

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: P647825

Luminaire Tested: **GALN-SA3A-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647825
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-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 8842.4 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

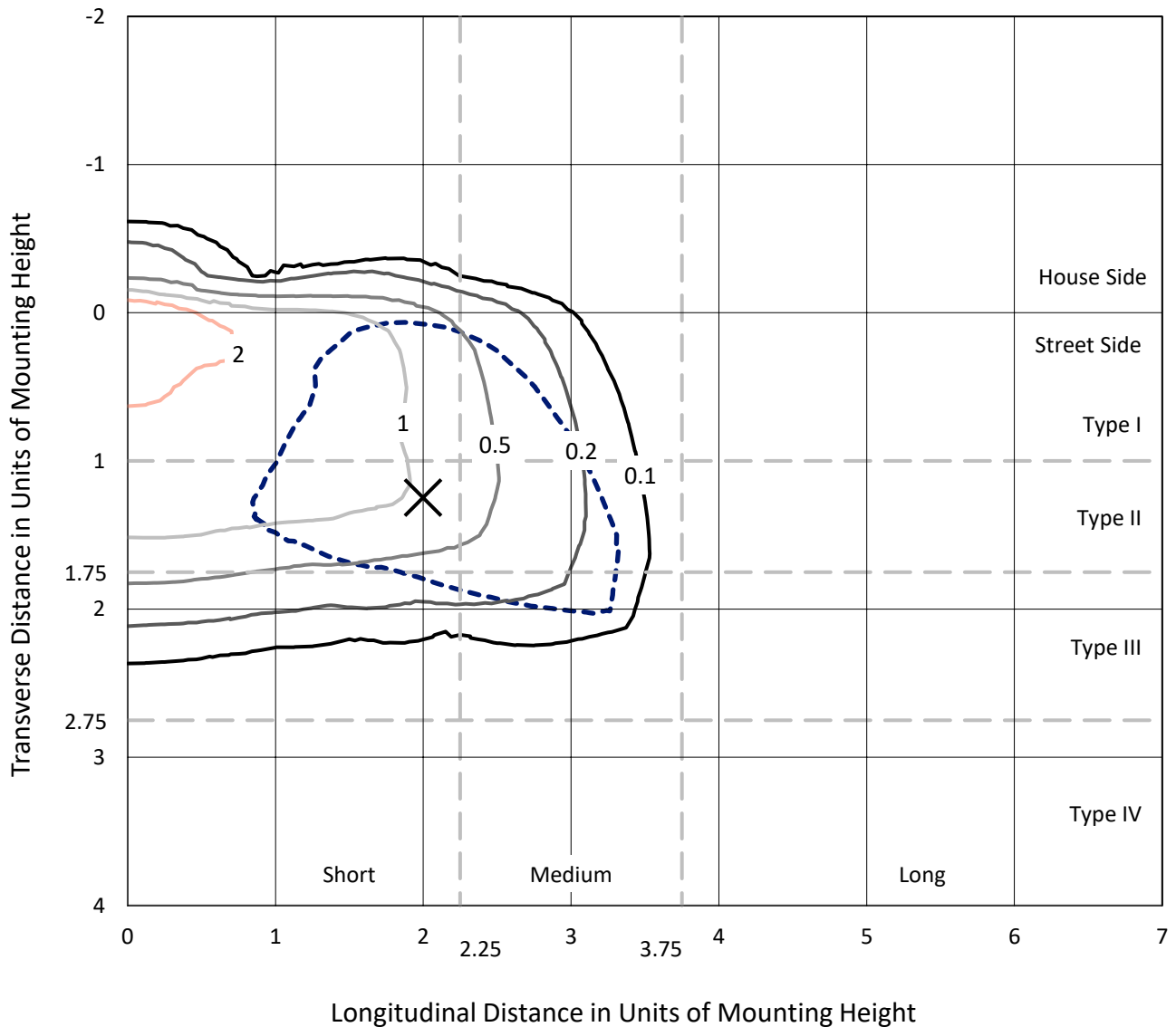
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

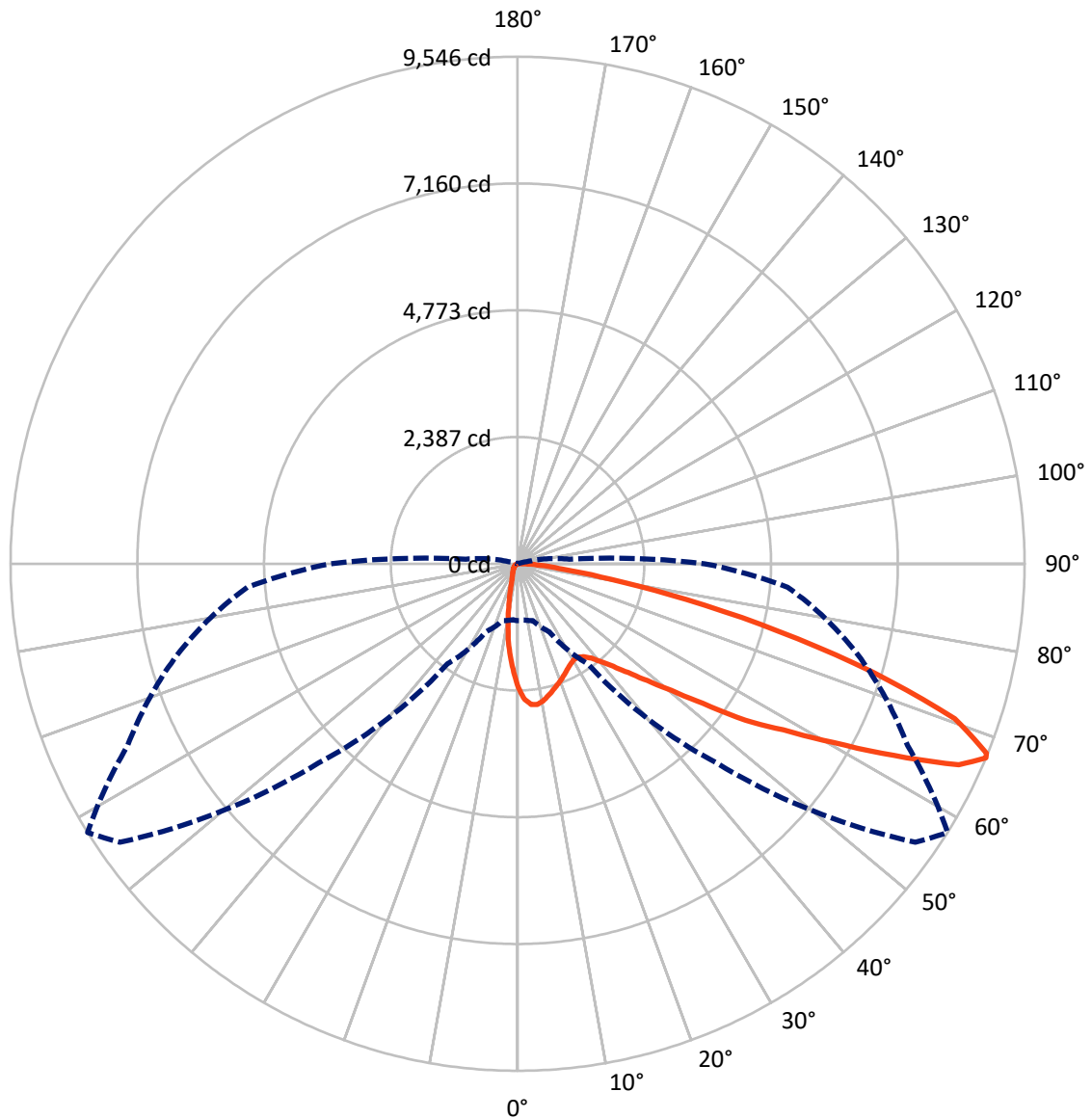
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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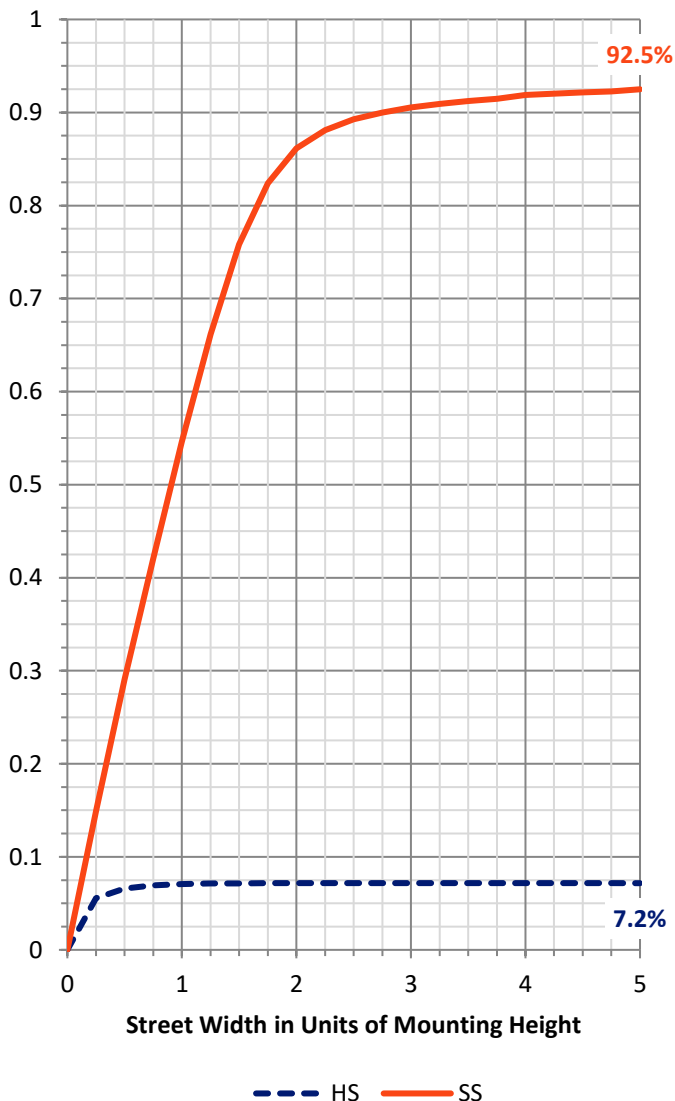
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	638.1	0.0	638.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	8204.3	0.0	8204.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	8842.4	0.0	8842.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.2	2.2
10°-20°	410.8	4.6
20°-30°	556.7	6.3
30°-40°	772.1	8.7
40°-50°	1231.4	13.9
50°-60°	2128.6	24.1
60°-70°	2431.5	27.5
70°-80°	1013.7	11.5
80°-90°	107.5	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°	8842.4	100.0
0°-180°	8842.4	100.0

Coefficient of Utilization

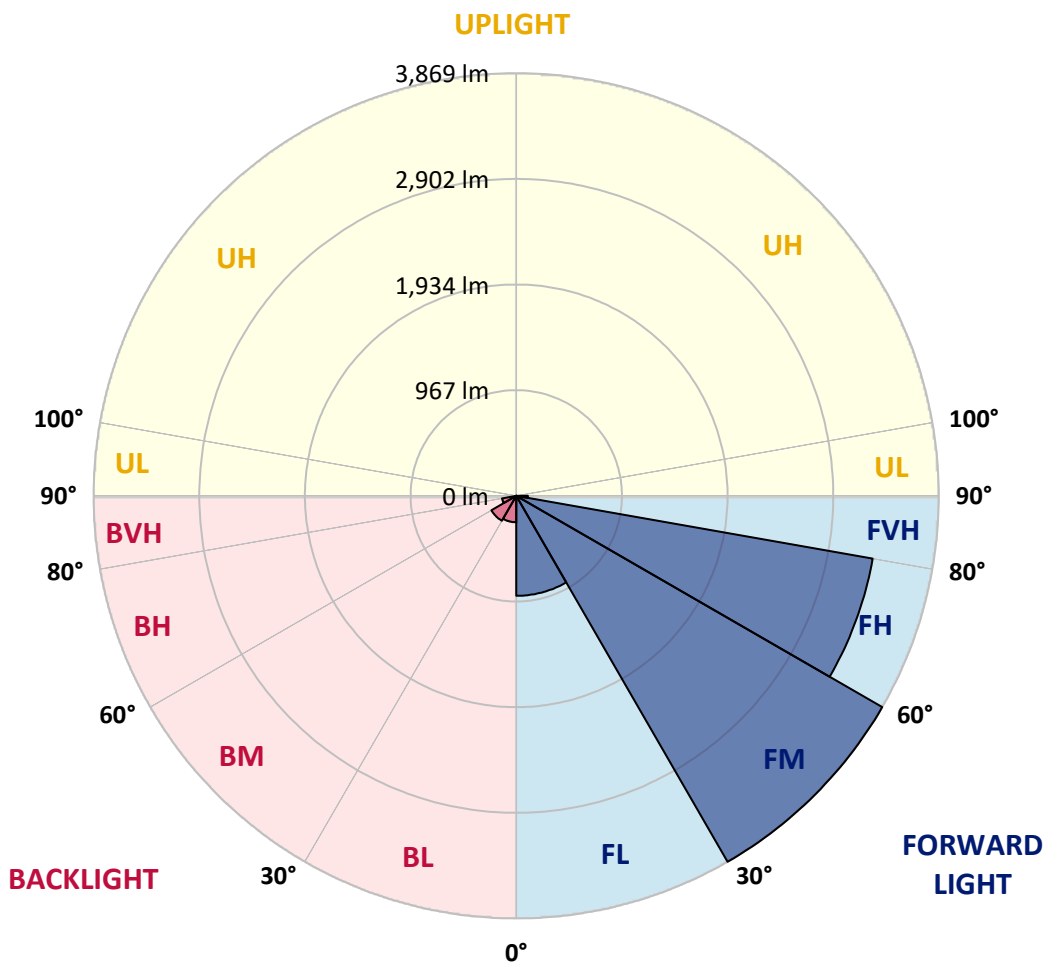


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.4	10.4			
FM (30°-60°)	3868.9	43.8			
FH (60°-80°)	3313.3	37.5			G2/5000
FVH (80°-90°)	106.7	1.2			G2/225
BL (0°-30°)	242.3	2.7	B1/500		
BM (30°-60°)	263.1	3.0	B1/1000		
BH (60°-80°)	131.9	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°	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1
2.5°	2720.5	2724.6	2709.2	2696.8	2664.9	2630.6	2585.2	2560.9	2519.5	2448.0	2368.9
5°	2784.3	2789.6	2787.2	2784.3	2771.8	2738.8	2680.8	2659.6	2598.7	2482.3	2339.3
7.5°	2642.5	2662.0	2664.3	2687.3	2709.2	2712.2	2690.3	2674.3	2618.2	2481.7	2286.8
10°	2454.5	2467.5	2486.4	2513.0	2565.7	2609.3	2630.6	2628.3	2595.7	2463.4	2225.3
12.5°	2264.8	2272.0	2300.9	2346.4	2410.8	2485.2	2542.0	2553.2	2553.8	2441.6	2173.8
15°	2101.8	2098.8	2121.3	2173.8	2264.3	2357.6	2459.2	2477.0	2505.4	2420.3	2126.0
17.5°	1962.4	1977.7	1981.2	2039.2	2122.5	2243.6	2373.0	2404.3	2461.0	2401.9	2086.4
20°	1876.1	1884.4	1892.0	1924.5	1999.5	2127.2	2292.1	2335.2	2419.7	2385.4	2042.1
22.5°	1850.6	1855.9	1849.4	1859.5	1912.7	2026.2	2204.0	2261.3	2380.1	2370.1	2006.0
25°	1870.1	1875.4	1860.1	1848.3	1866.6	1944.0	2119.0	2188.6	2348.2	2367.1	1978.9
27.5°	1917.4	1927.4	1906.2	1884.9	1874.3	1899.7	2052.2	2133.1	2326.3	2381.3	1966.5
30°	1991.2	1997.2	1981.2	1955.2	1931.0	1905.6	2017.3	2094.7	2320.4	2414.4	1965.3
32.5°	2071.7	2084.0	2075.2	2058.0	2026.7	1966.5	2027.3	2095.9	2334.6	2462.2	1980.1
35°	2170.9	2185.1	2193.3	2189.8	2149.6	2074.6	2091.2	2149.0	2372.4	2550.2	2020.2
37.5°	2268.4	2280.8	2327.5	2343.4	2308.0	2237.1	2215.3	2253.6	2455.7	2665.5	2092.9
40°	2380.1	2396.6	2462.2	2523.1	2505.9	2431.5	2391.3	2423.2	2583.4	2839.2	2230.6
42.5°	2487.0	2516.6	2616.5	2724.0	2740.0	2656.6	2630.0	2640.7	2772.4	3089.2	2422.6
45°	2638.9	2666.7	2795.5	2941.4	3016.5	2951.4	2924.3	2922.5	3031.9	3440.7	2734.0
47.5°	2858.1	2882.9	3034.8	3179.0	3312.5	3321.4	3270.0	3287.7	3358.0	3852.0	3115.7
50°	3127.0	3185.5	3285.3	3435.4	3613.9	3758.0	3774.0	3750.3	3810.6	4328.3	3574.2
52.5°	3517.5	3540.0	3631.6	3755.1	3964.3	4208.9	4398.6	4366.1	4347.1	4782.0	4037.5
55°	3808.8	3839.0	3981.4	4151.0	4457.6	4780.3	5191.5	5202.7	4964.1	5218.1	4490.7
57.5°	3720.8	3766.9	3982.6	4323.5	4997.7	5587.4	5893.5	5901.2	5534.8	5641.7	5002.4
60°	3268.8	3290.6	3599.7	4054.7	5043.8	6461.9	6889.1	6827.1	6115.7	6115.7	5454.5
62.5°	2318.1	2352.3	2602.8	3272.3	4555.1	6765.7	8081.6	7953.3	6915.7	6568.9	5723.9
65°	1481.4	1448.2	1614.3	2065.7	3393.4	6317.2	9119.8	9127.4	7668.5	6750.2	5576.8
67°	1073.0	1060.0	1107.9	1412.2	2300.9	5310.3	9141.6	9546.3	8101.1	6635.6	5106.4
67.5°	981.5	991.5	1026.4	1273.9	2090.5	4832.3	9042.3	9521.5	8198.6	6566.6	4936.3
70°	743.9	726.8	764.6	901.1	1253.3	3048.4	7778.4	8732.7	8077.4	5880.5	3944.1
72.5°	547.2	545.4	598.0	736.8	964.9	1623.8	5839.1	7002.0	6599.0	4477.7	2483.5
75°	369.3	385.9	469.7	615.7	874.5	1053.0	3980.8	5079.9	4581.2	2542.6	1015.2
77.5°	210.4	211.6	302.6	494.5	785.3	847.4	2358.8	3236.3	2425.0	845.6	301.4
80°	91.0	99.8	150.1	359.2	651.1	750.4	1352.6	1778.6	980.9	179.1	97.5
82.5°	33.7	39.6	66.2	221.0	475.0	618.1	817.2	849.1	332.7	63.2	60.8
85°	0.0	1.2	24.2	103.4	247.6	275.9	546.0	503.5	147.1	30.1	39.6
87.5°	0.0	0.0	0.0	10.6	32.5	102.8	169.6	189.1	35.5	10.6	9.5
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°	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1	2344.1
2.5°	2326.3	2287.9	2191.6	2095.3	2023.8	1964.1	1874.3	1825.3	1799.3	1760.8	1763.2
5°	2267.8	2189.8	2020.2	1844.7	1702.9	1564.7	1399.2	1332.4	1276.3	1244.4	1223.1
7.5°	2181.0	2065.7	1814.6	1580.6	1362.6	1120.9	939.5	818.4	736.8	706.7	677.8
10°	2085.8	1932.8	1606.0	1281.6	979.1	729.8	576.1	465.0	425.4	388.8	392.4
12.5°	1997.7	1811.6	1414.6	1011.6	686.0	463.8	361.6	316.1	303.1	298.9	298.9
15°	1925.7	1695.8	1209.0	760.4	470.3	333.2	289.6	277.1	272.4	271.2	271.2
17.5°	1848.9	1586.0	1023.4	562.0	342.1	278.9	264.1	255.9	254.1	252.9	252.9
20°	1780.3	1475.4	847.4	418.4	276.6	251.1	241.6	236.4	234.6	233.4	234.0
22.5°	1715.3	1377.4	681.9	316.1	243.4	228.6	219.2	213.9	210.4	207.4	208.0
25°	1657.5	1282.8	548.3	258.8	219.2	206.2	196.8	189.1	181.4	177.8	177.3
27.5°	1616.7	1200.1	427.2	221.6	197.4	183.1	171.3	161.9	151.8	146.6	145.3
30°	1583.0	1116.2	338.0	195.6	175.5	161.9	147.1	133.5	122.9	117.6	115.3
32.5°	1561.1	1036.4	266.5	174.3	157.1	140.6	124.1	110.5	98.7	93.3	92.2
35°	1557.5	969.7	218.1	156.6	140.6	122.9	105.8	91.0	81.0	75.6	74.5
37.5°	1583.0	918.2	182.6	142.4	127.0	107.5	88.6	75.0	66.2	62.0	61.5
40°	1651.0	885.7	158.3	130.6	114.6	93.3	75.6	63.8	55.0	50.8	50.8
42.5°	1780.3	886.9	142.4	119.3	102.3	79.8	64.4	53.2	45.5	42.0	40.8
45°	1982.4	927.1	128.8	108.1	90.4	69.1	55.0	43.7	36.0	33.1	33.1
47.5°	2253.1	1006.9	117.0	96.9	79.8	59.1	46.7	35.5	29.0	26.0	26.0
50°	2607.0	1135.1	107.0	87.5	70.9	50.8	37.8	29.0	22.5	20.1	19.5
52.5°	2976.9	1293.4	95.1	79.2	60.8	43.1	30.7	22.5	17.1	15.3	14.8
55°	3385.2	1448.2	83.9	70.9	49.6	36.0	24.2	17.7	12.4	10.6	10.6
57.5°	3797.0	1600.1	70.3	59.1	39.0	26.6	18.9	13.0	8.3	6.5	6.5
60°	4145.7	1649.2	59.7	47.8	29.5	18.9	13.6	8.3	4.7	3.0	3.0
62.5°	4193.5	1483.7	50.2	36.6	21.3	13.0	7.1	4.7	1.8	1.2	1.2
65°	3933.6	1205.4	42.0	27.8	14.2	6.5	3.0	1.8	0.6	0.0	0.0
67°	3524.6	977.3	34.3	20.7	10.0	4.1	1.8	0.6	0.0	0.0	0.0
67.5°	3420.1	931.8	33.1	19.5	8.8	3.5	1.2	0.6	0.0	0.0	0.0
70°	2683.8	697.8	23.6	11.8	5.3	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	1668.1	394.7	17.1	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	630.5	138.3	11.8	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	196.1	52.6	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.2	20.1	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.8	8.3	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.4	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.2	0.6	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)