

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: P648123

Luminaire Tested: **GALN-SA8A-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21228.7 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

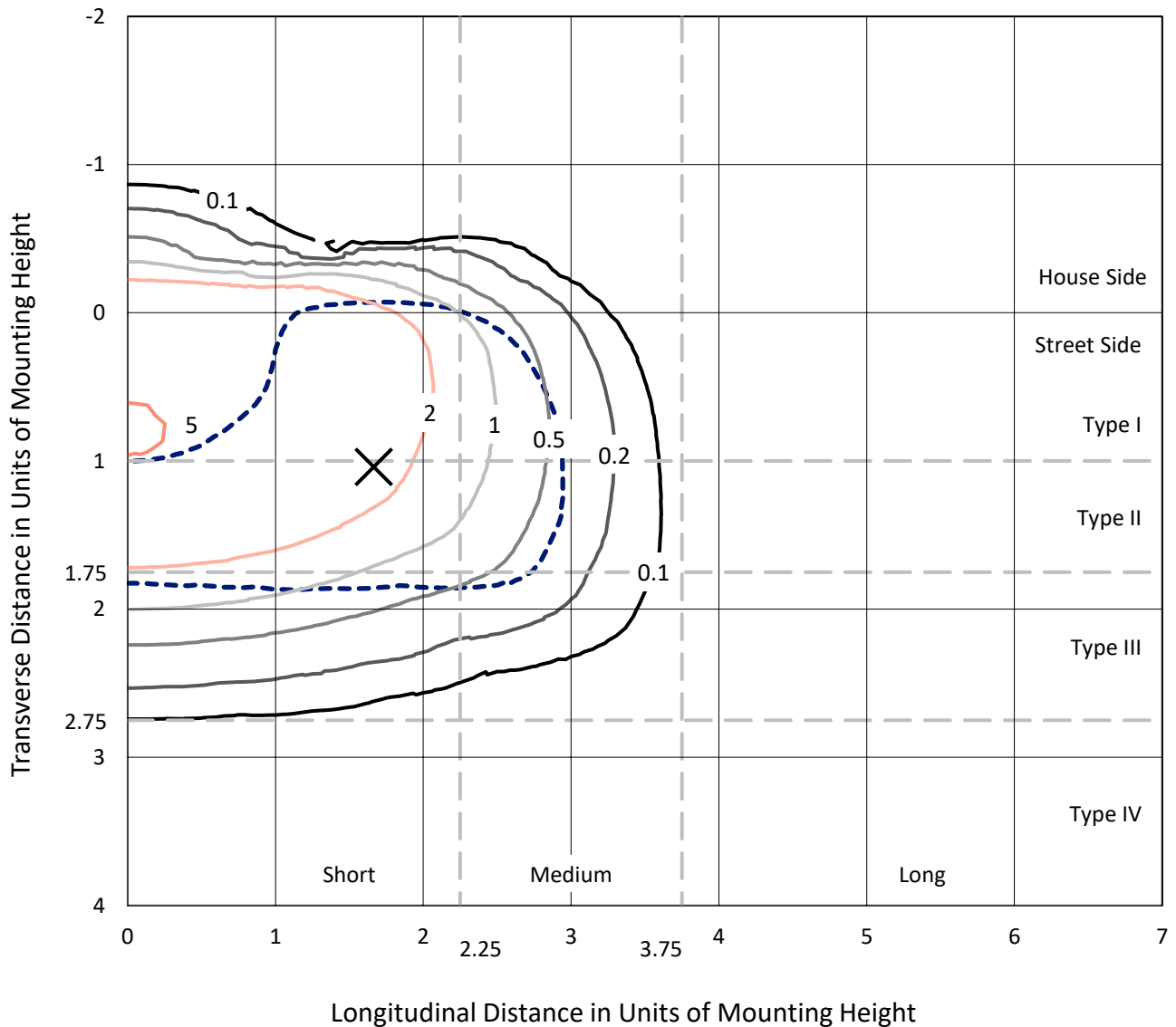
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

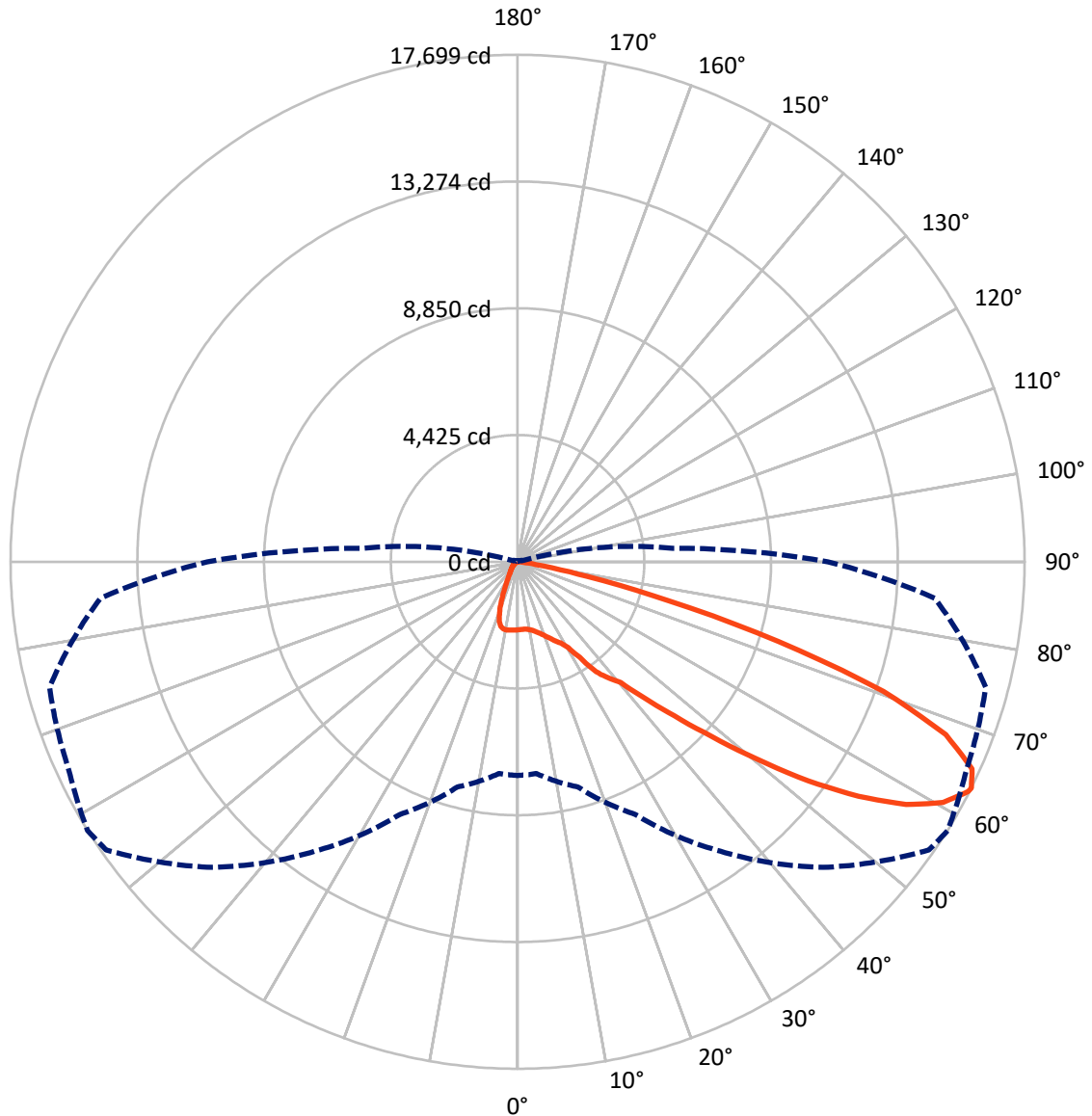
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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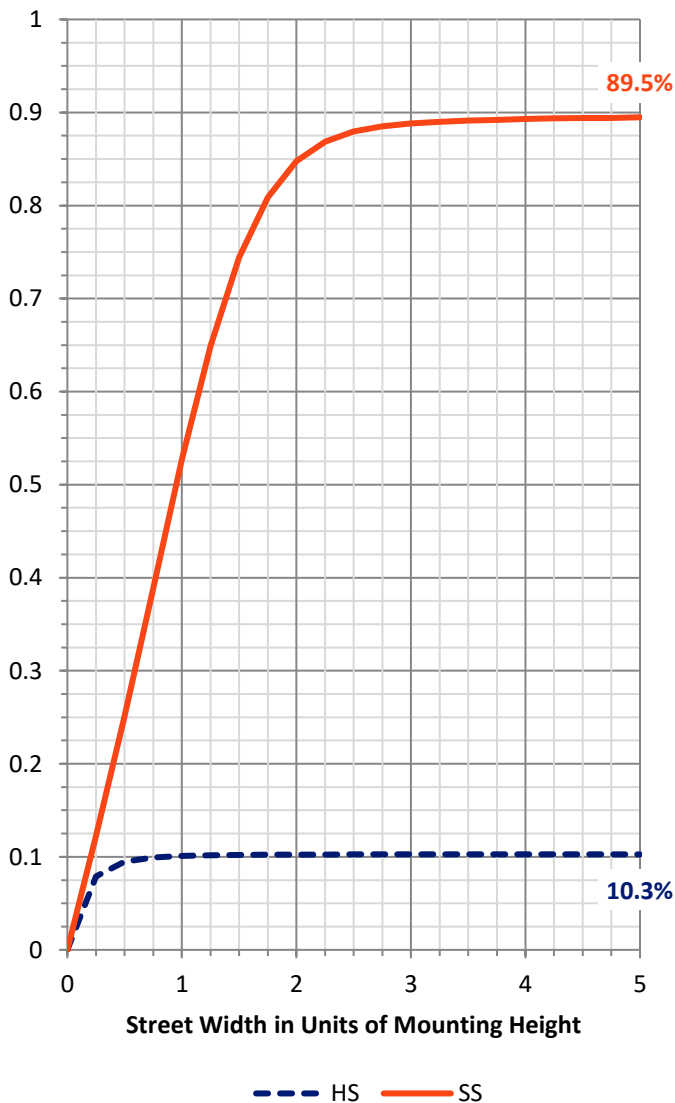
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.1	0.0	2198.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	19030.6	0.0	19030.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	21228.7	0.0	21228.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.0
10°-20°	606.0	2.9
20°-30°	1051.7	5.0
30°-40°	1932.6	9.1
40°-50°	3638.1	17.1
50°-60°	6222.6	29.3
60°-70°	5958.2	28.1
70°-80°	1519.4	7.2
80°-90°	77.7	0.4
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°	21228.7	100.0
0°-180°	21228.7	100.0



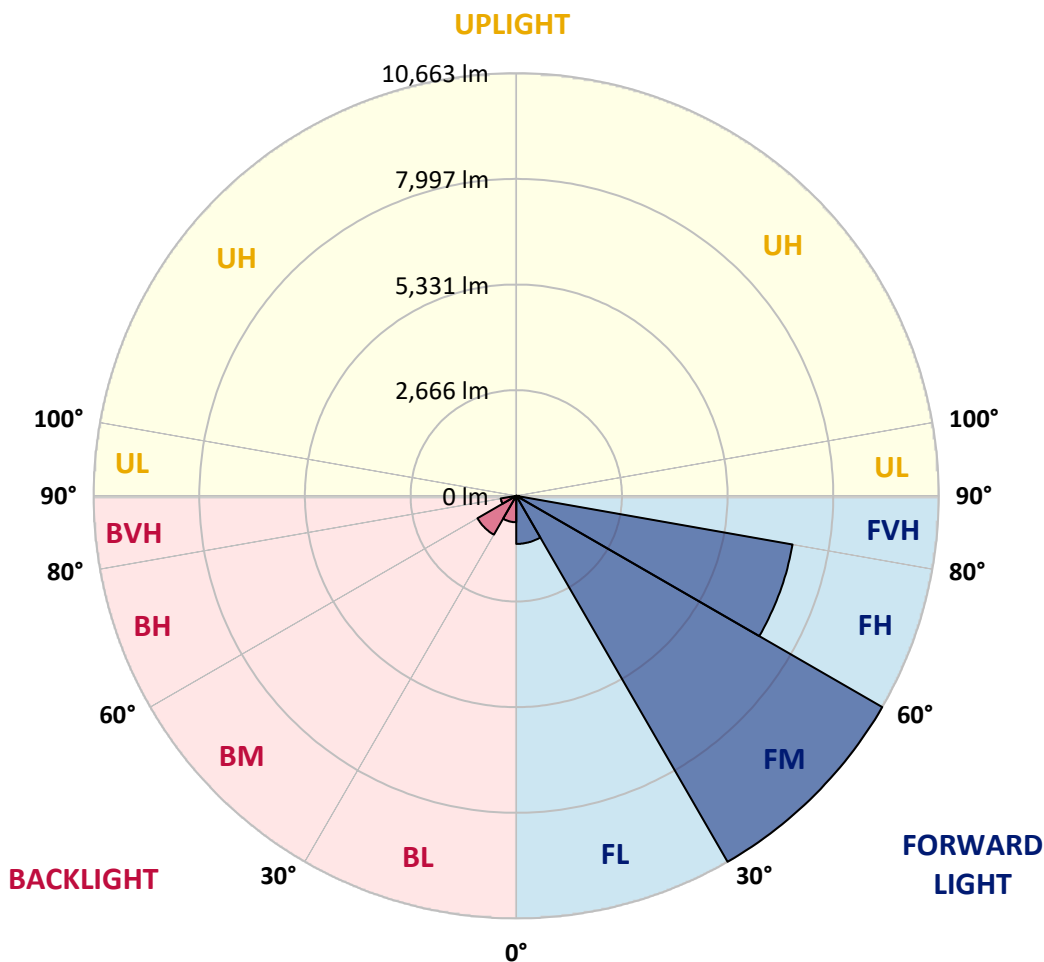
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.5	5.7			
FM (30°-60°)	10662.8	50.2			
FH (60°-80°)	7079.7	33.3			G3/7500
FVH (80°-90°)	74.7	0.4			G1/100
BL (0°-30°)	666.6	3.1	B2/1000		
BM (30°-60°)	1130.6	5.3	B2/2500		
BH (60°-80°)	397.9	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6
2.5°	2317.5	2325.5	2333.5	2336.7	2347.9	2359.0	2367.0	2365.4	2378.2	2384.6	2384.6
5°	2224.8	2224.8	2245.6	2264.7	2296.7	2328.7	2359.0	2365.4	2389.4	2411.8	2419.8
7.5°	2146.5	2151.3	2167.3	2202.4	2245.6	2301.6	2362.2	2376.6	2418.2	2467.7	2488.5
10°	2109.7	2112.9	2133.7	2170.5	2224.8	2301.6	2386.2	2413.4	2477.3	2555.6	2584.4
12.5°	2101.7	2106.5	2127.3	2168.8	2231.2	2323.9	2439.0	2467.7	2560.4	2661.1	2704.2
15°	2116.1	2119.3	2140.1	2184.8	2253.6	2363.9	2509.3	2549.2	2659.5	2776.2	2832.1
17.5°	2167.3	2164.1	2178.5	2215.2	2291.9	2413.4	2594.0	2641.9	2771.4	2931.2	2968.0
20°	2384.6	2363.9	2351.0	2319.1	2349.5	2483.8	2696.3	2766.7	2926.5	3089.5	3115.0
22.5°	2852.9	2806.6	2715.4	2590.8	2494.9	2579.6	2819.3	2900.9	3107.0	3266.9	3266.9
25°	3449.1	3389.9	3298.9	3027.2	2792.2	2737.8	2958.4	3060.7	3303.6	3465.1	3412.3
27.5°	4195.5	4149.1	3971.7	3655.3	3295.6	3014.3	3119.9	3214.1	3477.9	3672.8	3562.6
30°	4802.8	4780.4	4635.0	4352.1	3955.7	3545.0	3420.3	3482.6	3709.6	3935.0	3821.5
32.5°	5315.9	5315.9	5167.3	4903.5	4532.7	4168.3	3930.2	3974.9	4192.3	4452.8	4241.8
35°	5880.0	5860.9	5741.0	5490.1	5074.5	4753.3	4655.8	4716.5	4913.1	5106.5	4587.0
37.5°	6473.0	6466.6	6342.0	6099.0	5760.2	5355.8	5127.2	5143.2	5243.9	5362.2	4991.4
40°	7117.2	7126.7	6963.7	6813.4	6493.8	6079.8	5641.9	5541.2	5635.5	5969.6	5737.8
42.5°	7877.9	7855.5	7785.2	7580.6	7323.3	7075.6	6549.7	6513.0	6596.1	6954.1	6703.2
45°	8761.8	8793.7	8672.3	8558.7	8386.2	8180.0	7740.4	7676.5	7767.6	8323.8	7967.4
47.5°	9647.2	9616.8	9695.1	9674.4	9767.1	9613.6	9225.2	9094.2	9313.2	9840.6	9316.4
50°	10321.7	10355.3	10518.3	10756.4	11154.4	11240.7	10868.3	10823.5	10921.0	11259.9	10523.1
52.5°	10759.6	10871.5	11127.2	11739.4	12457.0	13014.7	12731.9	12707.9	12667.9	12759.1	11677.0
55°	11045.7	11159.2	11493.2	12394.7	13630.1	14536.3	14550.7	14448.4	14184.7	14119.1	12755.9
57.5°	10869.8	10892.2	11368.5	12573.6	14280.6	15621.6	16091.4	15989.2	15501.7	15253.9	13708.4
60°	9770.3	9816.6	10479.9	11896.0	13997.7	15976.3	17112.7	17066.3	16532.6	16252.9	14450.0
62.5°	7821.9	7956.2	8638.7	10217.8	12682.3	15378.6	17526.7	17657.7	17242.2	16857.0	14683.4
63°	7463.9	7420.8	8141.6	9728.7	12333.9	15082.9	17533.1	17699.3	17274.2	16914.5	14619.4
65°	5525.2	5654.7	6123.0	7671.8	10264.1	13706.8	17138.3	17432.4	17155.8	16660.4	13911.4
67.5°	3102.2	3095.8	3613.7	5020.2	7184.3	10751.6	15496.9	16118.6	16061.1	14950.3	11531.6
70°	1518.4	1542.4	1754.9	2602.0	4166.7	7417.6	12877.3	13548.6	13569.4	11742.5	7973.8
72.5°	687.2	698.4	850.3	1267.4	2141.7	3949.4	8873.7	9514.5	9396.2	7483.1	4403.3
75°	362.8	386.8	468.3	637.7	1032.5	1628.6	4826.8	5446.9	5199.2	3418.7	1620.7
77.5°	268.5	276.5	318.1	406.0	553.0	634.5	2082.5	2477.3	2320.7	1237.1	537.0
80°	196.6	203.0	236.5	287.7	348.4	322.8	784.7	899.8	807.1	420.3	164.6
82.5°	119.9	121.4	172.7	214.2	218.9	180.6	258.9	278.1	290.9	236.5	89.5
85°	43.1	54.3	116.7	155.0	129.4	91.1	108.7	119.9	131.1	150.3	52.8
87.5°	4.8	6.4	55.9	75.1	36.7	33.6	39.9	44.8	47.9	55.9	25.6
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°	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6	2376.6
2.5°	2391.0	2397.4	2392.6	2384.6	2383.1	2378.2	2368.7	2368.7	2368.7	2371.9	2368.7
5°	2426.2	2431.0	2419.8	2403.8	2386.2	2363.9	2339.8	2325.5	2323.9	2320.7	2312.7
7.5°	2493.3	2499.7	2474.1	2435.8	2387.8	2333.5	2282.4	2234.4	2212.0	2194.4	2194.4
10°	2590.8	2597.2	2546.1	2477.3	2381.4	2271.2	2149.6	2039.4	1953.1	1913.1	1903.6
12.5°	2707.5	2710.7	2625.9	2506.1	2347.9	2135.3	1876.4	1635.1	1467.2	1390.5	1382.5
15°	2835.3	2812.9	2701.1	2517.3	2252.0	1855.6	1408.1	1112.4	938.2	887.1	906.2
17.5°	2964.8	2923.3	2758.6	2499.7	2036.2	1408.1	946.2	759.2	704.9	690.4	690.4
20°	3086.3	3028.7	2800.2	2423.0	1662.2	970.1	701.6	656.9	647.3	637.7	639.3
22.5°	3207.7	3119.9	2837.0	2252.0	1238.6	693.7	628.1	613.7	601.0	588.2	586.5
25°	3326.0	3204.5	2851.3	1935.5	843.9	596.2	573.8	554.6	529.0	514.7	511.5
27.5°	3449.1	3306.8	2841.7	1535.9	615.4	533.8	511.5	484.3	453.9	428.3	428.3
30°	3685.7	3501.8	2808.2	1104.4	517.9	469.9	441.1	398.0	364.4	338.8	337.2
32.5°	4008.5	3756.0	2693.1	776.7	460.3	414.0	370.8	322.8	287.7	268.5	268.5
35°	4296.2	4011.7	2477.3	572.2	414.0	359.6	306.9	260.5	233.3	220.6	215.8
37.5°	4734.1	4385.7	2180.0	465.1	369.2	311.6	257.3	214.2	191.8	182.2	182.2
40°	5391.0	4842.8	1815.6	407.6	326.0	265.3	214.2	180.6	163.0	151.8	151.8
42.5°	6206.1	5402.2	1446.4	366.0	286.1	228.6	179.0	153.5	137.4	129.4	127.9
45°	7232.2	5991.9	1114.0	327.6	254.2	195.0	151.8	129.4	113.5	108.7	110.2
47.5°	8303.0	6511.3	863.1	294.1	220.6	164.6	129.4	111.9	100.7	94.3	94.3
50°	9217.2	6869.4	655.3	255.7	195.0	139.1	113.5	100.7	91.1	87.9	86.3
52.5°	9981.2	6973.2	501.8	222.1	171.0	119.9	100.7	91.1	83.1	78.3	78.3
55°	10631.7	6882.2	393.1	187.0	143.8	103.9	89.5	81.5	72.0	67.1	65.5
57.5°	11012.1	6589.6	300.4	155.0	116.7	86.3	78.3	68.7	57.6	49.6	49.6
60°	11203.9	6164.6	230.1	127.9	89.5	68.7	63.9	51.1	39.9	33.6	31.9
62.5°	10973.7	5600.3	174.2	100.7	67.1	51.1	43.1	36.7	25.6	19.2	19.2
63°	10831.5	5437.3	167.8	95.9	62.3	47.9	39.9	33.6	22.4	17.6	16.0
65°	9874.2	4726.1	137.4	76.7	49.6	33.6	27.2	24.0	16.0	8.0	6.4
67.5°	7841.1	3615.3	108.7	57.6	35.2	24.0	16.0	14.4	4.8	0.0	0.0
70°	5301.5	2335.1	84.7	41.6	24.0	14.4	8.0	6.4	1.6	0.0	0.0
72.5°	2765.0	1197.1	65.5	30.4	14.4	9.6	4.8	1.6	0.0	0.0	0.0
75°	978.1	407.6	47.9	19.2	9.6	4.8	1.6	0.0	0.0	0.0	0.0
77.5°	295.7	151.8	30.4	14.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	103.9	55.9	17.6	9.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	51.1	27.2	11.2	8.0	4.8	1.6	0.0	0.0	0.0	0.0	0.0
85°	28.7	17.6	9.6	8.0	4.8	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	12.8	9.6	8.0	6.4	3.2	1.6	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)