

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: P528098

Luminaire Tested: **GALN-SA3A-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528098
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-SA3A-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 9789 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

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

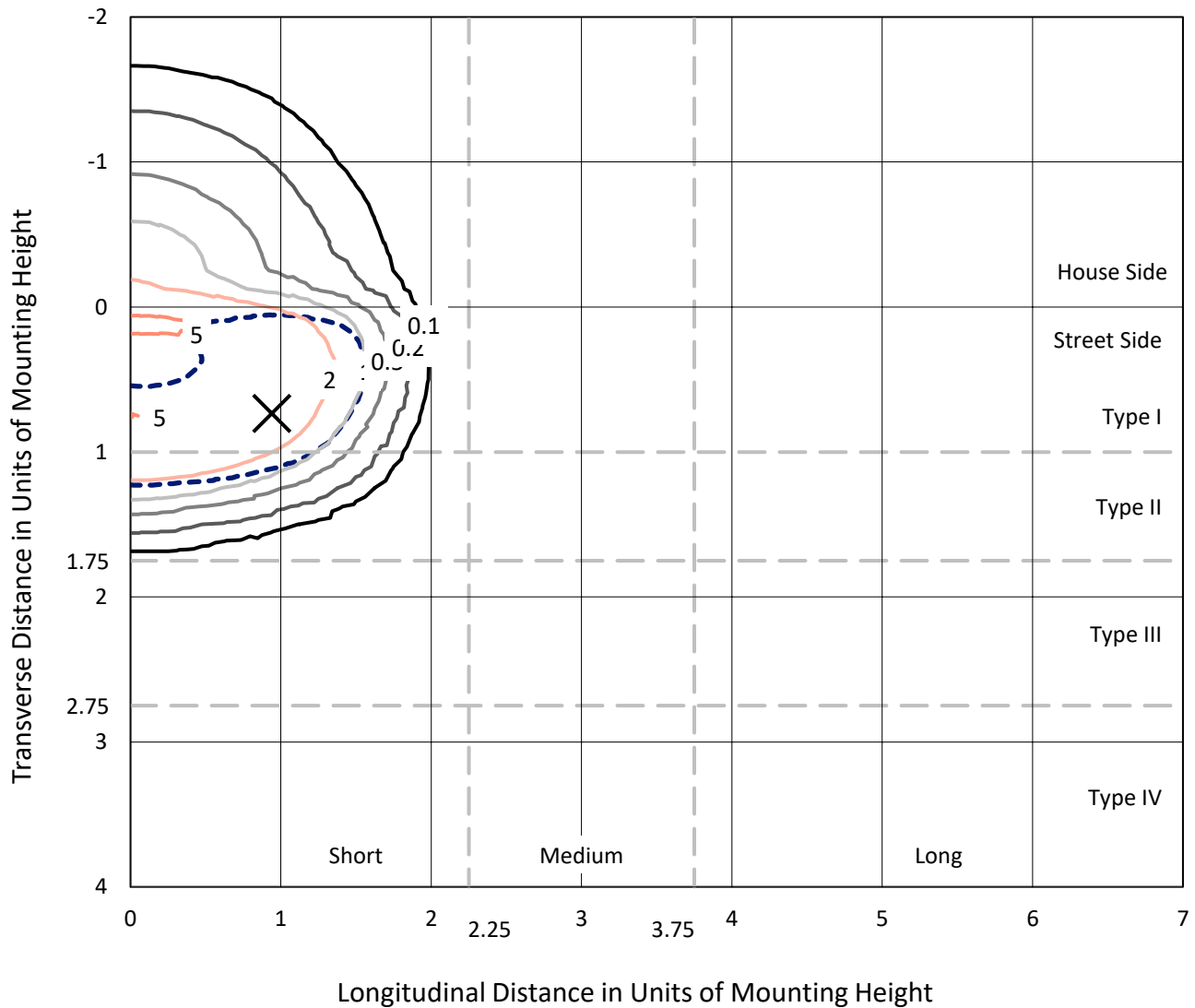


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Iso-Footcandle Lines of Horizontal Illumination

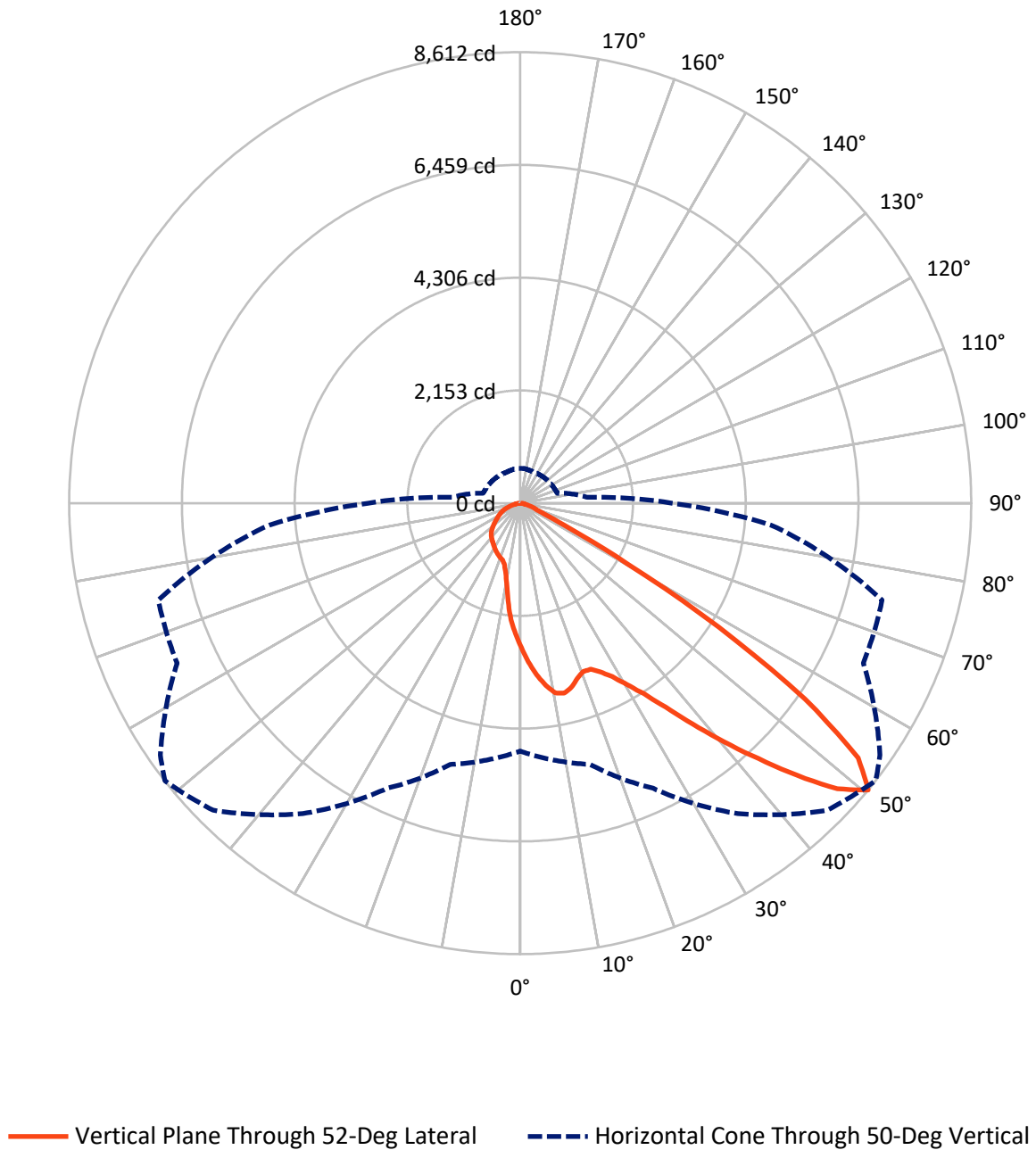
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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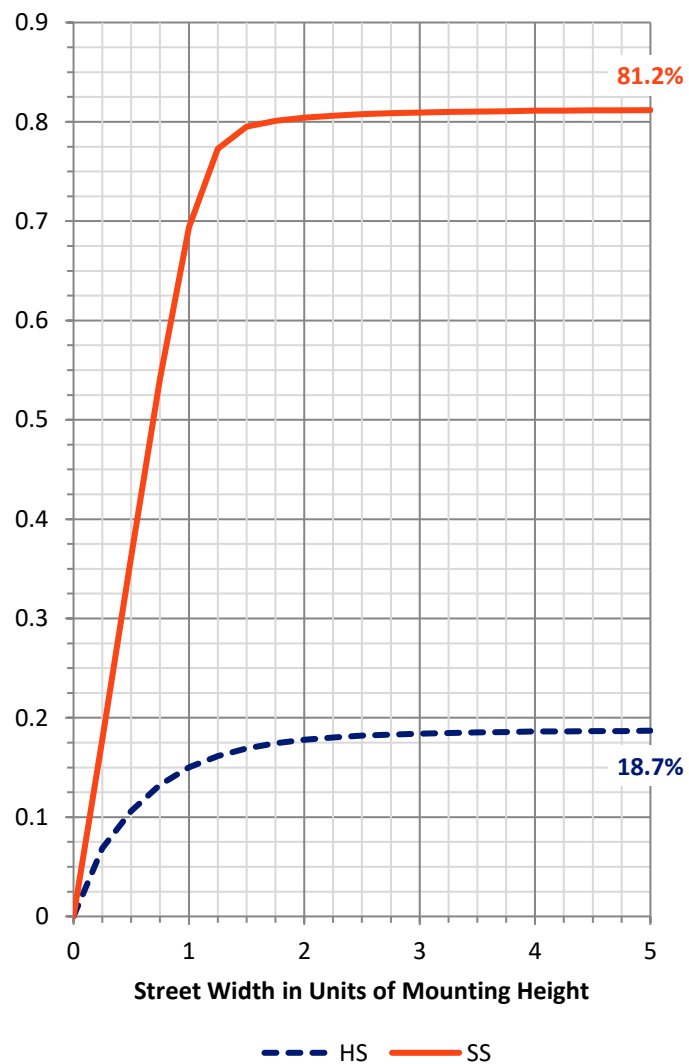
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.1	0.0	1840.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7948.9	0.0	7948.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	9789.0	0.0	9789.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.3	2.6
10°-20°	681.7	7.0
20°-30°	1148.2	11.7
30°-40°	1926.8	19.7
40°-50°	2947.6	30.1
50°-60°	2149.0	22.0
60°-70°	478.3	4.9
70°-80°	172.5	1.8
80°-90°	30.5	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°	9789.0	100.0
0°-180°	9789.0	100.0

Coefficient of Utilization



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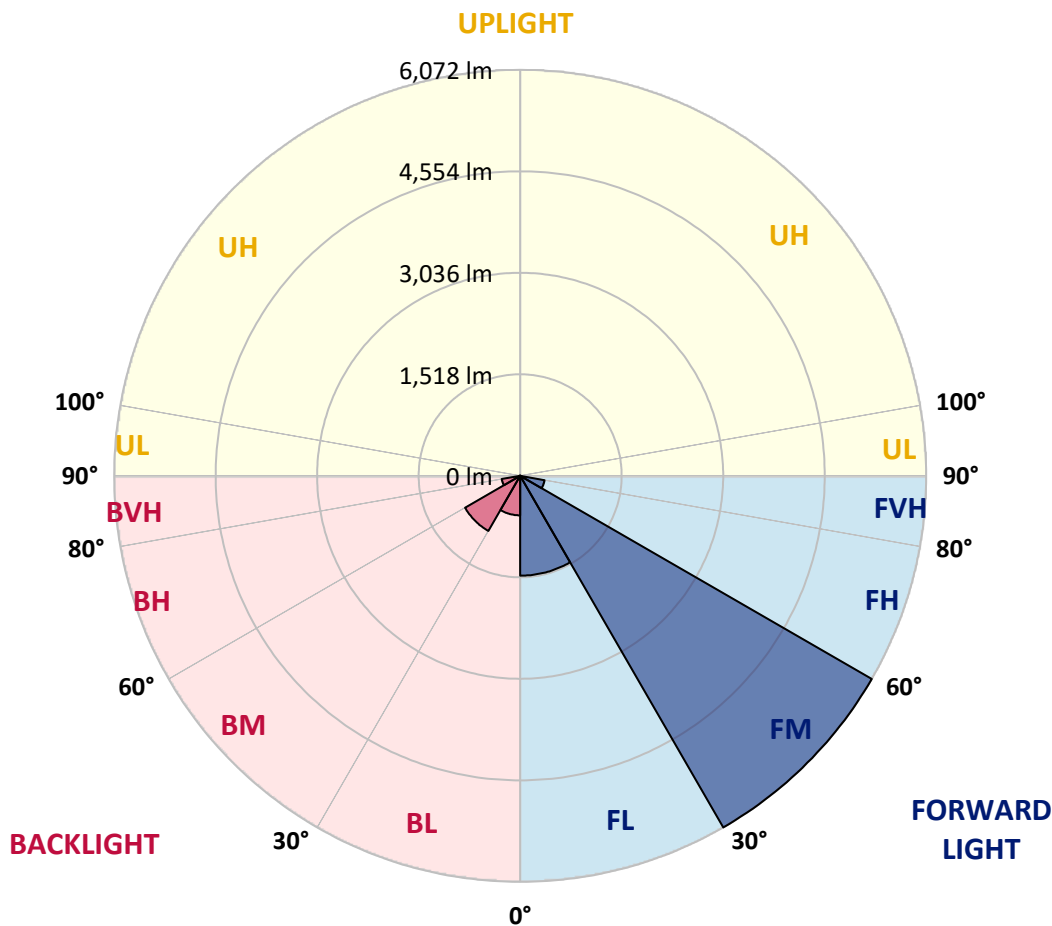
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.2	15.3			
FM	(30°-60°)	6071.6	62.0			
FH	(60°-80°)	370.4	3.8			G0/660
FVH	(80°-90°)	13.7	0.1			G1/100
BL	(0°-30°)	591.1	6.0	B2/1000		
BM	(30°-60°)	951.8	9.7	B1/1000		
BH	(60°-80°)	280.3	2.9	B1/500		G1/500
BVH	(80°-90°)	16.9	0.2			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°	52°	55°	65°	75°	85°
0°	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4
2.5°	3248.9	3186.4	3193.5	3148.7	3100.3	3086.1	3036.6	2989.4	2954.0	2878.5	2808.9
5°	3550.9	3532.1	3503.8	3468.4	3431.8	3342.1	3291.4	3232.4	3102.7	2985.9	2870.3
7.5°	3594.6	3591.1	3606.4	3606.4	3619.4	3585.2	3513.2	3471.9	3333.9	3143.9	2929.2
10°	3287.9	3298.5	3372.8	3469.5	3604.0	3697.2	3685.4	3674.8	3523.8	3264.3	2998.8
12.5°	3043.7	3020.1	3063.7	3146.3	3348.0	3573.4	3725.5	3726.7	3687.8	3456.6	3049.6
15°	2905.6	2922.2	2934.0	2972.9	3125.1	3385.8	3653.6	3732.6	3903.7	3592.2	3129.8
17.5°	2994.1	2938.7	2936.3	2945.8	3023.6	3219.4	3520.3	3655.9	4021.7	3766.8	3228.9
20°	3109.7	3108.6	3075.5	3063.7	3062.5	3237.1	3433.0	3617.0	4084.2	3993.3	3329.2
22.5°	3312.6	3312.6	3258.4	3232.4	3177.0	3319.7	3444.8	3569.8	4188.0	4149.1	3377.5
25°	3652.4	3597.0	3503.8	3440.1	3408.2	3458.9	3569.8	3681.9	4278.8	4314.2	3477.8
27.5°	3966.2	3878.9	3832.9	3723.2	3680.7	3651.2	3752.7	3865.9	4385.0	4571.4	3532.1
30°	4322.5	4307.1	4224.6	4083.0	3978.0	3923.7	4016.9	4129.0	4579.7	4834.5	3657.1
32.5°	4959.5	4820.3	4708.2	4534.8	4363.8	4248.2	4340.2	4414.5	4902.9	5109.4	3794.0
35°	5647.3	5602.5	5409.0	5096.4	4834.5	4730.7	4784.9	4840.4	5279.2	5529.3	4024.0
37.5°	6323.3	6261.9	6102.7	5839.6	5521.1	5309.9	5348.8	5413.7	5701.6	6095.6	4304.8
40°	6809.3	6733.8	6653.6	6614.7	6298.5	6009.5	5987.1	6003.6	6272.6	6626.5	4616.2
42.5°	6844.7	6937.9	6962.7	7119.6	7045.3	6808.1	6670.1	6673.7	6817.6	7151.4	4931.2
45°	6770.4	6684.3	6867.1	7295.4	7540.7	7651.6	7419.2	7389.7	7155.0	7455.8	5088.1
47.5°	5990.6	6014.2	6323.3	7000.4	7709.4	8204.9	8150.7	8052.7	7335.5	7445.2	5063.3
50°	4735.4	4878.1	5164.8	6008.3	7237.6	8292.2	8611.9	8385.4	7228.1	7152.6	4810.9
52.5°	3153.4	3212.4	3401.1	4490.0	5819.5	7412.2	8081.1	8133.0	7129.0	6769.2	4491.2
55°	1403.9	1399.1	1664.6	2345.3	3651.2	5640.2	6602.9	6919.0	6748.0	6378.7	4179.7
57.5°	594.6	614.6	723.2	1013.4	1795.5	3403.5	4473.5	4750.7	5189.6	5237.9	3206.5
60°	402.3	404.6	434.1	507.3	751.5	1598.5	2346.5	2679.1	2992.9	2971.7	1701.2
62.5°	316.2	324.4	346.8	376.3	445.9	725.5	1049.9	1235.2	1255.2	1055.8	645.3
65°	270.2	271.3	293.7	318.5	349.2	422.3	506.1	515.5	521.4	502.6	474.2
67.5°	223.0	225.3	243.0	271.3	299.6	323.2	346.8	358.6	385.8	438.9	431.8
70°	177.0	180.5	195.8	219.4	245.4	259.5	289.0	299.6	324.4	365.7	382.2
72.5°	134.5	135.7	148.6	165.2	188.8	202.9	227.7	239.5	256.0	291.4	306.7
75°	96.7	100.3	109.7	118.0	121.5	130.9	154.5	167.5	191.1	206.5	207.6
77.5°	50.7	53.1	55.4	55.4	67.2	84.9	100.3	107.4	123.9	135.7	129.8
80°	20.1	21.2	27.1	36.6	47.2	61.3	72.0	75.5	89.7	96.7	100.3
82.5°	11.8	13.0	17.7	26.0	34.2	43.6	51.9	55.4	64.9	73.1	75.5
85°	5.9	7.1	10.6	16.5	22.4	27.1	26.0	24.8	24.8	23.6	24.8
87.5°	2.4	2.4	3.5	3.5	3.5	4.7	5.9	5.9	5.9	7.1	7.1
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°	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4	2759.4
2.5°	2762.9	2715.7	2672.1	2591.8	2504.5	2479.8	2378.3	2341.7	2315.8	2285.1	2275.7
5°	2777.1	2714.5	2574.1	2412.5	2283.9	2118.8	2010.2	1893.4	1808.5	1787.3	1781.4
7.5°	2806.5	2699.2	2457.3	2213.1	1950.1	1725.9	1554.9	1462.8	1381.4	1376.7	1368.5
10°	2839.6	2653.2	2329.9	1946.5	1610.3	1402.7	1300.0	1259.9	1239.9	1235.2	1232.8
12.5°	2866.7	2643.7	2187.2	1687.0	1369.7	1244.6	1213.9	1210.4	1218.6	1221.0	1225.7
15°	2878.5	2606.0	2015.0	1454.6	1219.8	1173.8	1186.8	1201.0	1206.8	1222.2	1210.4
17.5°	2900.9	2557.6	1802.6	1270.6	1136.1	1144.3	1166.7	1183.3	1192.7	1203.3	1188.0
20°	2912.7	2514.0	1603.2	1160.8	1106.6	1121.9	1152.6	1165.6	1177.4	1182.1	1164.4
22.5°	2902.1	2424.3	1427.5	1072.4	1078.3	1098.3	1125.4	1139.6	1132.5	1113.7	1103.0
25°	2873.8	2298.1	1244.6	1015.7	1038.2	1073.5	1094.8	1084.2	1071.2	1060.6	1057.0
27.5°	2872.6	2143.5	1112.5	963.8	1003.9	1052.3	1045.2	1035.8	1041.7	1033.4	1024.0
30°	2878.5	1993.7	1003.9	934.3	979.2	1002.8	1011.0	1001.6	1008.7	993.3	998.0
32.5°	2847.8	1847.4	933.2	900.1	949.7	948.5	975.6	982.7	966.2	934.3	939.1
35°	2860.8	1729.5	873.0	884.8	916.6	916.6	937.9	929.6	886.0	867.1	871.8
37.5°	2950.5	1613.9	843.5	863.6	884.8	894.2	887.1	851.8	841.1	841.1	843.5
40°	3035.4	1514.8	825.8	858.8	855.3	861.2	809.3	812.8	812.8	814.0	808.1
42.5°	3110.9	1447.5	811.6	830.5	836.4	805.7	773.9	770.4	778.6	777.4	772.7
45°	3138.0	1392.1	791.6	798.7	803.4	752.7	737.3	730.2	739.7	743.2	747.9
47.5°	3034.2	1346.1	769.2	755.0	745.6	712.5	692.5	679.5	691.3	711.4	716.1
50°	2900.9	1285.9	733.8	706.7	686.6	672.4	658.3	645.3	653.6	667.7	664.2
52.5°	2703.9	1191.5	689.0	660.6	626.4	630.0	617.0	609.9	614.6	614.6	611.1
55°	2423.1	979.2	613.5	593.4	565.1	574.5	576.9	567.4	558.0	566.3	559.2
57.5°	1654.0	691.3	547.4	547.4	519.1	532.1	530.9	508.5	486.0	488.4	483.7
60°	956.8	550.9	504.9	500.2	470.7	481.3	483.7	468.3	434.1	436.5	431.8
62.5°	543.8	470.7	441.2	434.1	428.2	437.7	437.7	417.6	388.1	390.5	385.8
65°	462.4	436.5	394.0	392.8	390.5	392.8	383.4	362.2	336.2	325.6	326.8
67.5°	420.0	403.5	362.2	351.6	344.5	343.3	325.6	305.5	293.7	284.3	283.1
70°	368.1	355.1	324.4	310.3	303.2	286.7	269.0	256.0	239.5	234.8	239.5
72.5°	291.4	290.2	278.4	263.1	247.7	234.8	219.4	201.7	186.4	182.9	174.6
75°	201.7	204.1	206.5	204.1	191.1	174.6	156.9	142.7	123.9	113.3	110.9
77.5°	132.1	135.7	139.2	134.5	126.2	110.9	99.1	81.4	67.2	59.0	57.8
80°	96.7	101.5	103.8	100.3	90.8	79.0	66.1	51.9	41.3	34.2	34.2
82.5°	74.3	79.0	81.4	75.5	66.1	56.6	47.2	36.6	28.3	22.4	21.2
85°	26.0	24.8	29.5	30.7	36.6	34.2	28.3	21.2	16.5	11.8	10.6
87.5°	7.1	7.1	8.3	8.3	7.1	5.9	5.9	5.9	4.7	3.5	3.5
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)