

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: P528244

Luminaire Tested: **GALN-SA3B-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14483 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

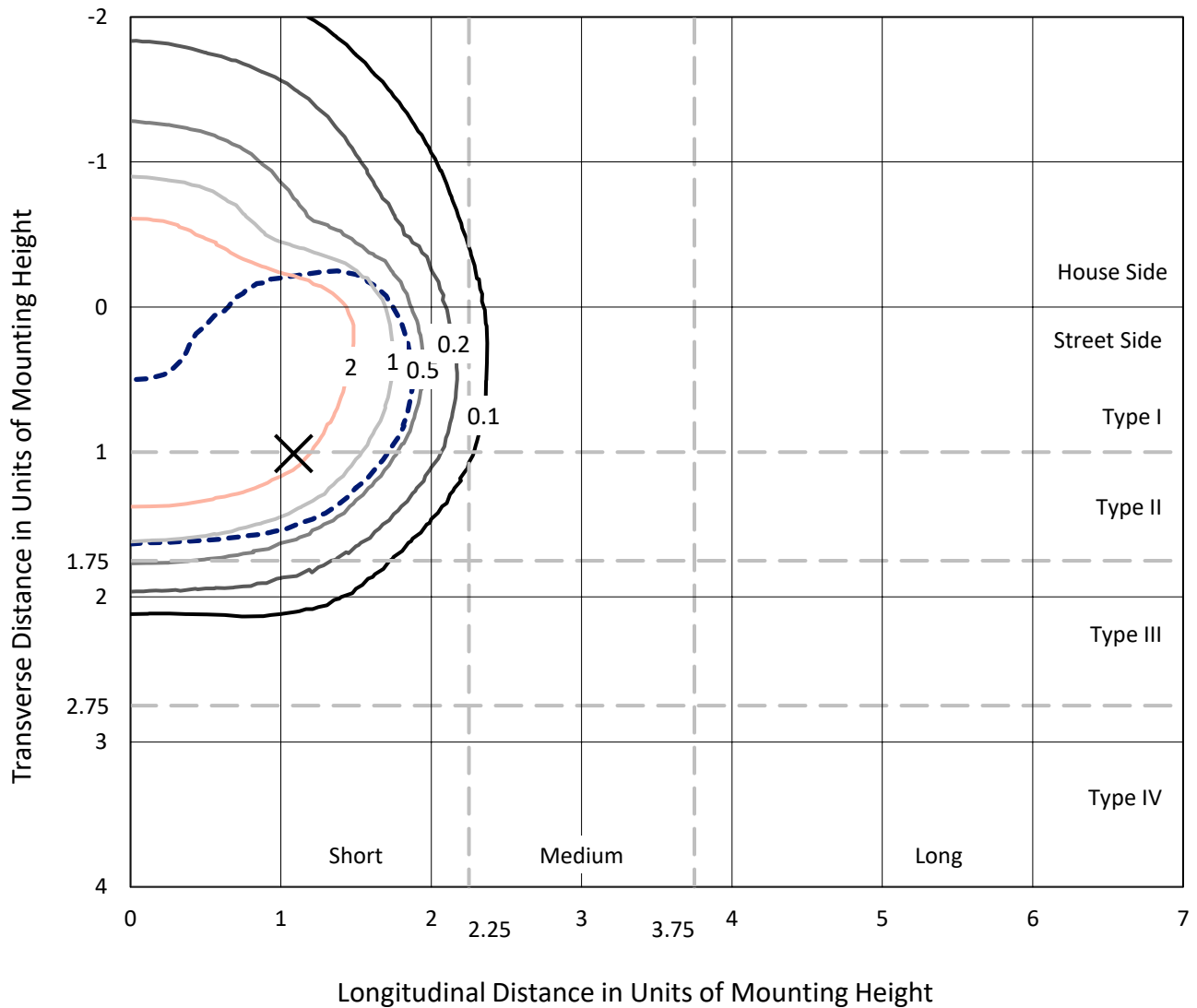
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

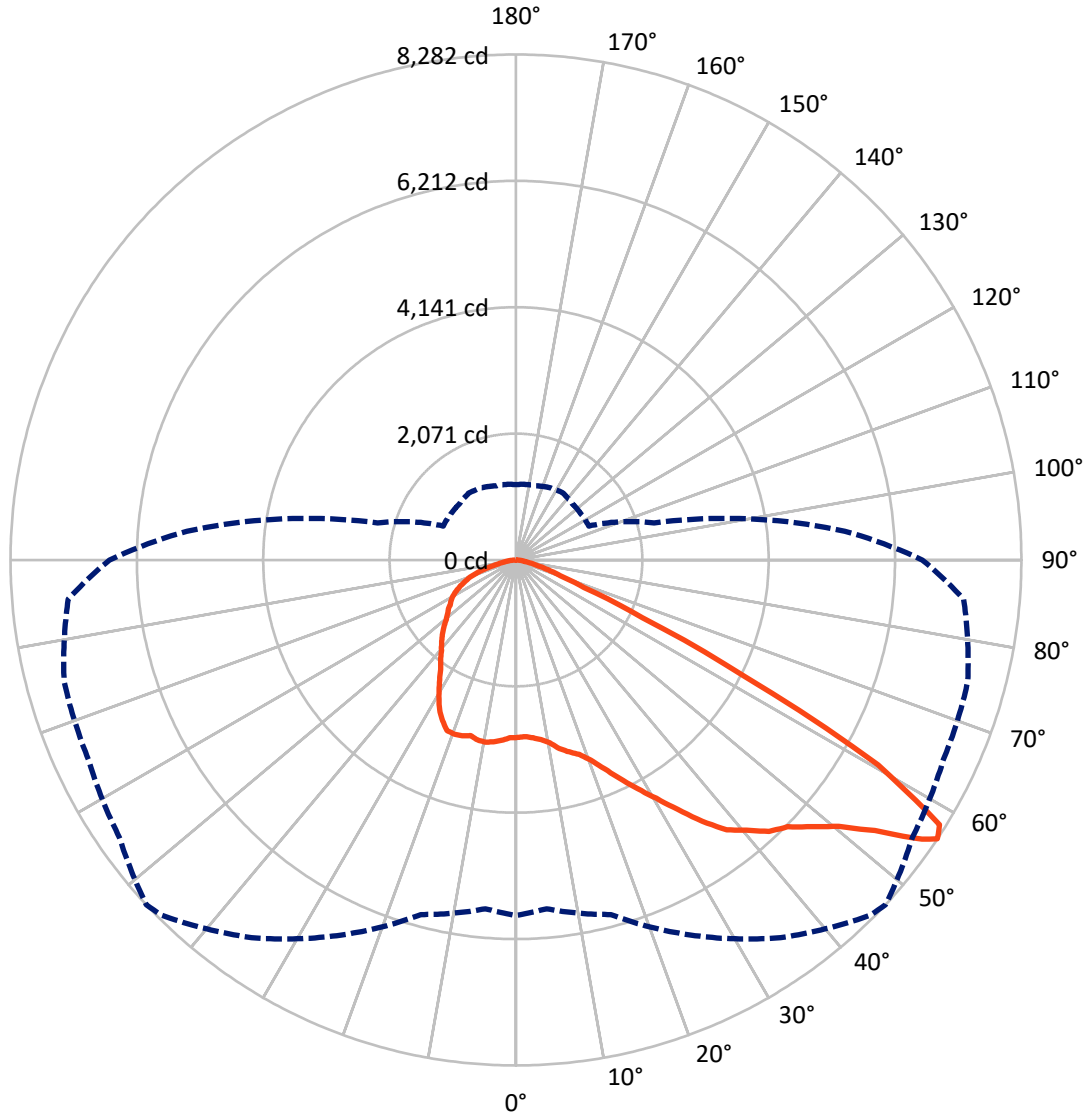
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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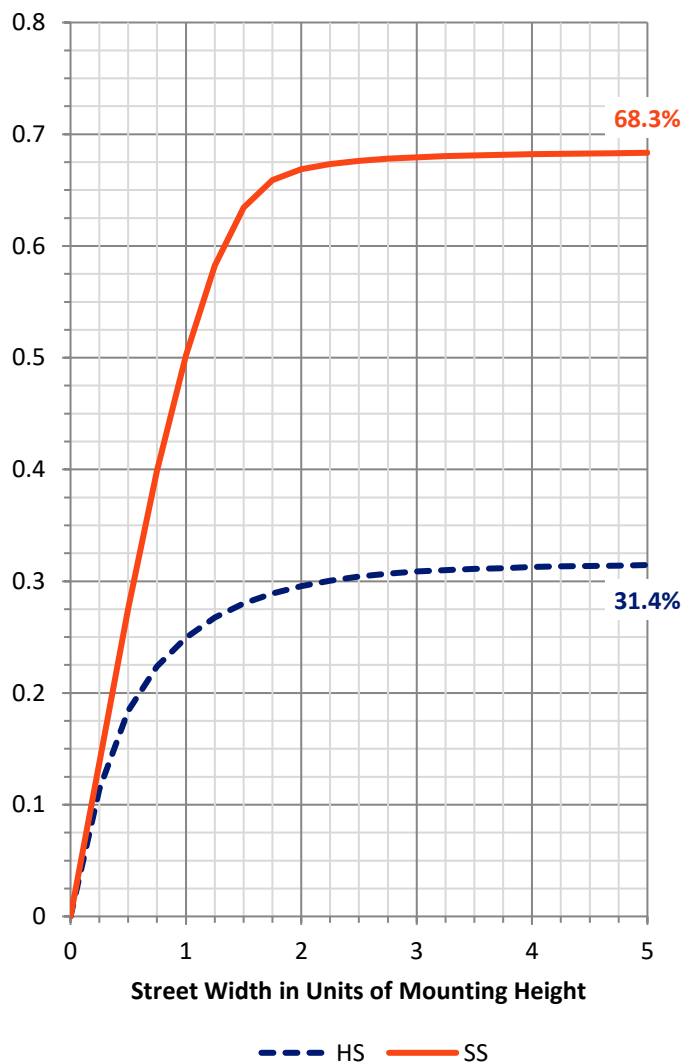
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4589.5	0.0	4589.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9893.5	0.0	9893.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	14483.0	0.0	14483.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	2.0
10°-20°	894.2	6.2
20°-30°	1580.7	10.9
30°-40°	2374.1	16.4
40°-50°	3258.3	22.5
50°-60°	3881.8	26.8
60°-70°	1661.2	11.5
70°-80°	470.1	3.2
80°-90°	79.1	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°	14483.0	100.0
0°-180°	14483.0	100.0

Coefficient of Utilization



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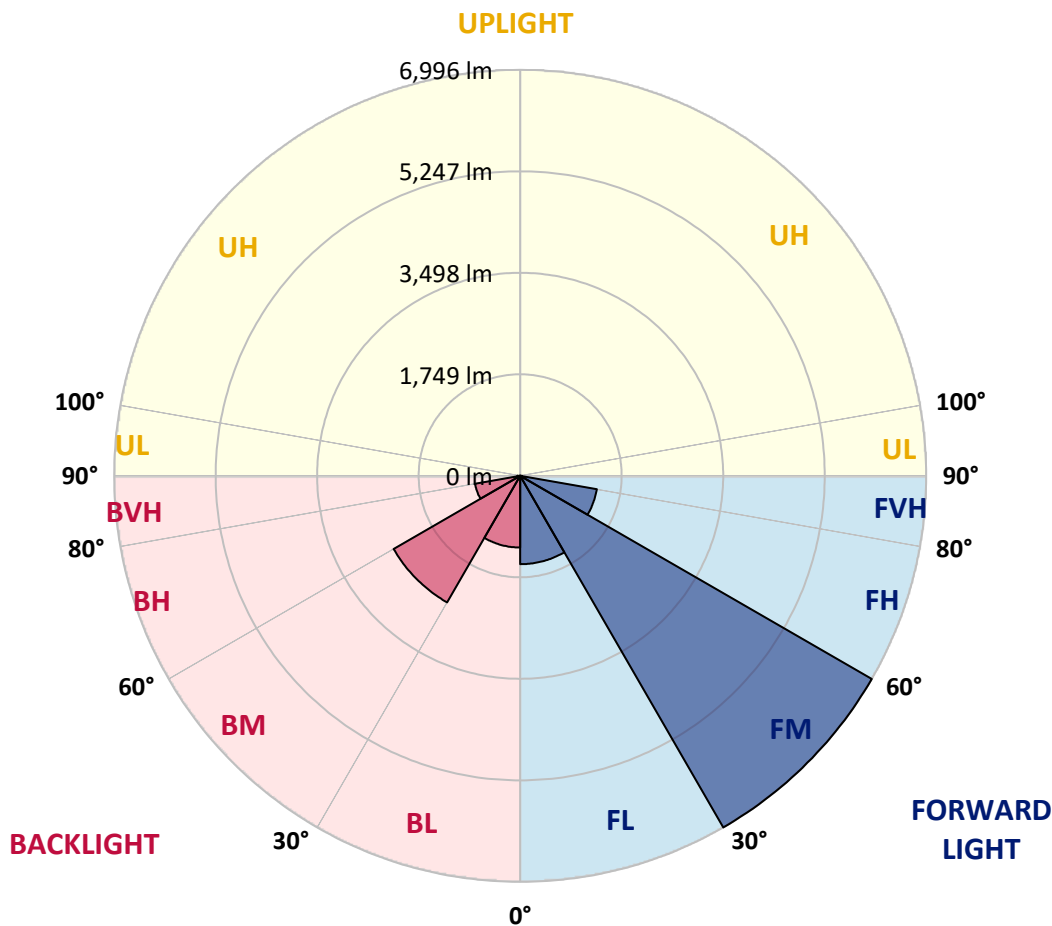
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.7	10.5			
FM (30°-60°)	6995.6	48.3			
FH (60°-80°)	1341.7	9.3			G1/1800
FVH (80°-90°)	33.6	0.2			G1/100
BL (0°-30°)	1235.7	8.5	B3/2500		
BM (30°-60°)	2518.6	17.4	B3/5000		
BH (60°-80°)	789.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	45.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2
2.5°	2898.1	2892.6	2888.9	2918.4	2907.3	2909.2	2898.1	2909.2	2916.6	2900.0	2924.0
5°	2892.6	2909.2	2894.4	2903.7	2927.7	2920.3	2927.7	2949.8	2944.3	2938.7	2931.4
7.5°	2944.3	2946.1	2957.2	2960.9	2968.3	2960.9	2972.0	2992.3	2986.8	2955.4	2959.1
10°	3018.2	3021.9	3023.7	3044.0	3057.0	3058.8	3045.9	3027.4	3025.6	3068.0	3038.5
12.5°	3103.1	3093.9	3116.1	3123.5	3138.2	3154.9	3171.5	3132.7	3156.7	3158.6	3123.5
15°	3226.9	3236.1	3210.3	3210.3	3215.8	3217.7	3263.8	3245.4	3241.7	3221.4	3236.1
17.5°	3411.6	3348.8	3347.0	3321.1	3317.4	3332.2	3348.8	3363.6	3413.5	3372.8	3293.4
20°	3546.4	3561.2	3507.7	3476.3	3481.8	3515.0	3498.4	3564.9	3600.0	3533.5	3455.9
22.5°	3784.7	3734.9	3747.8	3677.6	3683.1	3718.2	3716.4	3784.7	3805.0	3699.8	3587.1
25°	3945.4	3932.5	3943.6	3888.2	3895.6	3923.3	3967.6	4080.3	4047.0	3930.6	3670.2
27.5°	4180.0	4154.1	4144.9	4124.6	4117.2	4191.1	4242.8	4362.9	4338.9	4168.9	3818.0
30°	4420.1	4403.5	4412.7	4329.6	4359.2	4516.2	4531.0	4695.3	4684.3	4385.0	3982.4
32.5°	4586.4	4595.6	4612.2	4566.1	4697.2	4822.8	4872.7	5059.2	5068.5	4756.3	4300.1
35°	4854.2	4822.8	4832.0	4885.6	4946.6	5175.6	5256.9	5380.6	5458.2	5146.0	4604.8
37.5°	5022.3	5055.5	5016.7	5101.7	5260.6	5535.8	5609.7	5737.1	5818.4	5530.2	5020.4
40°	5284.6	5231.0	5258.7	5319.7	5482.2	5840.6	5820.2	5951.4	5977.2	5857.2	5408.3
42.5°	5567.2	5541.3	5502.5	5641.1	5777.8	6038.2	6078.8	6017.9	6149.0	6176.7	5962.5
45°	5905.2	5936.6	5942.1	5945.8	6065.9	6293.1	6237.7	6184.1	6335.6	6536.9	6306.0
47.5°	6219.2	6119.5	6191.5	6291.2	6461.2	6463.0	6527.7	6400.2	6560.9	6740.1	6616.3
50°	6324.5	6276.5	6372.5	6560.9	6823.2	6850.9	6858.3	6677.3	6760.4	6902.6	6723.5
52.5°	6283.9	6267.2	6512.9	6804.7	7188.9	7329.3	7366.3	7142.8	7188.9	7124.3	6959.9
55°	6089.9	6139.8	6387.3	6982.1	7571.3	8005.4	8075.6	7792.9	7499.3	7549.1	7368.1
56°	5823.9	5737.1	6014.2	6780.7	7554.7	8225.2	8282.4	7929.6	7730.1	7665.5	7364.4
57.5°	4941.0	4828.3	5192.2	6101.0	7135.4	8142.1	8184.5	7986.9	7691.4	7560.2	6826.9
60°	2892.6	2948.0	3409.8	4207.7	5504.4	6675.4	6817.7	6961.7	6764.1	6176.7	5081.4
62.5°	1396.4	1361.3	1692.0	2412.3	3354.3	4261.3	4218.8	4623.3	4845.0	4388.7	3208.4
65°	731.5	727.8	923.6	1317.0	1843.4	2238.7	2277.5	2495.4	2800.2	2260.9	1629.1
67.5°	537.5	552.3	650.2	925.4	1185.8	1209.9	1204.3	1313.3	1342.8	1136.0	1001.1
70°	421.1	428.5	500.6	703.7	882.9	790.6	773.9	786.9	873.7	910.6	866.3
72.5°	304.8	312.2	373.1	474.7	552.3	539.4	550.4	622.5	729.6	768.4	722.2
75°	203.2	208.7	242.0	290.0	326.9	352.8	373.1	456.2	556.0	578.1	556.0
77.5°	140.4	145.9	168.1	205.0	208.7	225.3	232.7	271.5	332.5	360.2	345.4
80°	79.4	79.4	90.5	105.3	129.3	151.5	155.2	186.6	214.3	232.7	236.4
82.5°	36.9	38.8	48.0	64.6	85.0	105.3	109.0	129.3	149.6	168.1	173.6
85°	18.5	20.3	27.7	38.8	51.7	62.8	61.0	62.8	66.5	62.8	64.6
87.5°	5.5	5.5	7.4	9.2	7.4	9.2	9.2	11.1	12.9	14.8	16.6
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°	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2	2909.2
2.5°	2925.8	2931.4	2894.4	2929.5	2916.6	2914.7	2940.6	2936.9	2946.1	2942.4	2920.3
5°	2927.7	2914.7	2953.5	2918.4	2935.1	2970.1	2946.1	3001.6	2973.8	2992.3	2951.7
7.5°	2984.9	2988.6	2981.2	2996.0	2988.6	3005.2	2992.3	3005.2	2983.1	2984.9	3021.9
10°	3034.8	3023.7	3036.6	3018.2	3031.1	3025.6	2996.0	2986.8	2994.2	2984.9	3008.9
12.5°	3127.2	3106.8	3097.6	3075.4	3060.7	3005.2	2959.1	2933.2	2968.3	2973.8	2962.8
15°	3221.4	3223.2	3180.7	3130.8	3038.5	2955.4	2966.5	2975.7	2975.7	2990.5	2962.8
17.5°	3280.5	3280.5	3241.7	3141.9	3047.7	2999.7	2988.6	2959.1	2933.2	2929.5	2927.7
20°	3383.9	3352.5	3263.8	3140.1	3044.0	3021.9	2938.7	2868.6	2815.0	2796.5	2794.7
22.5°	3502.1	3422.7	3298.9	3143.8	3038.5	3007.1	2851.9	2746.6	2650.6	2610.0	2615.5
25°	3611.1	3483.6	3319.3	3127.2	3018.2	2866.7	2693.1	2547.2	2447.4	2414.2	2397.5
27.5°	3686.8	3548.3	3319.3	3141.9	2942.4	2709.7	2532.4	2345.8	2259.0	2236.8	2240.5
30°	3788.4	3629.6	3376.5	3110.5	2791.0	2506.5	2294.1	2172.2	2120.5	2102.0	2114.9
32.5°	4026.7	3842.0	3455.9	3034.8	2611.8	2303.3	2131.6	2063.2	1987.5	1950.5	1937.6
35°	4285.3	4043.3	3533.5	2907.3	2410.5	2118.6	2011.5	1948.7	1858.2	1817.6	1824.9
37.5°	4651.0	4301.9	3539.1	2696.8	2192.5	2015.2	1917.3	1819.4	1745.5	1682.7	1664.2
40°	5144.2	4654.7	3526.1	2475.1	2017.0	1893.3	1821.2	1699.3	1616.2	1571.9	1581.1
42.5°	5578.3	5068.5	3472.6	2223.9	1858.2	1810.2	1728.9	1608.8	1527.6	1481.4	1477.7
45°	5944.0	5373.2	3371.0	2009.7	1725.2	1717.8	1623.6	1531.3	1466.6	1424.1	1442.6
47.5°	6282.0	5618.9	3217.7	1795.4	1603.3	1618.1	1527.6	1470.3	1429.7	1390.9	1389.0
50°	6403.9	5615.2	3082.8	1618.1	1505.4	1498.0	1494.3	1433.4	1390.9	1357.6	1372.4
52.5°	6607.1	5678.0	2936.9	1496.2	1416.7	1418.6	1431.5	1387.2	1339.2	1318.8	1337.3
55°	6898.9	5687.2	2615.5	1353.9	1342.8	1355.8	1355.8	1326.2	1285.6	1269.0	1259.7
56°	6660.7	5412.0	2345.8	1317.0	1305.9	1305.9	1341.0	1307.8	1257.9	1245.0	1233.9
57.5°	6143.5	4741.5	1963.5	1272.7	1256.0	1281.9	1300.4	1265.3	1219.1	1200.6	1211.7
60°	4237.3	3208.4	1475.8	1176.6	1176.6	1219.1	1233.9	1182.1	1161.8	1160.0	1145.2
62.5°	2473.3	1869.3	1154.4	1089.8	1093.5	1128.6	1139.7	1110.1	1084.3	1115.7	1130.4
65°	1311.4	1115.7	990.0	997.4	999.3	1027.0	1075.0	1073.2	1071.3	1080.6	1082.4
67.5°	949.4	927.2	899.5	892.2	895.8	916.2	964.2	1001.1	999.3	977.1	960.5
70°	846.0	814.6	798.0	799.8	785.0	809.0	847.8	871.8	829.4	803.5	792.4
72.5°	703.7	694.5	683.4	685.3	655.7	650.2	605.9	605.9	594.8	587.4	600.3
75°	537.5	533.8	539.4	530.1	498.7	465.5	439.6	415.6	378.7	363.9	356.5
77.5°	339.9	351.0	363.9	343.6	330.6	306.6	280.8	256.7	227.2	210.6	210.6
80°	230.9	240.1	249.4	245.7	230.9	208.7	188.4	162.5	142.2	129.3	127.5
82.5°	175.5	182.9	195.8	181.0	166.2	147.8	131.1	112.7	94.2	79.4	79.4
85°	62.8	72.0	79.4	86.8	92.4	94.2	81.3	66.5	53.6	42.5	40.6
87.5°	16.6	18.5	20.3	18.5	18.5	18.5	20.3	18.5	16.6	12.9	12.9
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)