

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: P452591

Luminaire Tested: **GALN-SA3C-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16432 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

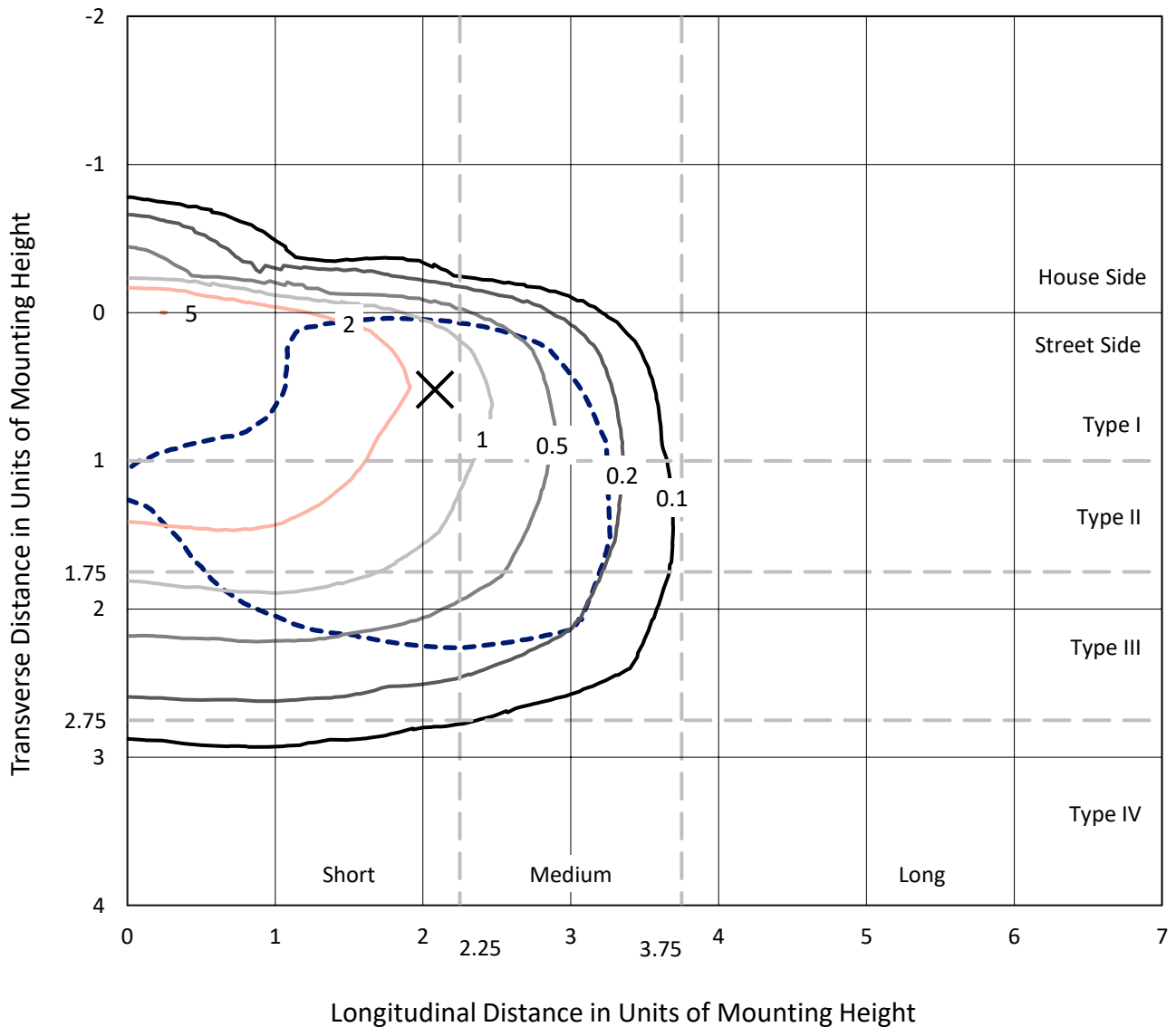
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

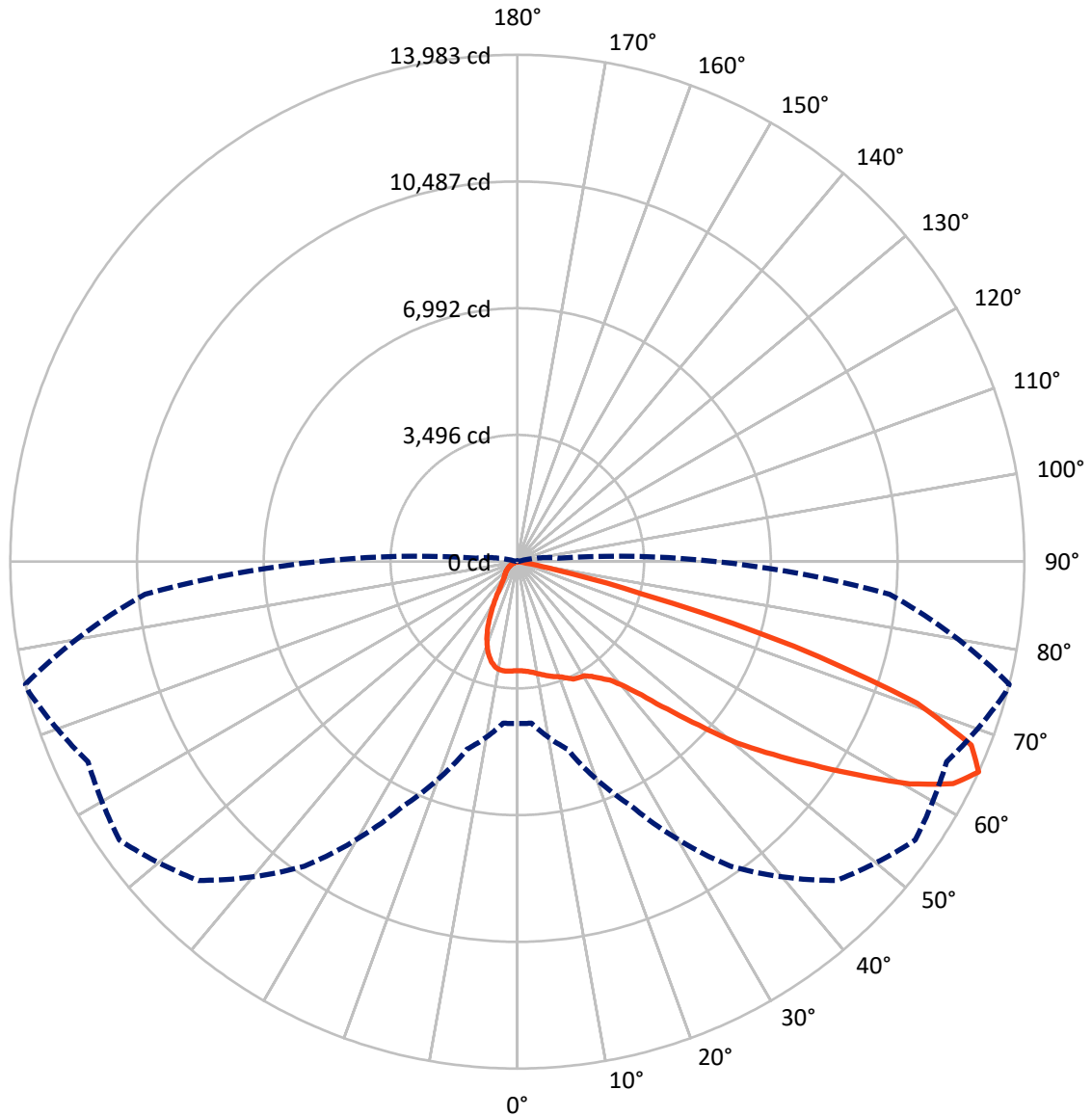
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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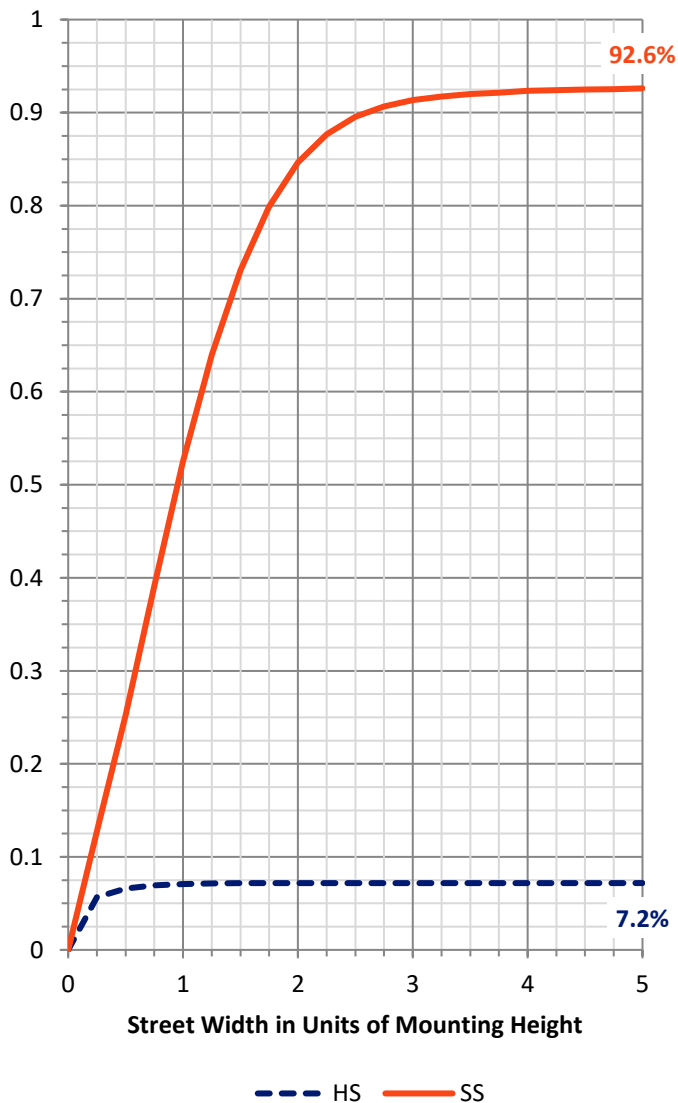
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1186.7	0.0	1186.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15245.3	0.0	15245.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	16432.0	0.0	16432.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	1.5
10°-20°	551.3	3.4
20°-30°	888.4	5.4
30°-40°	1544.8	9.4
40°-50°	2552.7	15.5
50°-60°	3943.3	24.0
60°-70°	4815.3	29.3
70°-80°	1827.5	11.1
80°-90°	61.0	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°	16432.0	100.0
0°-180°	16432.0	100.0



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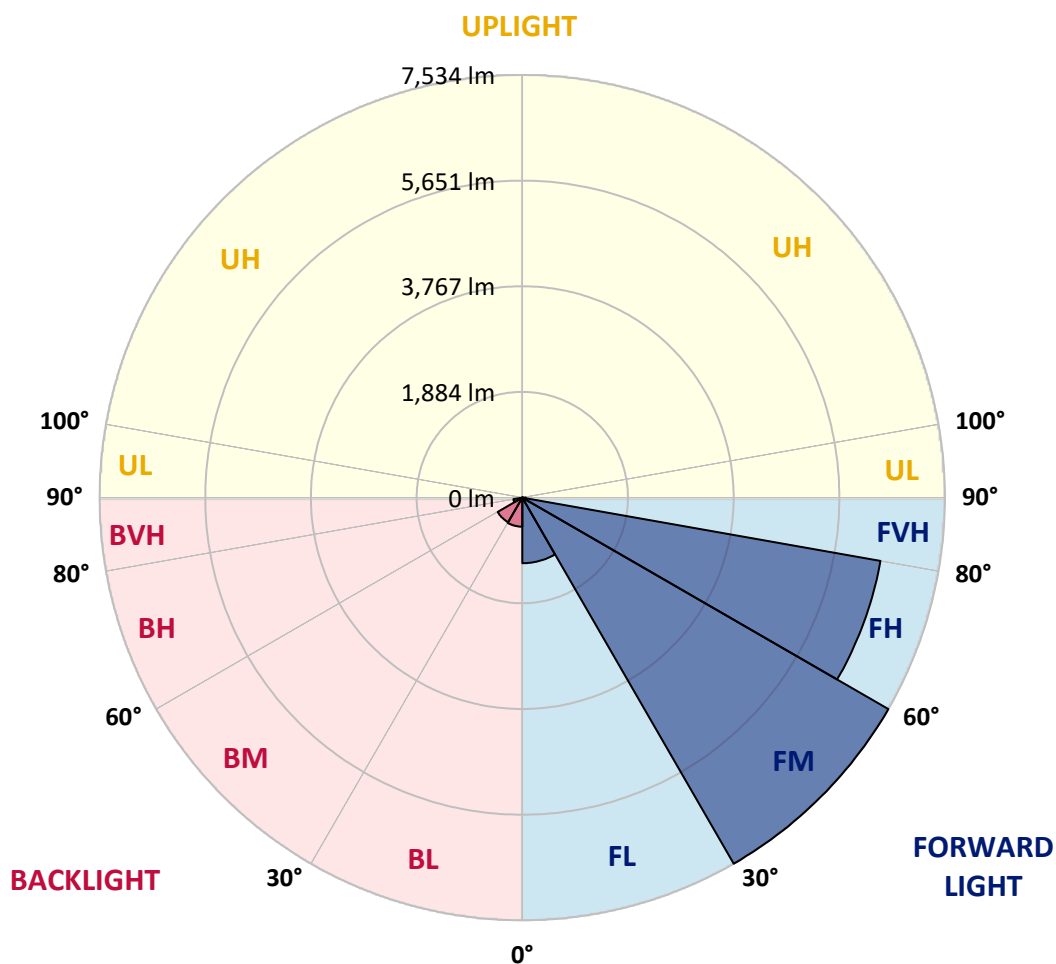
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1168.9	7.1			
FM	(30°-60°)	7534.3	45.9			
FH	(60°-80°)	6481.9	39.4			G3/7500
FVH	(80°-90°)	60.1	0.4			G1/100
BL	(0°-30°)	518.5	3.2	B2/1000		
BM	(30°-60°)	506.4	3.1	B1/1000		
BH	(60°-80°)	161.0	1.0	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: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9
2.5°	2872.5	2873.7	2880.6	2898.0	2924.7	2946.8	2965.3	2995.5	3016.4	3018.7	3025.7
5°	2674.1	2660.2	2674.1	2719.4	2760.0	2821.5	2896.9	2972.3	3039.6	3044.2	3076.7
7.5°	2451.4	2463.0	2485.0	2531.4	2608.0	2702.0	2811.0	2945.6	3073.2	3084.8	3148.6
10°	2225.2	2250.7	2286.6	2357.4	2464.1	2586.0	2734.5	2927.0	3126.6	3142.8	3253.0
12.5°	2016.3	2027.9	2072.0	2167.2	2299.4	2471.1	2676.5	2916.6	3185.8	3205.5	3364.4
15°	1856.2	1871.3	1909.6	1995.5	2142.8	2363.2	2628.9	2913.1	3243.8	3271.6	3475.8
17.5°	1826.1	1835.4	1851.6	1909.6	2038.4	2277.4	2586.0	2912.0	3299.5	3333.1	3579.0
20°	1950.2	1942.1	1925.8	1920.0	1990.8	2211.2	2554.6	2921.2	3352.8	3391.1	3688.1
22.5°	2261.1	2271.6	2176.4	2063.9	2040.7	2200.8	2550.0	2965.3	3437.5	3482.8	3809.9
25°	2921.2	2841.2	2692.7	2423.5	2220.5	2264.6	2602.2	3069.7	3536.1	3586.0	3920.1
27.5°	3651.0	3626.6	3395.7	2952.6	2574.4	2399.2	2695.0	3149.8	3568.6	3619.7	3982.8
30°	4367.9	4397.0	4132.4	3642.9	3088.3	2648.6	2782.0	3180.0	3597.6	3651.0	4062.8
32.5°	5032.7	5067.5	4835.5	4350.5	3693.9	3080.2	2931.7	3297.1	3719.4	3774.0	4196.2
35°	5555.9	5560.6	5385.4	4999.1	4355.2	3604.6	3255.4	3502.5	3884.2	3948.0	4337.8
37.5°	6036.2	6029.3	5823.9	5491.0	4906.3	4125.5	3662.6	3739.1	4072.1	4138.2	4542.0
40°	6392.4	6397.0	6330.9	6017.7	5420.2	4606.9	3985.1	3960.7	4387.7	4490.9	4839.0
42.5°	6630.2	6673.2	6705.6	6546.7	6066.4	5199.8	4480.5	4435.2	4935.3	5021.1	5258.9
45°	6822.8	6899.4	7061.8	7053.7	6687.1	5927.2	5160.3	5067.5	5711.4	5803.0	5793.8
47.5°	6963.2	7040.9	7310.1	7472.5	7270.6	6632.6	6015.4	5935.3	6638.4	6738.1	6384.3
50°	7035.1	7127.9	7471.3	7785.7	7726.6	7312.4	6989.9	6994.5	7757.9	7854.2	7068.8
52.5°	6866.9	6987.6	7557.2	8123.3	8238.2	7963.2	7902.9	8056.1	8754.5	8836.8	7687.1
55°	6329.8	6481.7	7440.0	8411.1	8831.0	8731.3	8940.1	9173.3	9843.8	9897.2	8321.7
57.5°	5989.8	6151.1	7094.3	8655.8	9543.4	9696.5	10027.1	10197.7	10968.0	11103.8	9050.3
60°	5703.3	5829.7	6810.1	8708.1	10267.3	10877.5	11198.9	11375.2	12355.6	12443.7	9852.0
62.5°	5226.5	5371.5	6329.8	8343.8	10631.6	11823.0	12489.0	12410.1	13428.7	13490.2	10343.9
65°	4459.6	4472.4	5355.2	7428.4	10255.7	12436.8	13395.0	13064.4	13941.5	13983.2	10305.6
67.5°	3328.5	3451.4	4119.7	5839.0	8662.8	11912.4	13688.6	13081.8	13617.8	13501.8	9487.7
70°	2143.9	2237.9	2792.5	4048.9	6246.2	9941.3	12715.2	12185.0	11951.8	11694.3	7766.0
72.5°	989.6	1110.3	1659.0	2313.3	3704.3	7081.5	10321.8	9899.5	8602.5	7966.7	4936.4
75°	431.6	461.7	819.1	1220.5	1736.7	3744.9	6805.4	6145.3	3885.3	3548.9	1975.7
77.5°	263.4	283.1	429.3	654.3	682.2	1427.0	3666.1	2681.1	1200.8	1059.2	536.0
80°	178.7	200.7	312.1	342.2	233.2	397.9	1375.9	715.8	242.5	232.0	114.9
82.5°	87.0	110.2	230.9	191.4	100.9	127.6	400.3	153.1	70.8	66.1	40.6
85°	12.8	22.0	129.9	125.3	45.2	30.2	70.8	38.3	24.4	23.2	18.6
87.5°	0.0	0.0	44.1	19.7	4.6	4.6	8.1	8.1	9.3	8.1	9.3
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°	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9	3005.9
2.5°	3029.1	3034.9	3012.9	2981.6	2947.9	2914.3	2866.7	2823.8	2798.3	2813.4	2776.2
5°	3083.7	3079.0	3021.0	2925.9	2799.4	2647.5	2496.6	2367.9	2326.1	2263.4	2256.5
7.5°	3159.1	3146.3	3023.3	2805.2	2519.8	2234.4	1956.0	1771.5	1666.0	1576.6	1579.0
10°	3264.6	3227.5	2996.7	2592.9	2123.1	1692.7	1337.6	1094.0	988.4	954.8	928.1
12.5°	3373.7	3301.8	2922.4	2306.4	1653.2	1156.7	813.3	664.8	599.8	578.9	576.6
15°	3471.2	3357.5	2792.5	1961.8	1201.9	739.0	554.5	505.8	497.7	498.9	497.7
17.5°	3567.4	3401.5	2612.6	1596.4	816.7	530.2	476.8	465.2	468.7	473.3	472.2
20°	3647.5	3410.8	2382.9	1218.2	577.8	465.2	447.8	445.5	449.0	452.5	452.5
22.5°	3734.5	3417.8	2110.3	843.4	472.2	432.7	423.5	423.5	428.1	432.7	433.9
25°	3799.5	3379.5	1784.3	605.6	416.5	401.4	396.8	397.9	402.6	404.9	403.7
27.5°	3809.9	3271.6	1438.6	464.1	378.2	363.1	358.5	363.1	357.3	360.8	358.5
30°	3819.2	3134.7	1088.2	391.0	343.4	320.2	313.2	306.3	301.6	295.8	294.7
32.5°	3848.2	2973.5	794.7	351.5	310.9	285.4	269.2	249.4	234.3	229.7	228.5
35°	3861.0	2779.7	583.6	320.2	281.9	254.1	225.1	197.2	175.2	167.1	172.9
37.5°	3909.7	2591.8	452.5	297.0	256.4	221.6	184.5	149.7	128.8	124.1	126.5
40°	4009.5	2387.6	379.4	277.3	234.3	191.4	146.2	112.5	98.6	94.0	92.8
42.5°	4169.6	2184.6	337.6	258.7	212.3	161.3	114.9	88.2	76.6	73.1	73.1
45°	4364.5	1989.6	308.6	239.0	189.1	129.9	90.5	70.8	63.8	61.5	61.5
47.5°	4620.9	1819.1	284.2	219.3	163.6	103.3	73.1	61.5	56.8	58.0	59.2
50°	4880.7	1692.7	257.6	197.2	134.6	84.7	62.6	54.5	53.4	54.5	54.5
52.5°	5076.8	1618.4	221.6	167.1	105.6	70.8	55.7	51.0	49.9	47.6	47.6
55°	5341.3	1602.2	176.3	135.7	83.5	59.2	49.9	46.4	42.9	40.6	39.4
57.5°	5681.2	1620.7	135.7	105.6	65.0	48.7	44.1	38.3	33.6	29.0	29.0
60°	5892.4	1579.0	105.6	81.2	47.6	39.4	33.6	27.8	22.0	18.6	17.4
62.5°	5825.1	1402.6	83.5	60.3	33.6	29.0	22.0	18.6	12.8	9.3	8.1
65°	5478.2	1132.3	67.3	41.8	24.4	17.4	11.6	11.6	5.8	1.2	0.0
67.5°	4794.9	838.8	53.4	27.8	13.9	8.1	5.8	3.5	0.0	0.0	0.0
70°	3902.7	605.6	41.8	17.4	8.1	5.8	2.3	1.2	0.0	0.0	0.0
72.5°	2478.1	346.9	32.5	10.4	5.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	958.3	135.7	22.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	271.5	63.8	12.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.8	27.8	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.7	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	1.2	0.0	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)