

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: P527946

Luminaire Tested: **GALN-SA3A-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10538 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

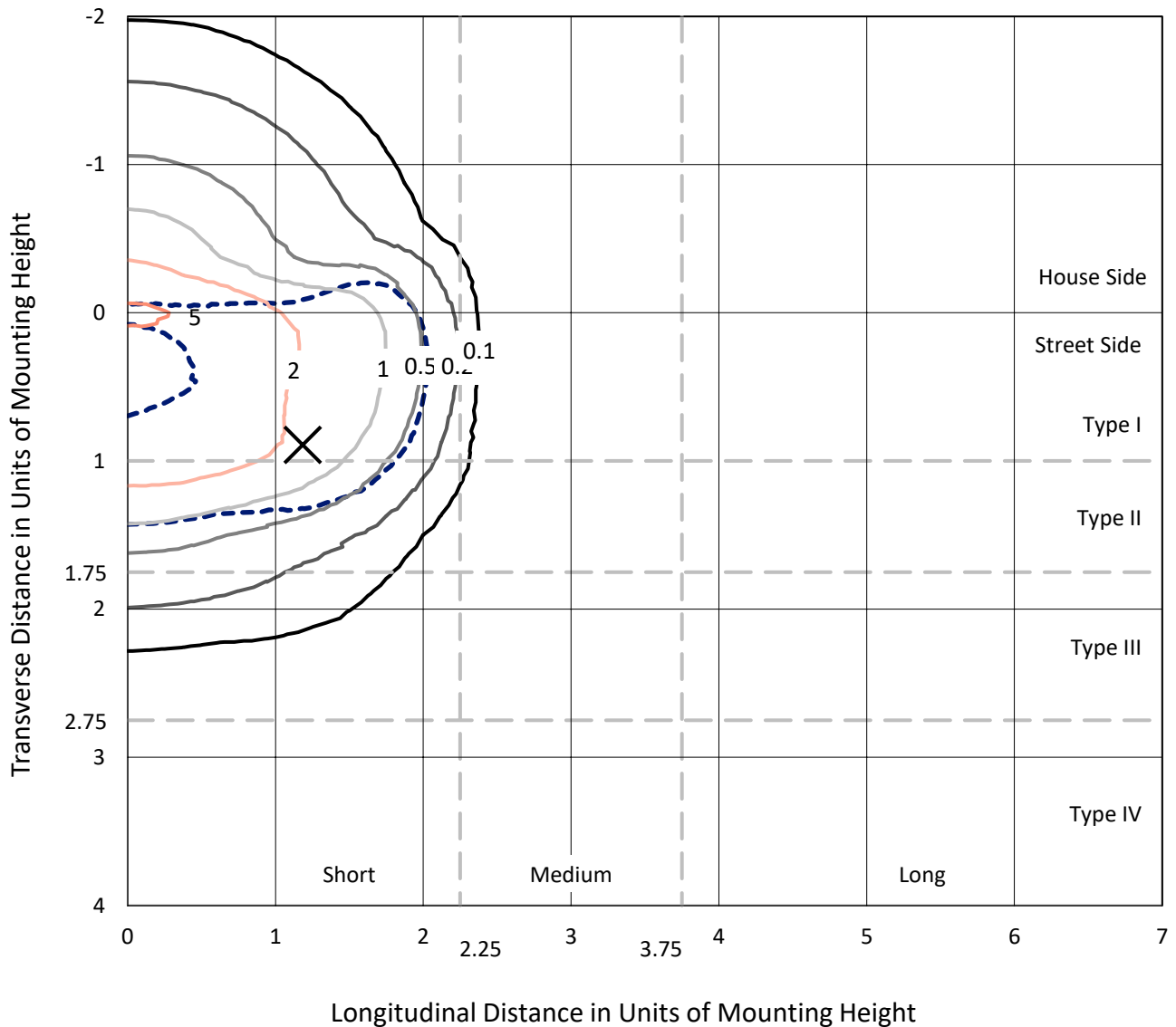
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

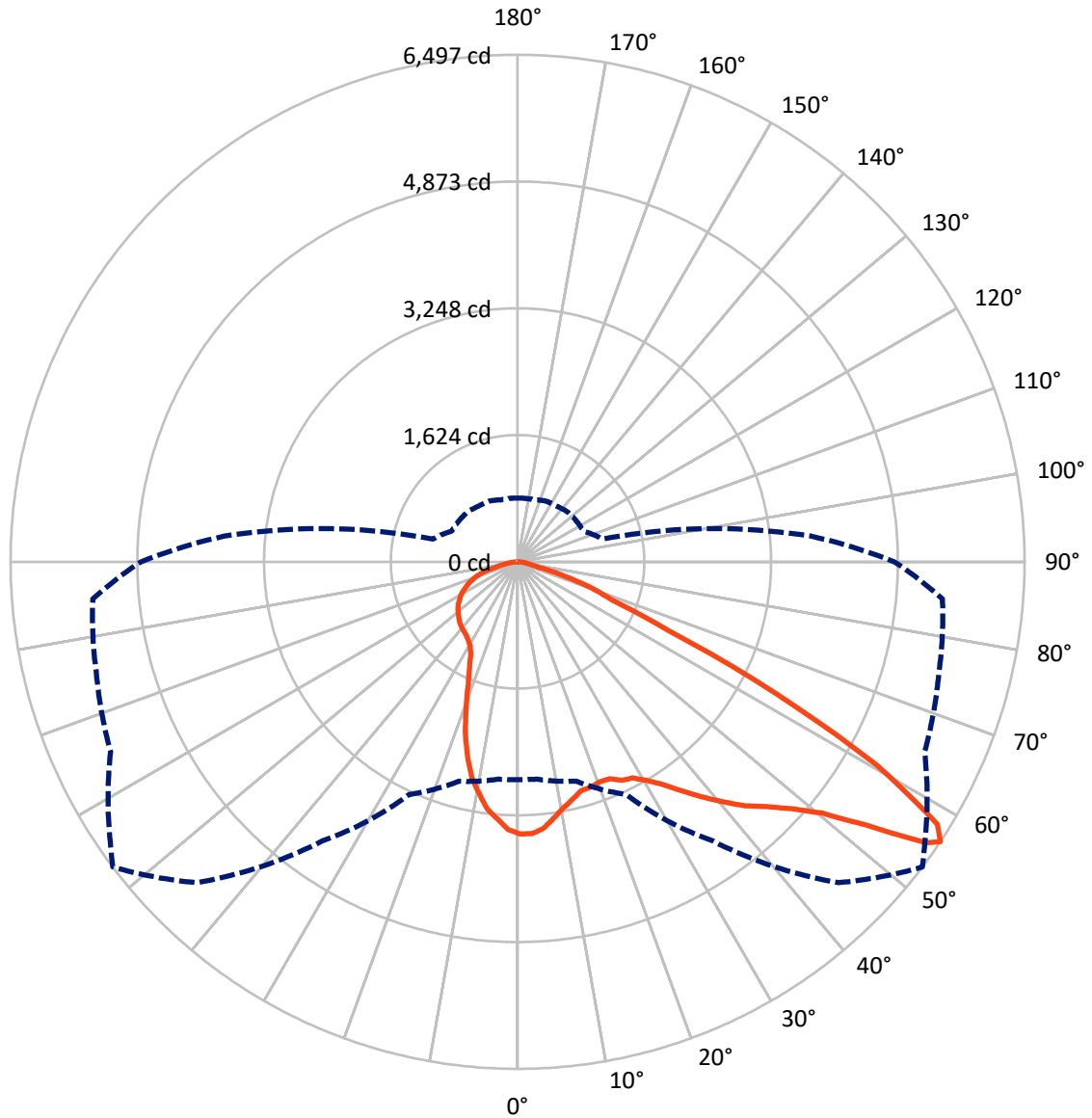
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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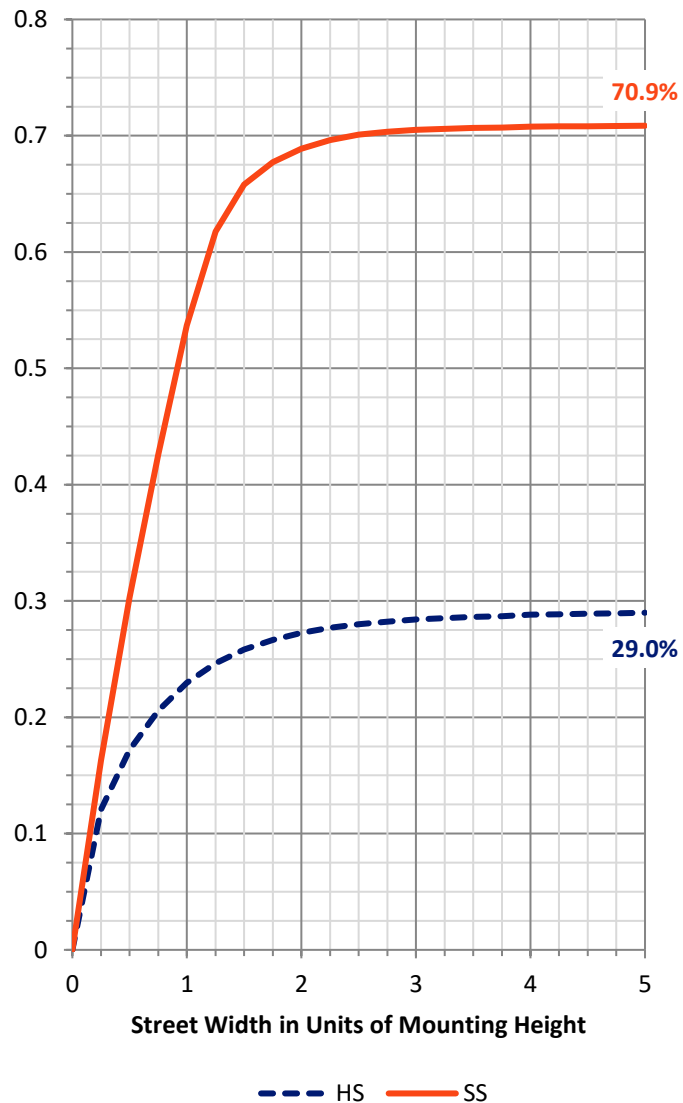
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3075.2	0.0	3075.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7462.8	0.0	7462.8
	% Fixture	70.8	0.0	70.8
Total	Lumens	10538.0	0.0	10538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	2.9
10°-20°	770.9	7.3
20°-30°	1136.7	10.8
30°-40°	1624.1	15.4
40°-50°	2235.4	21.2
50°-60°	2641.6	25.1
60°-70°	1407.8	13.4
70°-80°	357.2	3.4
80°-90°	55.7	0.5
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°	10538.0	100.0
0°-180°	10538.0	100.0

Coefficient of Utilization



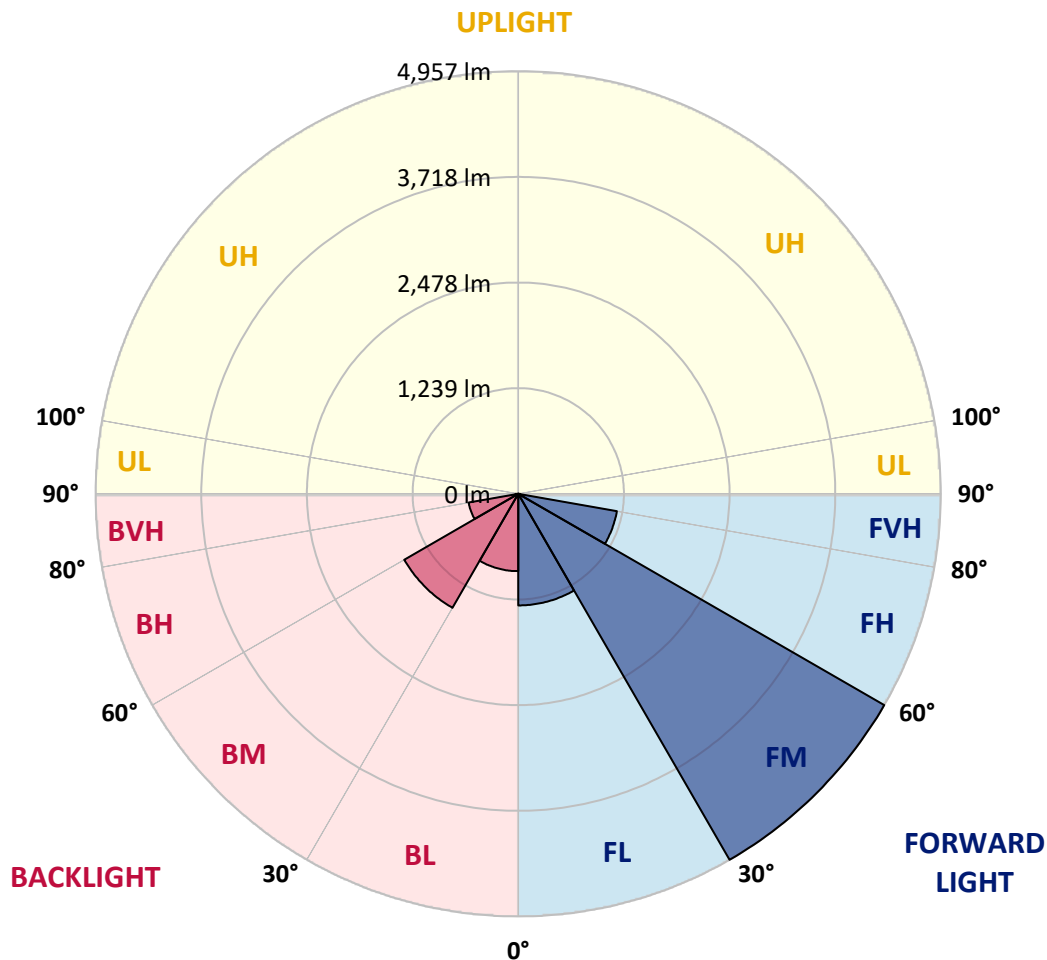
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.2	12.4			
FM (30°-60°)	4956.9	47.0			
FH (60°-80°)	1174.3	11.1			G1/1800
FVH (80°-90°)	22.4	0.2			G1/100
BL (0°-30°)	907.0	8.6	B2/1000		
BM (30°-60°)	1544.3	14.7	B2/2500		
BH (60°-80°)	590.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	33.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4
2.5°	3443.1	3413.4	3431.0	3424.2	3479.6	3495.8	3487.7	3494.5	3525.6	3510.7	3479.6
5°	3217.4	3259.3	3267.4	3287.7	3320.1	3383.6	3433.7	3447.2	3462.1	3531.0	3524.2
7.5°	3011.9	3040.3	3025.4	3084.9	3155.2	3257.9	3318.8	3329.6	3466.1	3504.0	3532.3
10°	2882.1	2853.7	2921.3	2937.5	3017.3	3134.9	3207.9	3252.5	3376.9	3526.9	3544.5
12.5°	2761.8	2752.3	2792.9	2838.9	2928.1	3049.7	3124.1	3141.7	3333.6	3491.8	3574.3
15°	2672.6	2661.8	2702.3	2736.1	2840.2	2948.4	3043.0	3093.0	3286.3	3471.5	3548.6
17.5°	2602.3	2600.9	2623.9	2684.7	2791.5	2882.1	3034.9	3037.6	3262.0	3502.6	3570.2
20°	2598.2	2596.9	2600.9	2668.5	2765.9	2876.7	3009.2	3033.5	3262.0	3481.0	3571.6
22.5°	2632.0	2610.4	2634.7	2678.0	2748.3	2886.2	3018.7	3072.7	3340.4	3587.8	3632.4
25°	2686.1	2691.5	2705.0	2719.9	2760.4	2907.8	3102.5	3147.1	3432.3	3679.7	3716.2
27.5°	2784.8	2782.1	2787.5	2795.6	2830.7	2928.1	3136.3	3251.2	3624.3	3843.3	3806.8
30°	2929.4	2920.0	2941.6	2970.0	2937.5	2993.0	3248.5	3335.0	3802.7	4008.2	3908.2
32.5°	3060.6	3095.7	3136.3	3148.4	3109.2	3120.0	3397.2	3485.0	3951.4	4211.0	4032.5
35°	3224.1	3252.5	3306.6	3344.4	3337.7	3305.2	3599.9	3716.2	4166.4	4359.7	4163.7
37.5°	3383.6	3417.4	3506.7	3618.9	3556.7	3541.8	3816.2	3912.2	4232.6	4439.4	4259.6
40°	3640.5	3639.1	3793.3	3851.4	3906.8	3881.1	4040.6	4073.1	4267.7	4421.9	4262.3
42.5°	3942.0	3923.0	4079.8	4170.4	4242.1	4244.8	4274.5	4263.7	4284.0	4332.6	4234.0
45°	4228.5	4269.1	4427.3	4589.5	4661.1	4669.2	4471.9	4451.6	4312.4	4307.0	4179.9
47.5°	4578.7	4588.1	4717.9	4931.5	5097.8	5041.0	4727.4	4682.8	4436.7	4478.6	4270.5
50°	4598.9	4669.2	4785.5	5036.9	5547.9	5533.1	5058.6	4974.8	4636.8	4722.0	4523.2
52.5°	4174.5	4158.2	4296.1	4707.1	5514.1	6022.4	5607.4	5407.3	5066.7	5001.8	4932.9
55°	3180.9	3218.7	3340.4	3755.4	4788.2	6029.2	6355.0	6191.4	5526.3	5415.5	5335.7
56°	2790.2	2795.6	2910.5	3289.0	4369.1	5814.2	6496.9	6364.4	5754.8	5585.8	5464.1
57.5°	2313.0	2281.9	2341.4	2548.2	3687.8	5360.0	6341.5	6471.2	6022.4	5769.6	5600.7
60°	1820.9	1814.2	1789.8	1827.7	2330.6	4037.9	5278.9	5570.9	5995.4	5596.6	5364.1
62.5°	1487.0	1453.2	1501.9	1556.0	1619.5	2505.0	3709.4	3881.1	4759.8	4467.8	4029.8
65°	1153.1	1136.9	1197.7	1373.5	1411.3	1591.1	2112.9	2245.4	2810.5	2760.4	2430.6
67.5°	793.5	796.2	849.0	1116.6	1308.6	1292.4	1293.7	1362.7	1466.7	1089.6	949.0
70°	502.9	501.5	529.9	719.2	1053.1	1063.9	1009.8	989.5	938.2	567.8	601.6
72.5°	323.1	313.6	328.5	397.4	544.8	630.0	648.9	661.0	543.4	446.1	484.0
75°	182.5	173.0	167.6	185.2	214.9	248.7	273.1	281.2	315.0	338.0	358.2
77.5°	55.4	50.0	60.8	81.1	106.8	143.3	174.4	179.8	212.2	239.3	259.6
80°	24.3	27.0	37.9	54.1	75.7	101.4	123.0	131.1	152.8	173.0	178.4
82.5°	14.9	16.2	25.7	36.5	52.7	71.6	87.9	90.6	112.2	128.4	132.5
85°	5.4	6.8	13.5	21.6	33.8	46.0	46.0	50.0	46.0	46.0	50.0
87.5°	0.0	0.0	1.4	2.7	2.7	4.1	5.4	5.4	6.8	8.1	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°	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4	3486.4
2.5°	3495.8	3489.1	3478.3	3439.1	3435.0	3422.8	3355.3	3344.4	3355.3	3322.8	3325.5
5°	3489.1	3509.4	3428.3	3389.1	3316.1	3263.3	3202.5	3171.4	3116.0	3080.8	3120.0
7.5°	3518.8	3510.7	3409.3	3324.2	3214.7	3080.8	2974.0	2913.2	2815.9	2788.8	2809.1
10°	3508.0	3464.8	3345.8	3233.6	3026.8	2909.2	2736.1	2568.5	2476.6	2429.2	2422.5
12.5°	3493.1	3481.0	3282.3	3088.9	2871.3	2623.9	2380.6	2222.4	2072.4	2007.5	2016.9
15°	3510.7	3408.0	3163.3	2918.6	2629.3	2304.9	2042.6	1838.5	1734.4	1692.5	1692.5
17.5°	3502.6	3372.8	3106.5	2728.0	2361.7	1977.7	1689.8	1566.8	1523.5	1523.5	1535.7
20°	3506.7	3395.8	2991.6	2537.4	2045.3	1665.5	1455.9	1411.3	1430.2	1437.0	1443.8
22.5°	3529.6	3320.1	2879.4	2327.9	1752.0	1424.8	1322.1	1323.4	1357.2	1393.7	1387.0
25°	3558.0	3290.4	2742.9	2119.7	1527.6	1307.2	1274.8	1270.7	1296.4	1315.3	1318.0
27.5°	3533.7	3239.0	2603.6	1860.1	1343.7	1228.8	1222.1	1224.8	1232.9	1270.7	1258.6
30°	3613.5	3253.9	2429.2	1642.5	1242.3	1203.1	1195.0	1191.0	1203.1	1213.9	1204.5
32.5°	3712.1	3201.1	2299.5	1432.9	1192.3	1184.2	1168.0	1162.6	1169.3	1158.5	1163.9
35°	3755.4	3191.7	2130.5	1282.9	1153.1	1146.4	1136.9	1135.5	1136.9	1127.4	1119.3
37.5°	3779.7	3236.3	1937.2	1213.9	1128.8	1135.5	1113.9	1111.2	1086.9	1092.3	1096.3
40°	3821.6	3167.4	1780.4	1147.7	1113.9	1100.4	1081.5	1077.4	1061.2	1051.7	1061.2
42.5°	3760.8	3147.1	1626.3	1119.3	1092.3	1077.4	1063.9	1040.9	1035.5	1027.4	1022.0
45°	3712.1	3030.8	1488.4	1084.2	1066.6	1058.5	1032.8	1008.5	988.2	996.3	984.1
47.5°	3748.6	2990.3	1351.8	1054.4	1031.5	1022.0	996.3	977.4	957.1	947.6	944.9
50°	3894.6	3066.0	1236.9	1032.8	1001.7	996.3	962.5	940.9	922.0	915.2	917.9
52.5°	4243.4	3272.8	1158.5	988.2	973.3	949.0	930.1	903.0	890.9	869.2	882.7
55°	4685.5	3609.4	1138.2	946.3	938.2	916.5	890.9	870.6	847.6	830.0	826.0
56°	4827.4	3770.3	1122.0	930.1	916.5	904.4	870.6	858.4	821.9	817.9	815.2
57.5°	4942.3	3912.2	1124.7	899.0	885.5	874.6	854.4	824.6	800.3	785.4	792.2
60°	4682.8	3662.1	1073.4	851.7	849.0	828.7	800.3	786.8	757.0	739.5	735.4
62.5°	3481.0	2486.0	870.6	790.8	789.5	767.8	735.4	720.5	715.1	690.8	690.8
65°	2004.8	1558.7	753.0	740.8	730.0	708.4	675.9	663.8	650.2	642.1	635.4
67.5°	855.7	808.4	684.0	682.7	670.5	643.5	611.0	592.1	574.5	558.3	566.4
70°	620.5	630.0	617.8	611.0	596.2	562.4	534.0	511.0	484.0	473.1	481.3
72.5°	492.1	512.3	529.9	531.3	513.7	474.5	443.4	412.3	382.6	367.7	374.5
75°	373.1	386.6	404.2	408.3	382.6	355.5	325.8	293.3	270.4	252.8	255.5
77.5°	269.0	266.3	282.5	279.8	267.7	248.7	221.7	192.0	166.3	150.1	151.4
80°	183.8	187.9	197.4	196.0	181.1	169.0	148.7	124.4	105.4	91.9	89.2
82.5°	128.4	135.2	143.3	136.5	124.4	112.2	97.3	79.8	64.9	54.1	51.4
85°	46.0	52.7	60.8	64.9	68.9	66.2	55.4	44.6	32.4	27.0	25.7
87.5°	9.5	10.8	12.2	12.2	12.2	10.8	9.5	9.5	8.1	4.1	4.1
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)