

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: P452794

Luminaire Tested: **GALN-SA3D-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452794
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-SA3D-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 16466 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

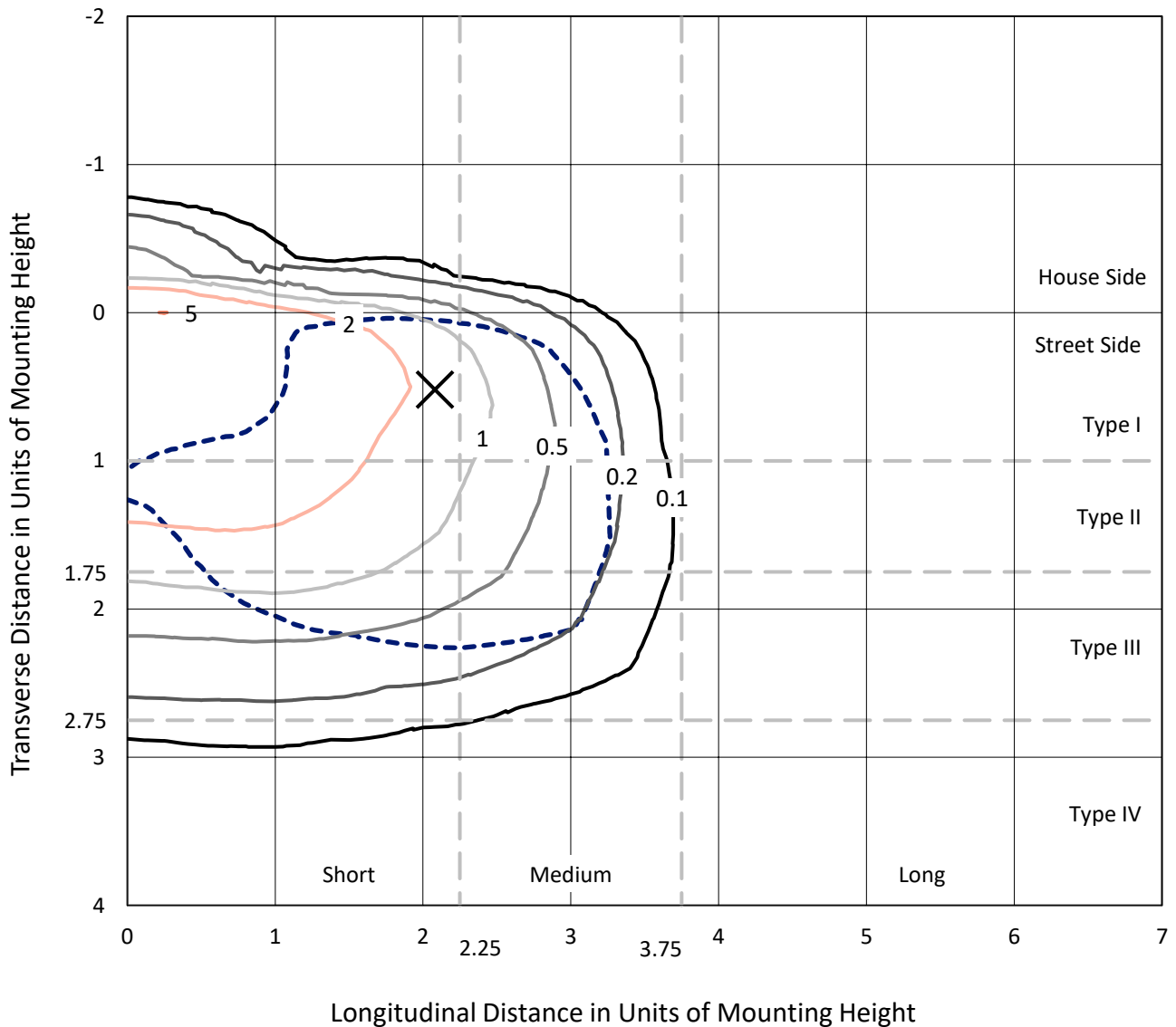
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

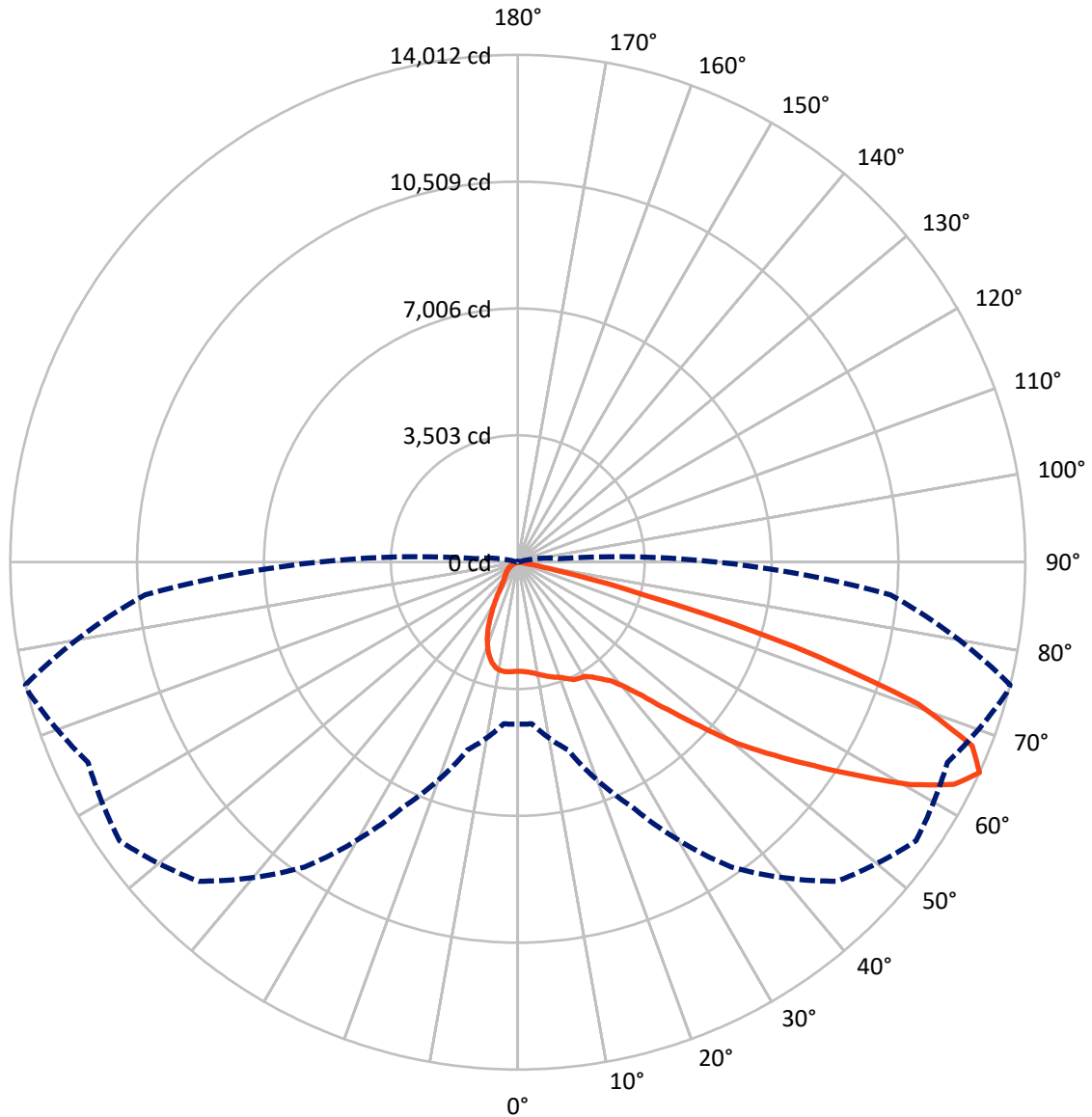
× Max cd
 - - - 1/2 Max cd



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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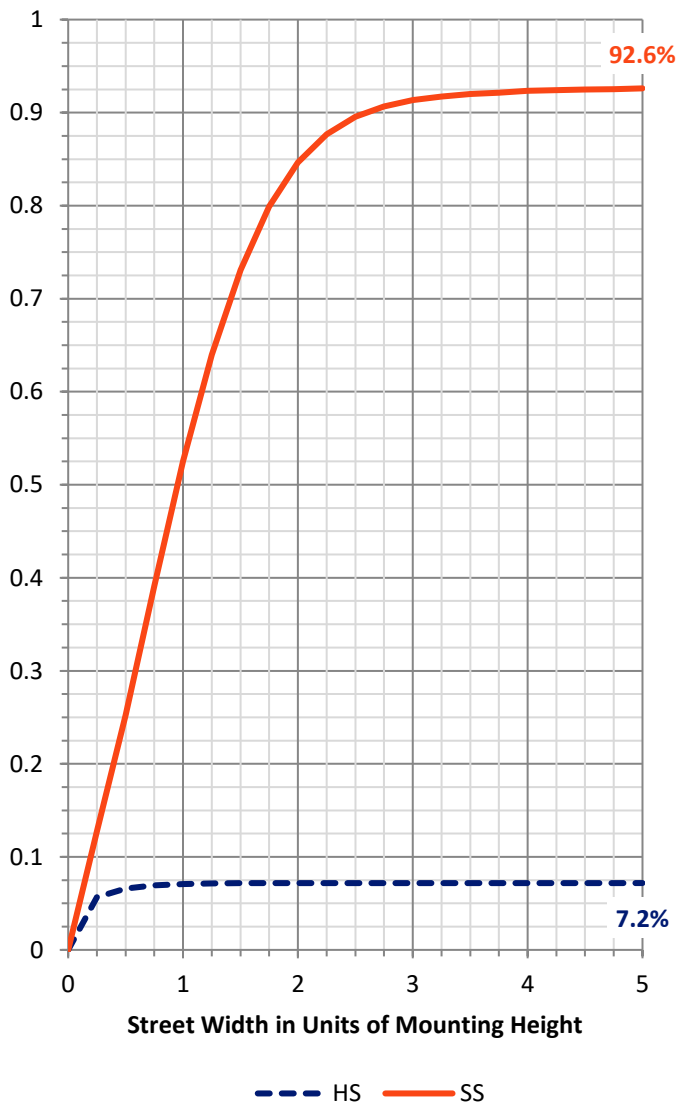
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.2	0.0	1189.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15276.8	0.0	15276.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	16466.0	0.0	16466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	1.5
10°-20°	552.5	3.4
20°-30°	890.3	5.4
30°-40°	1548.0	9.4
40°-50°	2557.9	15.5
50°-60°	3951.5	24.0
60°-70°	4825.3	29.3
70°-80°	1831.3	11.1
80°-90°	61.1	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°	16466.0	100.0
0°-180°	16466.0	100.0

Coefficient of Utilization



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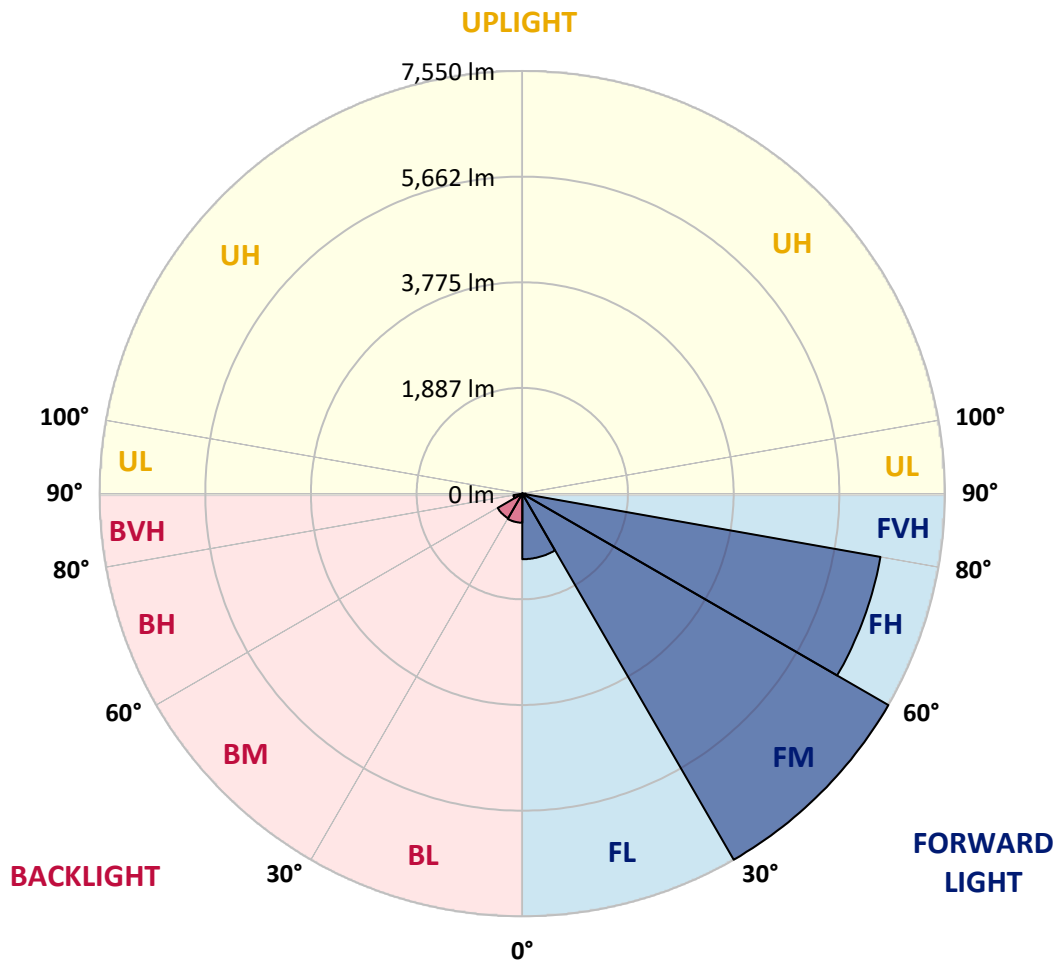
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1171.4	7.1			
FM (30°-60°)	7549.9	45.9			
FH (60°-80°)	6495.3	39.4			G3/7500
FVH (80°-90°)	60.3	0.4			G1/100
BL (0°-30°)	519.5	3.2	B2/1000		
BM (30°-60°)	507.5	3.1	B1/1000		
BH (60°-80°)	161.4	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°	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2
2.5°	2878.5	2879.6	2886.6	2904.0	2930.8	2952.9	2971.5	3001.7	3022.6	3024.9	3031.9
5°	2679.7	2665.7	2679.7	2725.0	2765.7	2827.3	2902.9	2978.4	3045.9	3050.5	3083.1
7.5°	2456.5	2468.1	2490.2	2536.7	2613.4	2707.6	2816.8	2951.7	3079.6	3091.2	3155.2
10°	2229.8	2255.3	2291.4	2362.3	2469.2	2591.3	2740.1	2933.1	3133.1	3149.3	3259.8
12.5°	2020.5	2032.1	2076.3	2171.6	2304.2	2476.2	2682.0	2922.6	3192.4	3212.1	3371.4
15°	1860.1	1875.2	1913.6	1999.6	2147.2	2368.1	2634.3	2919.2	3250.5	3278.4	3483.0
17.5°	1829.8	1839.1	1855.4	1913.6	2042.6	2282.1	2591.3	2918.0	3306.3	3340.0	3586.5
20°	1954.2	1946.1	1929.8	1924.0	1994.9	2215.8	2559.9	2927.3	3359.8	3398.1	3695.7
22.5°	2265.8	2276.3	2180.9	2068.2	2044.9	2205.3	2555.3	2971.5	3444.6	3490.0	3817.8
25°	2927.3	2847.1	2698.3	2428.6	2225.1	2269.3	2607.6	3076.1	3543.4	3593.4	3928.2
27.5°	3658.5	3634.1	3402.8	2958.7	2579.7	2404.1	2700.6	3156.3	3576.0	3627.1	3991.0
30°	4377.0	4406.0	4141.0	3650.4	3094.7	2654.1	2787.8	3186.5	3605.1	3658.5	4071.2
32.5°	5043.1	5078.0	4845.5	4359.5	3701.5	3086.6	2937.8	3304.0	3727.1	3781.8	4204.9
35°	5567.4	5572.1	5396.5	5009.4	4364.2	3612.0	3262.1	3509.7	3892.2	3956.1	4346.8
37.5°	6048.7	6041.8	5836.0	5502.3	4916.4	4134.0	3670.2	3746.9	4080.5	4146.8	4551.4
40°	6405.6	6410.3	6344.0	6030.1	5431.4	4616.5	3993.3	3968.9	4396.7	4500.2	4849.0
42.5°	6644.0	6687.0	6719.5	6560.2	6079.0	5210.5	4489.8	4444.4	4945.5	5031.5	5269.8
45°	6836.9	6913.7	7076.4	7068.3	6700.9	5939.4	5171.0	5078.0	5723.2	5815.1	5805.8
47.5°	6977.6	7055.5	7325.2	7488.0	7285.7	6646.3	6027.8	5947.6	6652.1	6752.1	6397.5
50°	7049.7	7142.7	7486.8	7801.8	7742.6	7327.5	7004.3	7009.0	7773.9	7870.4	7083.4
52.5°	6881.1	7002.0	7572.8	8140.1	8255.2	7979.7	7919.3	8072.7	8772.6	8855.1	7703.0
55°	6342.9	6495.1	7455.4	8428.5	8849.3	8749.3	8958.6	9192.3	9864.2	9917.7	8338.9
57.5°	6002.2	6163.8	7109.0	8673.8	9563.1	9716.6	10047.9	10218.8	10990.7	11126.7	9069.0
60°	5715.1	5841.8	6824.1	8726.1	10288.5	10900.0	11222.1	11398.8	12381.1	12469.5	9872.3
62.5°	5237.3	5382.6	6342.9	8361.0	10653.6	11847.5	12514.8	12435.8	13456.5	13518.1	10365.3
65°	4468.8	4481.6	5366.3	7443.8	10276.9	12462.5	13422.8	13091.4	13970.3	14012.2	10326.9
67.5°	3335.3	3458.6	4128.2	5851.1	8680.7	11937.0	13716.9	13108.9	13646.0	13529.7	9507.3
70°	2148.4	2242.6	2798.2	4057.3	6259.1	9961.9	12741.5	12210.2	11976.5	11718.5	7782.1
72.5°	991.7	1112.6	1662.4	2318.1	3712.0	7096.2	10343.2	9920.0	8620.3	7983.2	4946.6
75°	432.5	462.7	820.8	1223.0	1740.3	3752.7	6819.5	6158.0	3893.4	3556.2	1979.8
77.5°	263.9	283.7	430.1	655.7	683.6	1429.9	3673.6	2686.6	1203.2	1061.4	537.1
80°	179.0	201.1	312.7	343.0	233.7	398.8	1378.8	717.3	243.0	232.5	115.1
82.5°	87.2	110.4	231.3	191.8	101.1	127.9	401.1	153.5	70.9	66.3	40.7
85°	12.8	22.1	130.2	125.6	45.3	30.2	70.9	38.4	24.4	23.3	18.6
87.5°	0.0	0.0	44.2	19.8	4.7	4.7	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°	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2	3012.2
2.5°	3035.4	3041.2	3019.1	2987.7	2954.0	2920.3	2872.7	2829.6	2804.1	2819.2	2782.0
5°	3090.0	3085.4	3027.3	2931.9	2805.2	2652.9	2501.8	2372.8	2330.9	2268.1	2261.2
7.5°	3165.6	3152.8	3029.6	2811.0	2525.1	2239.1	1960.1	1775.2	1669.4	1579.9	1582.2
10°	3271.4	3234.2	3002.9	2598.3	2127.5	1696.2	1340.4	1096.3	990.5	956.8	930.0
12.5°	3380.7	3308.6	2928.5	2311.1	1656.6	1159.1	814.9	666.1	601.0	580.1	577.8
15°	3478.3	3364.4	2798.2	1965.9	1204.4	740.5	555.7	506.9	498.7	499.9	498.7
17.5°	3574.8	3408.6	2618.1	1599.7	818.4	531.3	477.8	466.2	469.7	474.3	473.2
20°	3655.0	3417.9	2387.9	1220.7	578.9	466.2	448.7	446.4	449.9	453.4	453.4
22.5°	3742.2	3424.9	2114.7	845.2	473.2	433.6	424.3	424.3	429.0	433.6	434.8
25°	3807.3	3386.5	1788.0	606.8	417.4	402.2	397.6	398.8	403.4	405.7	404.6
27.5°	3817.8	3278.4	1441.6	465.0	379.0	363.9	359.2	363.9	358.1	361.6	359.2
30°	3827.1	3141.2	1090.5	391.8	344.1	320.9	313.9	306.9	302.3	296.4	295.3
32.5°	3856.2	2979.6	796.3	352.3	311.6	286.0	269.7	249.9	234.8	230.2	229.0
35°	3869.0	2785.5	584.8	320.9	282.5	254.6	225.5	197.6	175.5	167.4	173.2
37.5°	3917.8	2597.1	453.4	297.6	256.9	222.0	184.8	150.0	129.0	124.4	126.7
40°	4017.8	2392.5	380.2	277.8	234.8	191.8	146.5	112.8	98.8	94.2	93.0
42.5°	4178.2	2189.1	338.3	259.2	212.7	161.6	115.1	88.4	76.7	73.2	73.2
45°	4373.5	1993.8	309.2	239.5	189.5	130.2	90.7	70.9	63.9	61.6	61.6
47.5°	4630.4	1822.9	284.8	219.7	163.9	103.5	73.2	61.6	57.0	58.1	59.3
50°	4890.8	1696.2	258.1	197.6	134.9	84.9	62.8	54.6	53.5	54.6	54.6
52.5°	5087.3	1621.8	222.0	167.4	105.8	70.9	55.8	51.2	50.0	47.7	47.7
55°	5352.4	1605.5	176.7	136.0	83.7	59.3	50.0	46.5	43.0	40.7	39.5
57.5°	5693.0	1624.1	136.0	105.8	65.1	48.8	44.2	38.4	33.7	29.1	29.1
60°	5904.6	1582.2	105.8	81.4	47.7	39.5	33.7	27.9	22.1	18.6	17.4
62.5°	5837.1	1405.5	83.7	60.5	33.7	29.1	22.1	18.6	12.8	9.3	8.1
65°	5489.5	1134.6	67.4	41.9	24.4	17.4	11.6	11.6	5.8	1.2	0.0
67.5°	4804.8	840.5	53.5	27.9	14.0	8.1	5.8	3.5	0.0	0.0	0.0
70°	3910.8	606.8	41.9	17.4	8.1	5.8	2.3	1.2	0.0	0.0	0.0
72.5°	2483.2	347.6	32.6	10.5	5.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	960.3	136.0	22.1	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	272.0	63.9	12.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.9	27.9	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.7	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.8	4.7	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)