

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: P530764

Luminaire Tested: **GALN-SA6A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21702 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

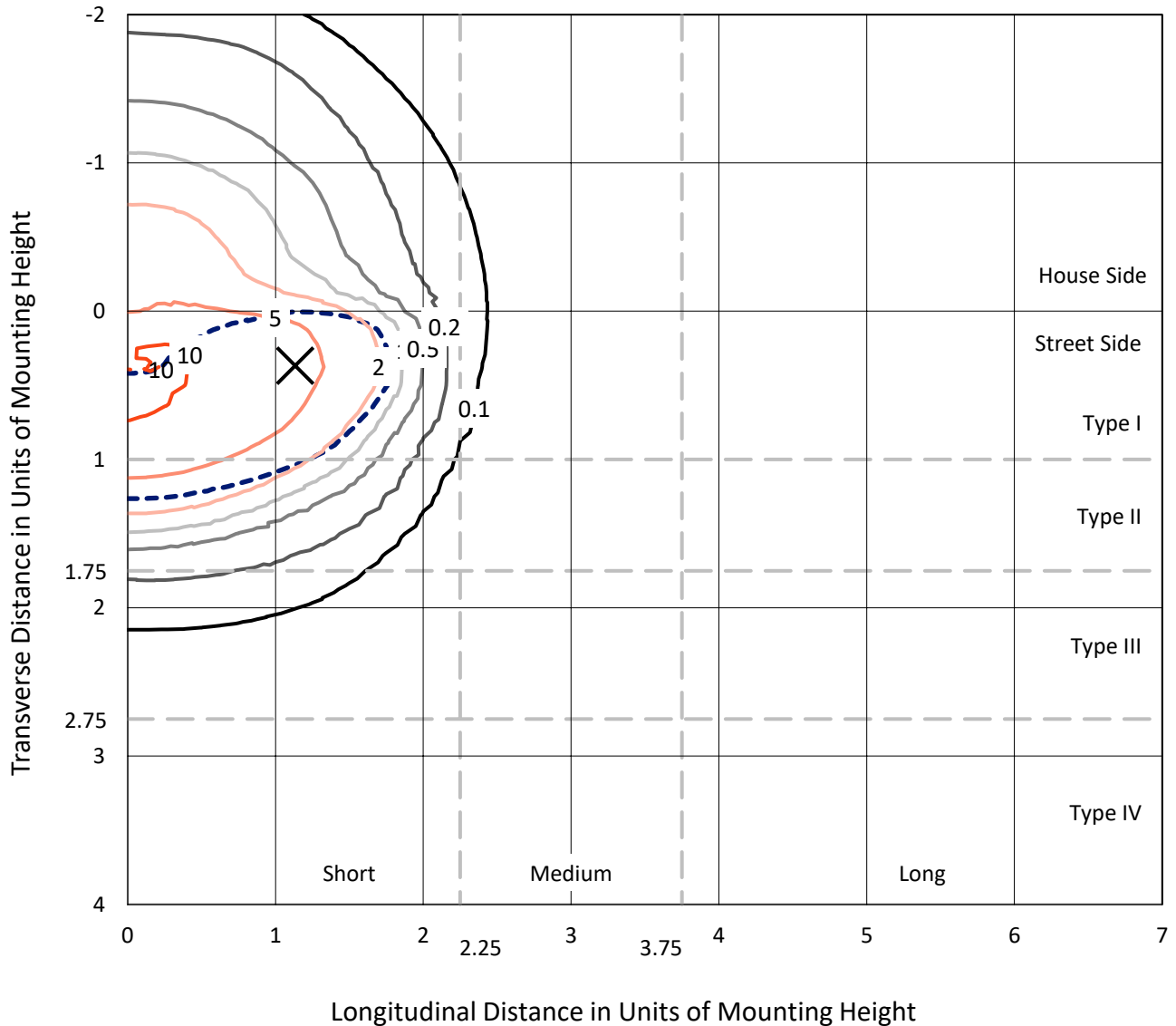
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

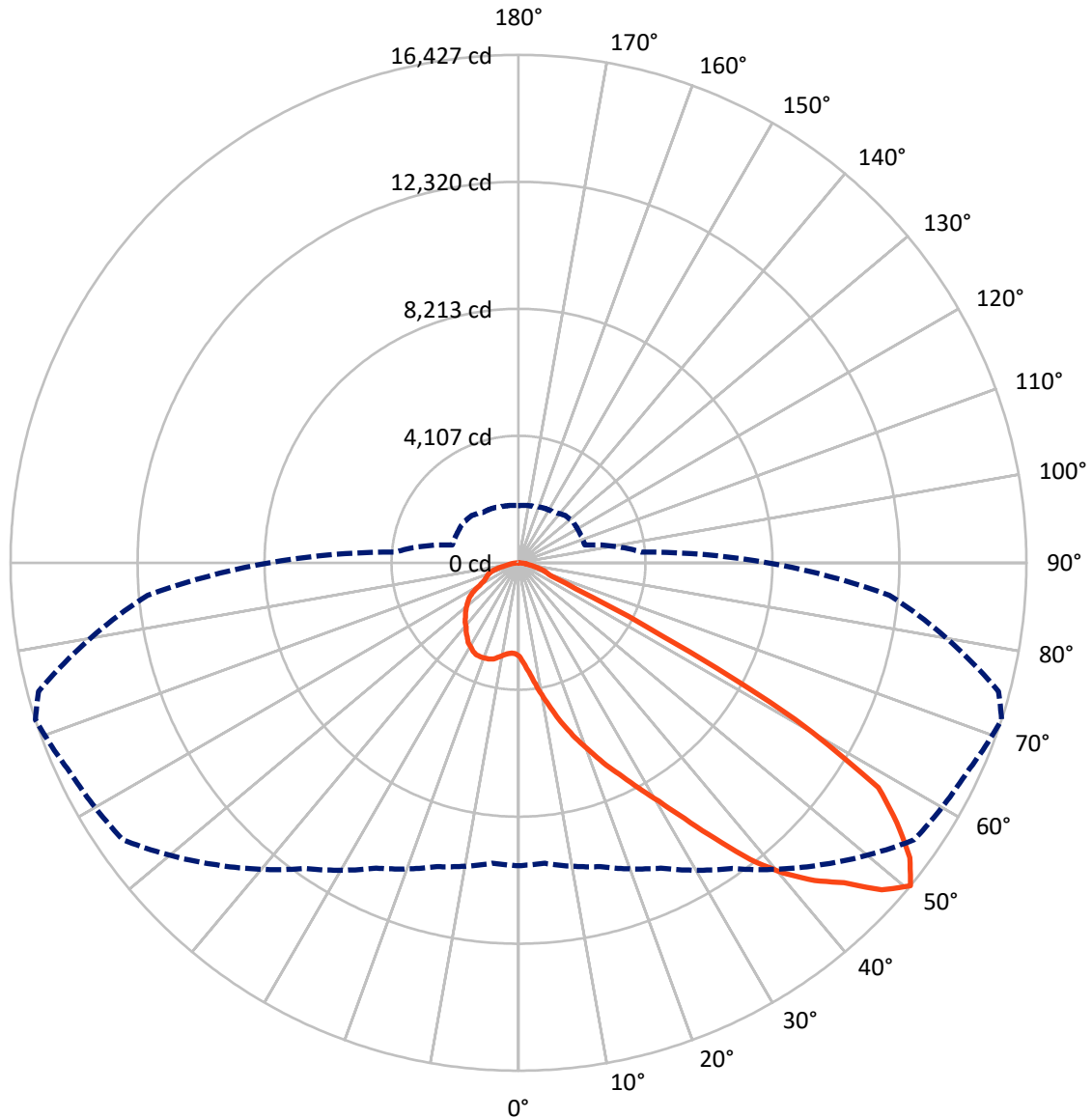
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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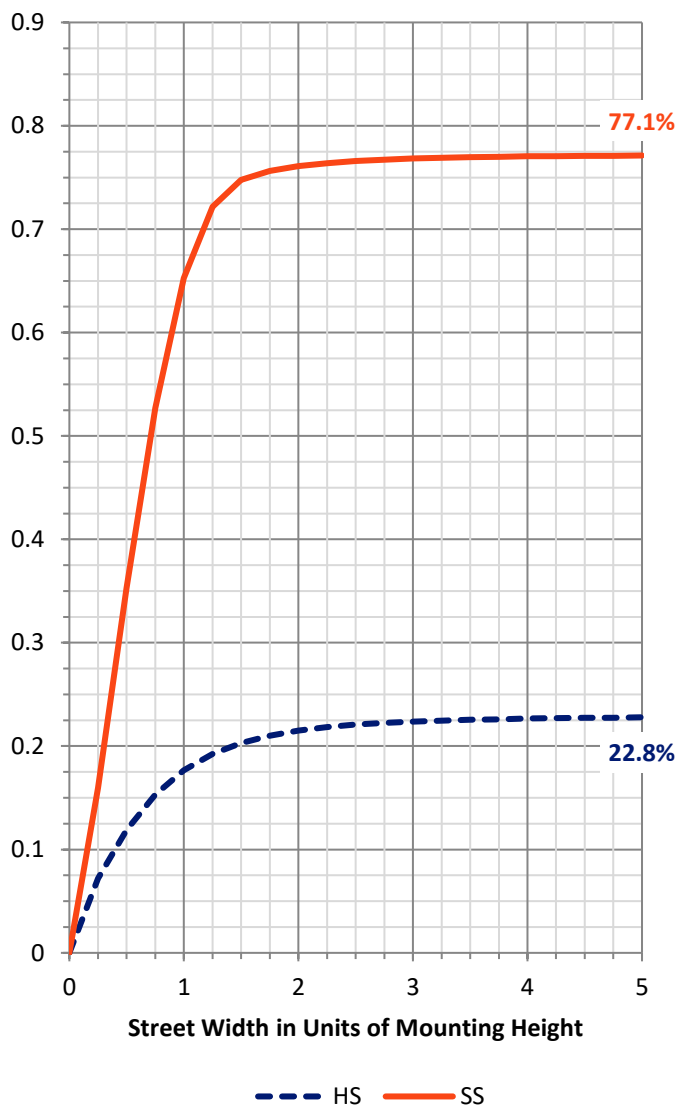
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4972.1	0.0	4972.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16729.9	0.0	16729.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	21702.0	0.0	21702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.6
10°-20°	1328.5	6.1
20°-30°	2575.8	11.9
30°-40°	4267.2	19.7
40°-50°	5970.7	27.5
50°-60°	5037.0	23.2
60°-70°	1535.3	7.1
70°-80°	538.6	2.5
80°-90°	93.6	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°	21702.0	100.0
0°-180°	21702.0	100.0

Coefficient of Utilization



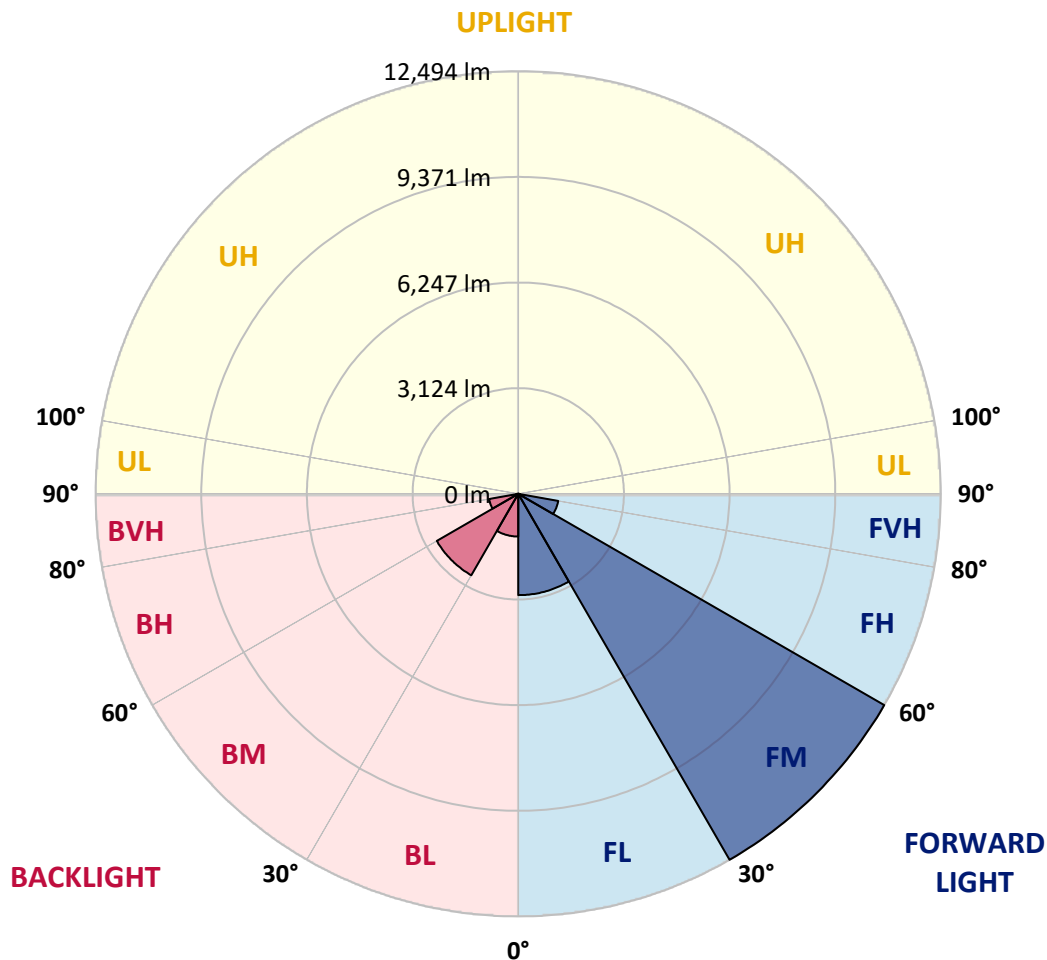
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2995.7	13.8			
FM (30°-60°)	12494.4	57.6			
FH (60°-80°)	1197.9	5.5			G1/1800
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1263.9	5.8	B3/2500		
BM (30°-60°)	2780.5	12.8	B3/5000		
BH (60°-80°)	876.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	51.7	0.2			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°	55°	65°	72°	75°	85°
0°	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1
2.5°	3885.8	3861.6	3789.1	3765.0	3679.0	3523.3	3469.6	3311.1	3244.0	3182.2	3109.7
5°	4914.3	4801.5	4793.5	4656.5	4457.8	4342.3	3998.6	3767.7	3555.5	3448.1	3249.4
7.5°	5569.6	5572.3	5572.3	5459.5	5301.0	5008.3	4699.5	4283.3	3963.7	3805.2	3466.9
10°	6192.6	6138.9	6109.3	6098.6	5991.2	5706.5	5376.2	4860.6	4422.9	4237.6	3630.7
12.5°	6633.0	6587.3	6654.5	6619.6	6541.7	6356.4	6044.9	5456.8	4909.0	4659.2	3893.9
15°	6842.5	6874.7	6928.4	7025.1	6990.2	6920.3	6576.6	6069.1	5432.6	5150.6	4127.5
17.5°	7164.7	7076.1	7140.5	7261.4	7358.1	7325.8	7129.8	6512.2	5950.9	5604.5	4441.7
20°	7390.3	7339.3	7371.5	7511.1	7583.6	7766.2	7664.2	7092.2	6447.7	6082.5	4812.3
22.5°	8034.8	7959.6	7854.9	7876.4	7903.2	8032.1	8056.3	7728.7	7025.1	6638.4	5164.1
25°	8829.7	8759.9	8636.3	8510.1	8432.2	8408.1	8491.3	8228.1	7578.3	7178.1	5542.7
27.5°	9705.1	9587.0	9509.1	9248.6	9039.1	9006.9	8966.6	8824.3	8233.5	7801.2	5969.7
30°	10556.4	10462.4	10357.7	9941.4	9723.9	9689.0	9490.3	9530.6	8945.2	8464.5	6453.1
32.5°	11200.9	11209.0	10970.0	10655.8	10451.7	10266.4	10193.9	10309.3	9858.2	9471.5	6992.8
35°	11721.9	11746.1	11517.8	11233.1	11012.9	11141.8	11109.6	11163.3	10948.5	10475.8	7621.2
37.5°	12229.4	12108.6	11864.2	11727.3	11611.8	11823.9	12097.8	12143.5	12183.8	11627.9	8351.7
40°	12312.7	12323.4	12181.1	12277.8	12132.8	12452.3	13088.8	13029.7	13193.5	12707.4	9143.9
42.5°	12194.5	12218.7	12275.1	12412.0	12761.1	13145.2	14090.4	13848.7	14047.5	13615.1	9914.6
45°	12001.2	11901.8	11971.6	12492.6	13096.8	13950.8	15006.2	14818.2	14753.7	14391.2	10833.0
47.5°	11077.4	11179.4	11396.9	12038.8	12946.4	14090.4	15656.0	15613.1	15806.4	15551.3	11668.2
50°	9796.4	9756.2	10175.1	10897.5	12068.3	13816.5	15621.1	16010.5	16426.7	16072.3	12041.4
52.5°	7336.6	7551.4	7911.3	8808.2	10478.5	12323.4	14858.5	15508.3	15846.7	15771.5	11740.7
55°	4637.7	4702.2	4919.7	5985.8	7489.7	9890.4	12737.0	14243.5	14847.7	15129.7	11464.1
57.5°	2253.1	2132.2	2398.1	3254.7	4326.2	6651.8	9823.3	12406.7	13719.8	14230.1	10862.5
60°	1176.2	1221.9	1326.6	1632.7	2237.0	3453.5	6122.8	8268.4	10274.4	11058.6	8233.5
62.5°	974.8	990.9	1060.7	1213.8	1487.7	1987.2	3125.8	4030.8	5239.3	5945.5	4683.4
65°	827.1	835.2	910.4	1012.4	1187.0	1399.1	1608.6	1683.8	2038.2	2091.9	1665.0
67.5°	690.2	698.2	778.8	875.4	988.2	1044.6	1098.3	1093.0	1133.2	1117.1	1114.5
70°	531.7	539.8	623.0	725.1	781.5	749.2	915.7	953.3	969.4	982.9	1004.3
72.5°	384.0	400.1	464.6	537.1	507.5	582.7	754.6	811.0	832.5	840.5	867.4
75°	279.3	284.7	300.8	279.3	322.3	405.5	531.7	601.5	628.4	636.4	676.7
77.5°	123.5	126.2	128.9	161.1	206.8	252.4	316.9	373.3	410.9	421.6	432.4
80°	64.5	67.1	83.2	110.1	147.7	185.3	230.9	263.2	287.3	290.0	300.8
82.5°	40.3	43.0	59.1	77.9	104.7	137.0	169.2	196.0	214.8	217.5	220.2
85°	18.8	24.2	34.9	48.3	69.8	88.6	91.3	77.9	83.2	85.9	80.6
87.5°	5.4	8.1	10.7	8.1	10.7	10.7	13.4	16.1	16.1	16.1	18.8
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°	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1	3021.1
2.5°	3069.4	3045.3	2951.3	2916.4	2825.1	2841.2	2792.8	2790.2	2779.4	2776.7	2774.0
5°	3144.6	3069.4	2956.7	2870.7	2819.7	2814.3	2779.4	2779.4	2790.2	2798.2	2779.4
7.5°	3268.2	3182.2	2991.6	2911.0	2865.3	2857.3	2833.1	2814.3	2838.5	2830.4	2809.0
10°	3410.5	3260.1	3058.7	2988.9	2913.7	2894.9	2894.9	2902.9	2862.7	2876.1	2854.6
12.5°	3568.9	3367.5	3144.6	3064.1	2975.5	2964.7	2959.3	2900.3	2921.7	2911.0	2857.3
15°	3770.3	3491.1	3254.7	3117.8	3042.6	2994.2	2924.4	2913.7	2900.3	2873.4	2849.2
17.5°	3987.9	3625.3	3305.8	3133.9	3021.1	2986.2	2932.5	2876.1	2835.8	2841.2	2822.4
20°	4173.2	3748.9	3324.6	3150.0	3005.0	2937.9	2854.6	2819.7	2776.7	2774.0	2771.4
22.5°	4393.4	3915.4	3351.4	3107.0	2956.7	2886.8	2830.4	2768.7	2739.1	2701.5	2720.3
25°	4656.5	3979.8	3356.8	3082.9	2921.7	2798.2	2768.7	2701.5	2690.8	2637.1	2647.8
27.5°	4847.2	4014.7	3313.8	3007.7	2841.2	2747.2	2693.5	2645.1	2626.3	2586.1	2575.3
30°	5102.3	4068.4	3222.5	2913.7	2760.6	2655.9	2623.7	2612.9	2559.2	2516.2	2510.9
32.5°	5392.3	4103.3	3163.4	2817.0	2677.4	2596.8	2612.9	2561.9	2494.8	2457.2	2446.4
35°	5623.3	4116.8	3015.7	2706.9	2621.0	2570.0	2551.2	2540.4	2443.7	2408.8	2382.0
37.5°	5975.1	4087.2	2892.2	2629.0	2559.2	2540.4	2524.3	2451.8	2341.7	2290.7	2253.1
40°	6385.9	4079.2	2733.8	2518.9	2500.1	2521.6	2473.3	2360.5	2207.4	2151.0	2124.2
42.5°	6780.7	4135.6	2634.4	2459.8	2435.7	2443.7	2376.6	2207.4	2132.2	2100.0	2057.0
45°	7441.3	4253.7	2470.6	2368.5	2357.8	2352.4	2271.9	2094.6	2051.7	2011.4	2003.3
47.5°	8037.5	4175.8	2365.9	2274.6	2285.3	2255.8	2083.9	2027.5	1979.2	1938.9	1925.4
50°	8072.4	3990.5	2218.2	2202.0	2204.7	2153.7	1989.9	1952.3	1890.5	1863.7	1844.9
52.5°	7889.8	3687.1	2081.2	2086.6	2094.6	2011.4	1874.4	1847.6	1796.5	1759.0	1748.2
55°	7376.9	3214.5	1946.9	1968.4	1989.9	1831.5	1788.5	1721.4	1681.1	1627.4	1630.1
57.5°	6498.7	2588.7	1759.0	1793.9	1839.5	1665.0	1632.7	1549.5	1490.4	1447.4	1442.1
60°	4355.8	1842.2	1477.0	1490.4	1592.5	1522.6	1520.0	1436.7	1356.1	1318.5	1297.1
62.5°	2570.0	1407.2	1275.6	1262.1	1259.5	1299.7	1366.9	1337.3	1232.6	1160.1	1181.6
65°	1345.4	1216.5	1187.0	1141.3	1114.5	1103.7	1154.7	1168.2	1098.3	1020.5	1015.1
67.5°	1130.6	1130.6	1106.4	1090.3	1052.7	1007.0	974.8	931.8	921.1	899.6	872.8
70°	1028.5	1055.4	1047.3	1009.7	977.5	926.5	843.2	773.4	706.3	682.1	698.2
72.5°	896.9	923.8	923.8	905.0	862.0	784.1	703.6	623.0	566.6	523.7	518.3
75°	690.2	703.6	735.8	714.3	657.9	609.6	526.3	443.1	389.4	349.1	341.0
77.5°	440.4	461.9	461.9	459.2	418.9	373.3	319.6	260.5	220.2	190.7	182.6
80°	292.7	306.1	316.9	306.1	279.3	244.4	204.1	163.8	134.3	110.1	104.7
82.5°	214.8	230.9	239.0	228.3	201.4	174.6	145.0	115.5	85.9	67.1	61.8
85°	83.2	85.9	96.7	115.5	112.8	110.1	88.6	64.5	48.3	34.9	32.2
87.5°	21.5	18.8	21.5	21.5	18.8	16.1	16.1	16.1	16.1	8.1	10.7
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)