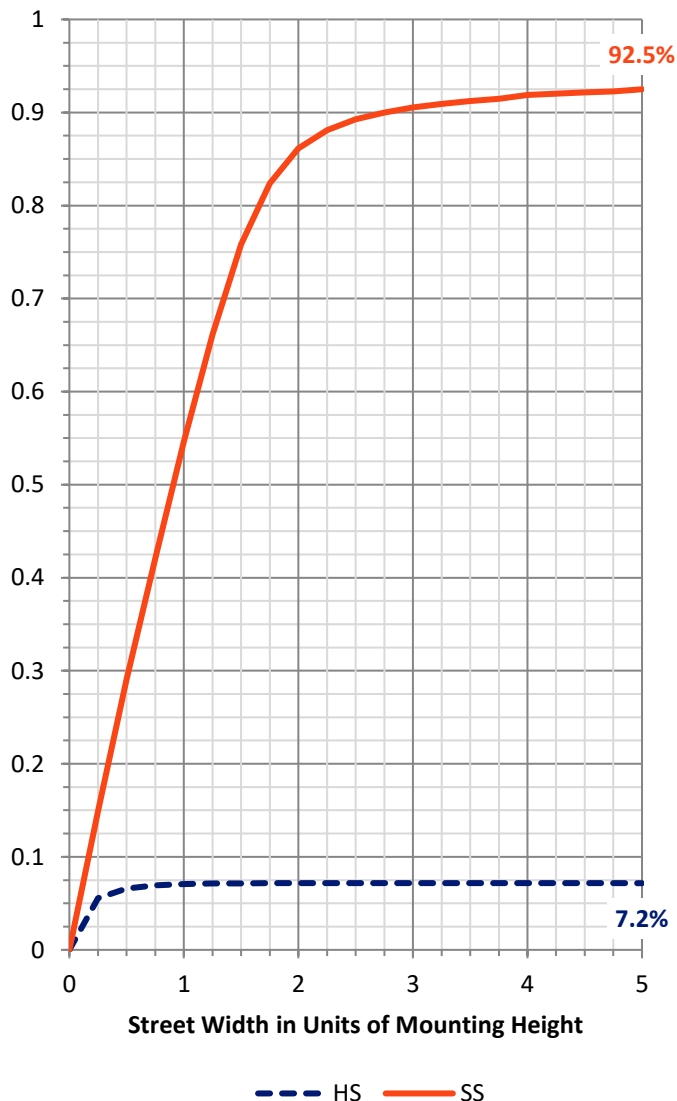
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	685.4	0.0	685.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8812.0	0.0	8812.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	9497.4	0.0	9497.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	2.2
10°-20°	441.2	4.6
20°-30°	597.9	6.3
30°-40°	829.3	8.7
40°-50°	1322.6	13.9
50°-60°	2286.2	24.1
60°-70°	2611.6	27.5
70°-80°	1088.8	11.5
80°-90°	115.4	1.2
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°	9497.4	100.0
0°-180°	9497.4	100.0

Coefficient of Utilization



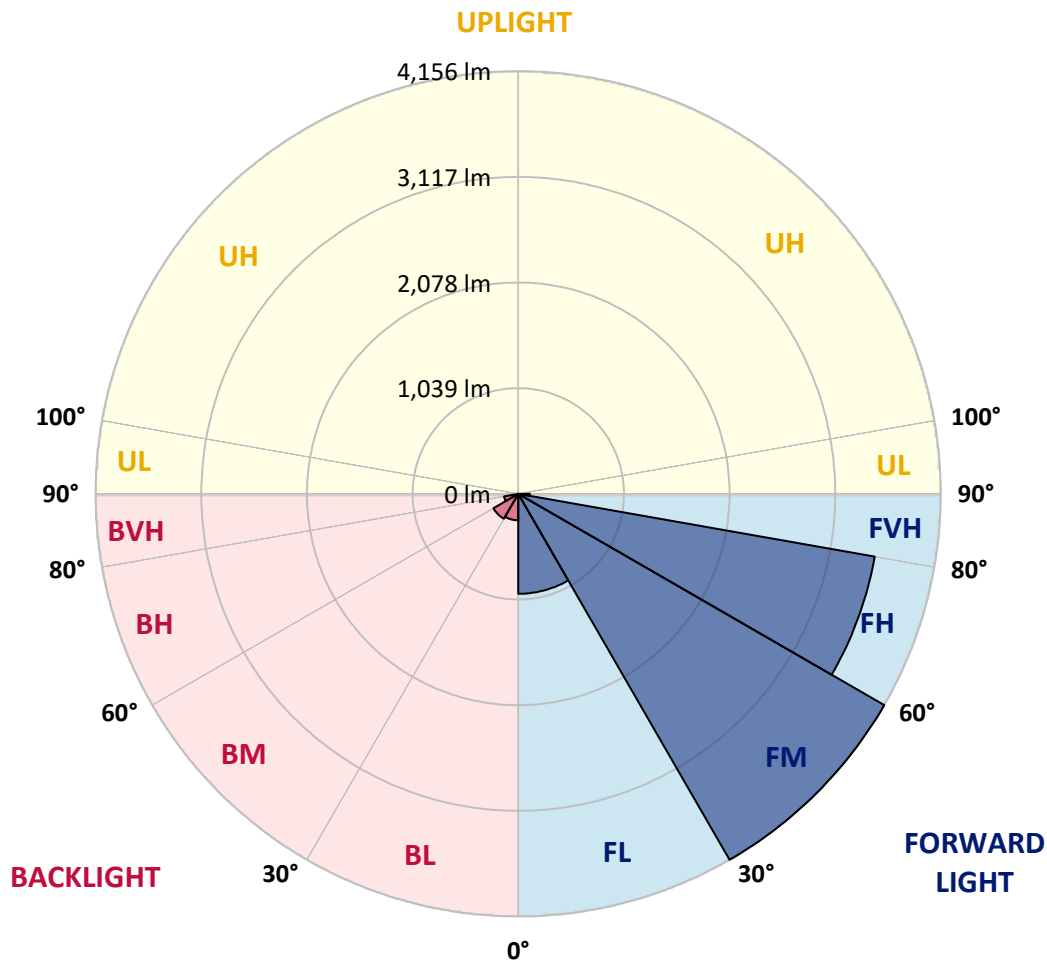
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	983.2	10.4			
FM (30°-60°)	4155.5	43.8			
FH (60°-80°)	3558.7	37.5			G2/5000
FVH (80°-90°)	114.6	1.2			G2/225
BL (0°-30°)	260.3	2.7	B1/500		
BM (30°-60°)	282.6	3.0	B1/1000		
BH (60°-80°)	141.7	1.5	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7
2.5°	2922.0	2926.4	2909.9	2896.6	2862.3	2825.5	2776.6	2750.6	2706.2	2629.4	2544.4
5°	2990.5	2996.2	2993.7	2990.5	2977.1	2941.6	2879.4	2856.6	2791.2	2666.2	2512.6
7.5°	2838.2	2859.1	2861.7	2886.4	2909.9	2913.1	2889.6	2872.4	2812.1	2665.5	2456.1
10°	2636.4	2650.3	2670.6	2699.2	2755.7	2802.6	2825.5	2823.0	2788.0	2645.9	2390.1
12.5°	2432.6	2440.2	2471.4	2520.2	2589.4	2669.3	2730.3	2742.3	2743.0	2622.4	2334.9
15°	2257.5	2254.3	2278.4	2334.9	2432.0	2532.3	2641.4	2660.5	2690.9	2599.5	2283.5
17.5°	2107.7	2124.2	2128.0	2190.2	2279.7	2409.8	2548.7	2582.4	2643.3	2579.9	2240.9
20°	2015.0	2024.0	2032.2	2067.1	2147.7	2284.7	2461.9	2508.2	2598.9	2562.1	2193.3
22.5°	1987.7	1993.4	1986.4	1997.3	2054.4	2176.3	2367.2	2428.8	2556.4	2545.6	2154.6
25°	2008.6	2014.4	1997.9	1985.2	2004.9	2088.0	2275.9	2350.8	2522.2	2542.4	2125.5
27.5°	2059.4	2070.2	2047.4	2024.5	2013.1	2040.4	2204.2	2291.1	2498.6	2557.6	2112.2
30°	2138.7	2145.1	2128.0	2100.1	2074.1	2046.7	2166.8	2249.8	2492.3	2593.2	2110.8
32.5°	2225.1	2238.4	2228.9	2210.5	2176.8	2112.2	2177.5	2251.1	2507.5	2644.6	2126.7
35°	2331.8	2347.0	2355.8	2352.0	2308.9	2228.3	2246.1	2308.2	2548.1	2739.1	2169.9
37.5°	2436.5	2449.7	2499.9	2517.0	2478.9	2402.8	2379.4	2420.6	2637.6	2862.9	2247.9
40°	2556.4	2574.1	2644.6	2710.0	2691.5	2611.6	2568.4	2602.7	2774.7	3049.6	2395.8
42.5°	2671.3	2703.0	2810.3	2925.8	2942.9	2853.4	2824.8	2836.3	2977.8	3318.0	2602.1
45°	2834.3	2864.2	3002.5	3159.3	3240.0	3170.1	3140.9	3139.0	3256.4	3695.6	2936.5
47.5°	3069.8	3096.5	3259.5	3414.5	3557.9	3567.4	3512.2	3531.2	3606.7	4137.3	3346.5
50°	3358.6	3421.4	3528.7	3689.9	3881.6	4036.4	4053.5	4028.1	4092.9	4648.9	3839.0
52.5°	3778.1	3802.2	3900.6	4033.3	4257.9	4520.6	4724.4	4689.5	4669.1	5136.2	4336.6
55°	4091.0	4123.3	4276.3	4458.5	4787.8	5134.4	5576.1	5588.1	5331.8	5604.7	4823.4
57.5°	3996.4	4046.0	4277.6	4643.7	5367.9	6001.3	6330.0	6338.3	5944.8	6059.7	5373.0
60°	3510.9	3534.4	3866.3	4355.0	5417.4	6940.6	7399.5	7332.8	6568.7	6568.7	5858.5
62.5°	2489.8	2526.5	2795.7	3514.7	4892.5	7266.8	8680.2	8542.5	7428.0	7055.5	6147.9
65°	1591.1	1555.5	1733.9	2218.7	3644.8	6785.1	9795.3	9803.5	8236.6	7250.3	5989.9
67°	1152.5	1138.5	1190.0	1516.8	2471.4	5703.7	9818.8	10253.5	8701.2	7127.1	5484.7
67.5°	1054.2	1065.0	1102.4	1368.3	2245.4	5190.2	9712.1	10226.8	8805.9	7053.0	5301.9
70°	799.0	780.6	821.2	967.8	1346.1	3274.2	8354.6	9379.6	8675.8	6316.1	4236.3
72.5°	587.7	585.8	642.3	791.4	1036.4	1744.1	6271.7	7520.6	7087.9	4809.4	2667.5
75°	396.7	414.4	504.5	661.3	939.3	1131.0	4275.6	5456.2	4920.5	2730.9	1090.4
77.5°	226.0	227.2	325.0	531.2	843.4	910.1	2533.5	3476.0	2604.7	908.2	323.7
80°	97.7	107.2	161.2	385.9	699.4	806.0	1452.7	1910.3	1053.5	192.3	104.7
82.5°	36.2	42.6	71.1	237.3	510.2	663.9	877.8	912.0	357.3	67.9	65.3
85°	0.0	1.3	26.0	111.1	265.9	296.4	586.4	540.8	158.0	32.4	42.6
87.5°	0.0	0.0	0.0	11.4	34.9	110.4	182.2	203.1	38.1	11.4	10.2
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°	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7	2517.7
2.5°	2498.6	2457.4	2354.0	2250.5	2173.7	2109.6	2013.1	1960.5	1932.5	1891.2	1893.8
5°	2435.8	2352.0	2169.9	1981.4	1829.1	1680.6	1502.9	1431.1	1370.8	1336.6	1313.7
7.5°	2342.5	2218.7	1949.0	1697.7	1463.5	1204.0	1009.1	879.0	791.4	759.1	728.0
10°	2240.3	2075.9	1725.0	1376.5	1051.6	783.8	618.8	499.5	456.9	417.6	421.4
12.5°	2145.7	1945.8	1519.4	1086.5	736.8	498.2	388.4	339.5	325.6	321.1	321.1
15°	2068.4	1821.4	1298.5	816.8	505.2	357.9	311.0	297.6	292.6	291.3	291.3
17.5°	1985.9	1703.4	1099.2	603.6	367.4	299.6	283.7	274.8	272.9	271.6	271.6
20°	1912.2	1584.7	910.1	449.3	297.0	269.7	259.5	253.9	252.0	250.7	251.3
22.5°	1842.4	1479.4	732.4	339.5	261.5	245.6	235.5	229.8	226.0	222.8	223.4
25°	1780.2	1377.8	589.0	278.0	235.5	221.5	211.3	203.1	194.9	191.0	190.4
27.5°	1736.4	1289.0	458.8	238.0	212.0	196.7	184.0	173.9	163.1	157.4	156.1
30°	1700.2	1198.8	363.1	210.1	188.5	173.9	158.0	143.4	132.0	126.3	123.8
32.5°	1676.8	1113.1	286.2	187.2	168.8	151.0	133.3	118.7	106.0	100.2	99.0
35°	1672.9	1041.5	234.2	168.2	151.0	132.0	113.6	97.7	87.0	81.2	80.0
37.5°	1700.2	986.2	196.1	153.0	136.4	115.5	95.2	80.6	71.1	66.6	66.0
40°	1773.2	951.3	170.1	140.3	123.1	100.2	81.2	68.5	59.0	54.6	54.6
42.5°	1912.2	952.6	153.0	128.2	109.8	85.7	69.2	57.1	48.9	45.1	43.8
45°	2129.2	995.7	138.3	116.1	97.1	74.3	59.0	46.9	38.7	35.6	35.6
47.5°	2420.0	1081.4	125.6	104.1	85.7	63.5	50.1	38.1	31.1	27.9	27.9
50°	2800.1	1219.2	114.9	93.9	76.2	54.6	40.6	31.1	24.1	21.6	20.9
52.5°	3197.4	1389.2	102.2	85.0	65.3	46.3	33.0	24.1	18.4	16.5	15.9
55°	3636.0	1555.5	90.2	76.2	53.3	38.7	26.0	19.0	13.3	11.4	11.4
57.5°	4078.3	1718.7	75.5	63.5	41.9	28.6	20.3	14.0	8.9	7.0	7.0
60°	4452.8	1771.3	64.1	51.4	31.7	20.3	14.6	8.9	5.0	3.2	3.2
62.5°	4504.1	1593.6	53.9	39.4	22.9	14.0	7.7	5.0	1.9	1.3	1.3
65°	4224.9	1294.7	45.1	29.9	15.2	7.0	3.2	1.9	0.7	0.0	0.0
67°	3785.7	1049.7	36.8	22.2	10.8	4.5	1.9	0.7	0.0	0.0	0.0
67.5°	3673.4	1000.9	35.6	20.9	9.5	3.8	1.3	0.7	0.0	0.0	0.0
70°	2882.6	749.5	25.4	12.7	5.7	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	1791.7	423.9	18.4	7.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0
75°	677.2	148.5	12.7	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	210.7	56.5	7.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	71.1	21.6	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.8	8.9	3.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.2	3.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)