

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: P533572

Luminaire Tested: **GALN-SA9A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533572
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-SA9A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 33178 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

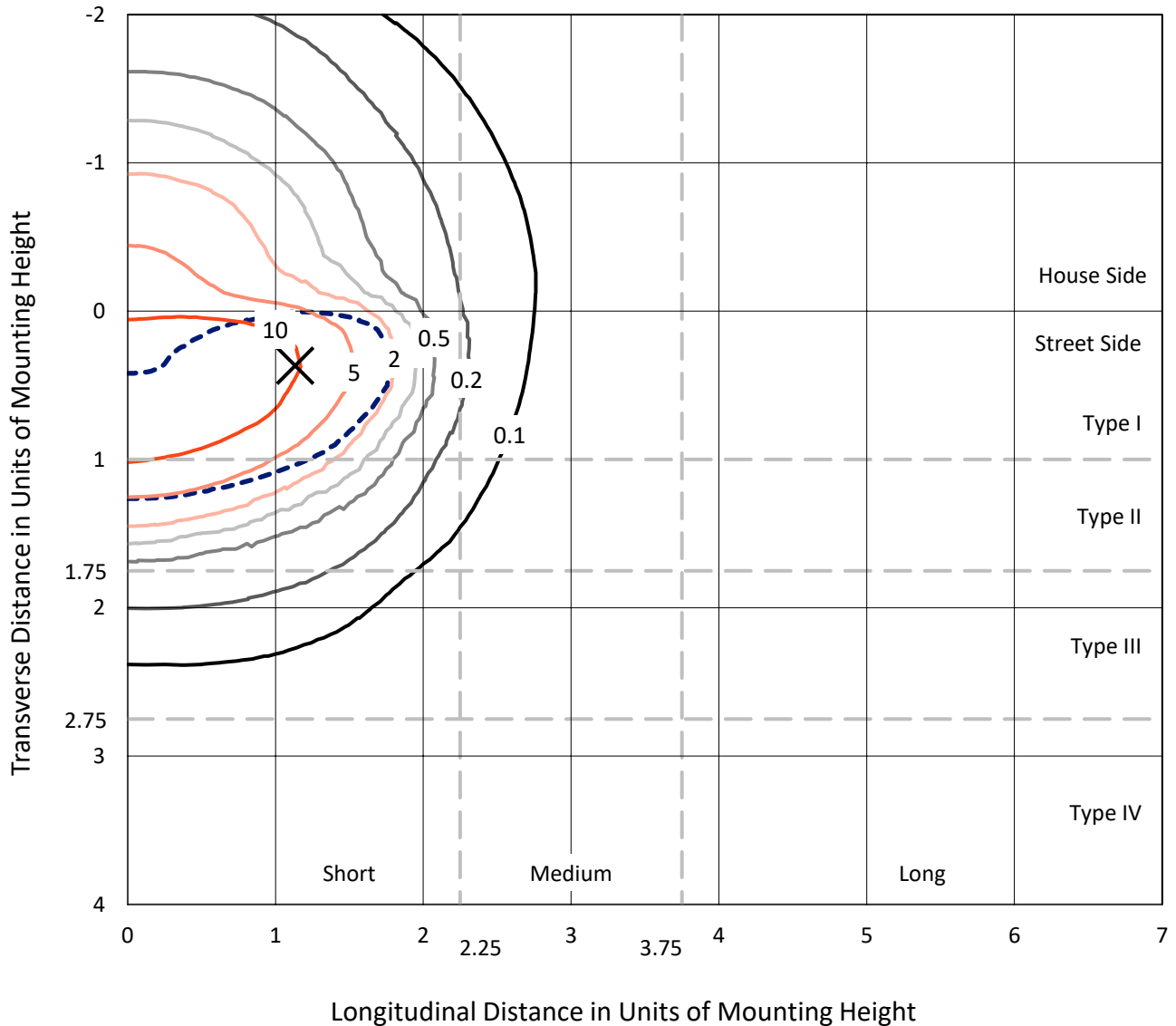
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

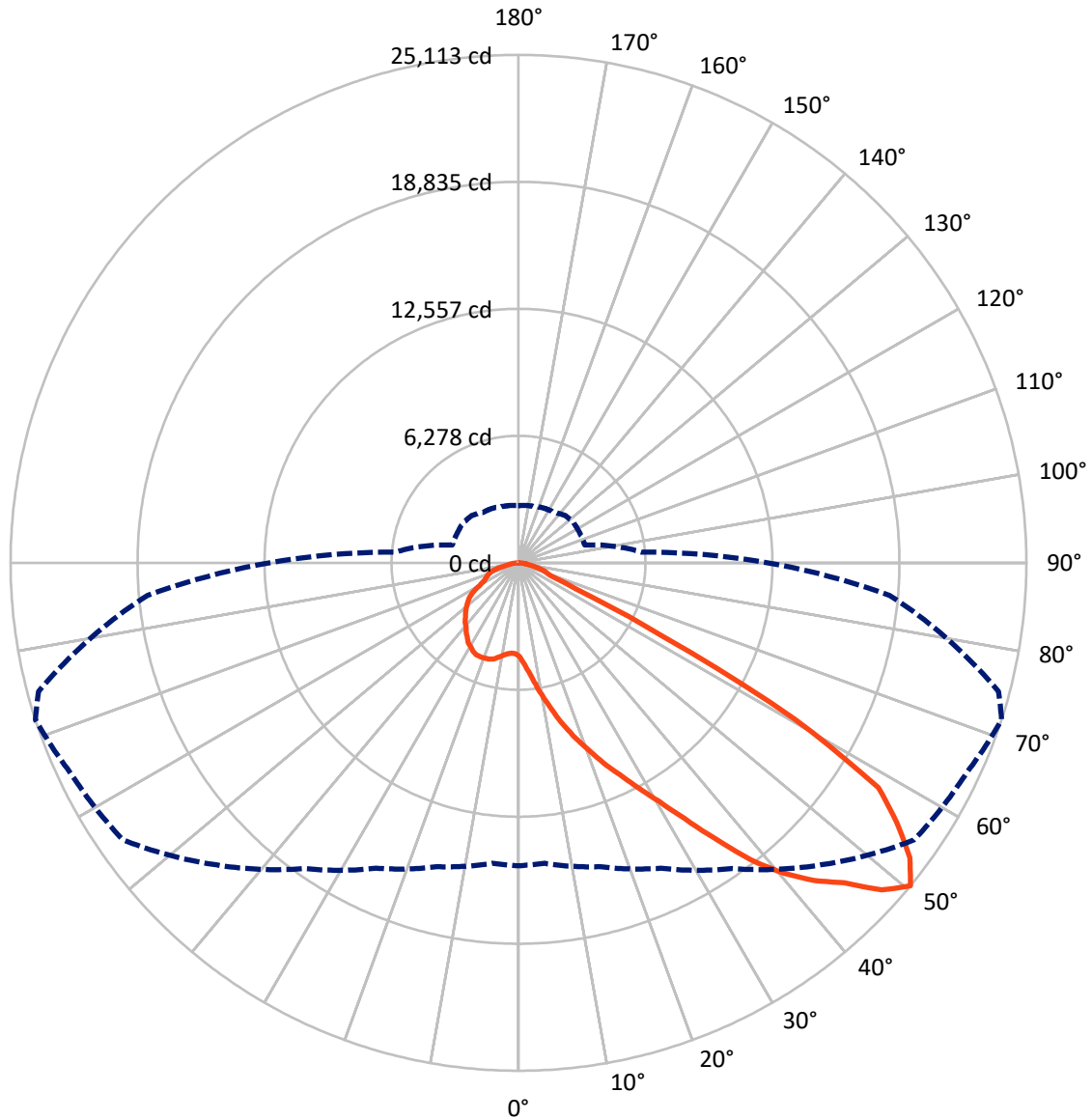
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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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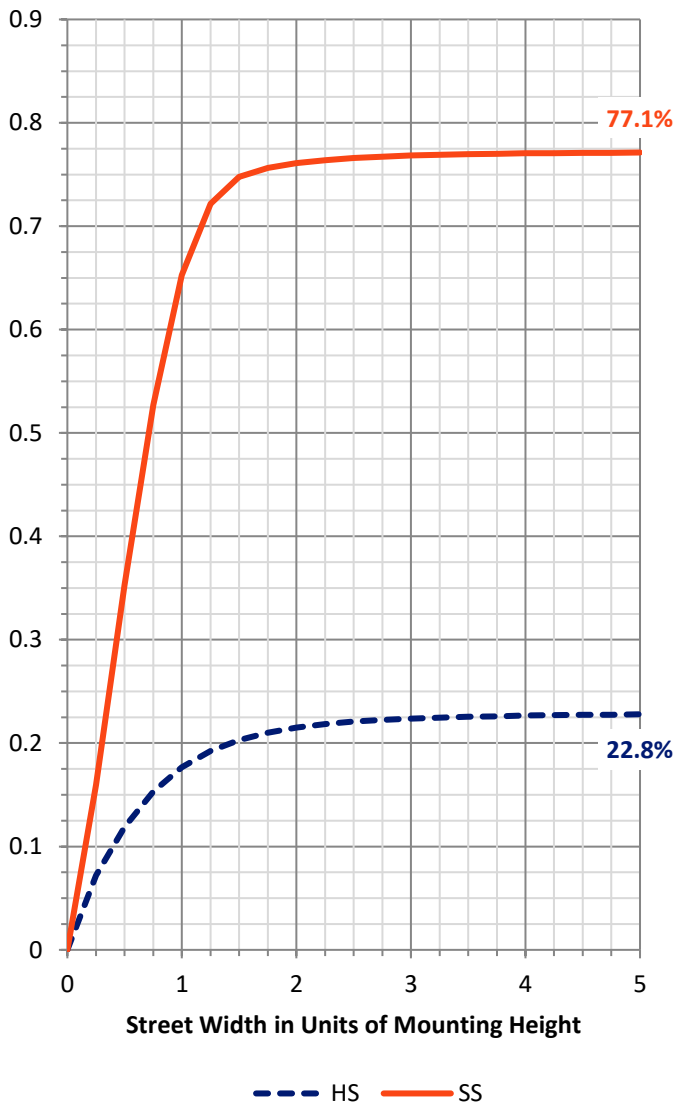
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7601.3	0.0	7601.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	25576.7	0.0	25576.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	33178.0	0.0	33178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.3	1.6
10°-20°	2030.9	6.1
20°-30°	3937.8	11.9
30°-40°	6523.6	19.7
40°-50°	9128.0	27.5
50°-60°	7700.6	23.2
60°-70°	2347.1	7.1
70°-80°	823.4	2.5
80°-90°	143.2	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°	33178.0	100.0
0°-180°	33178.0	100.0

Coefficient of Utilization



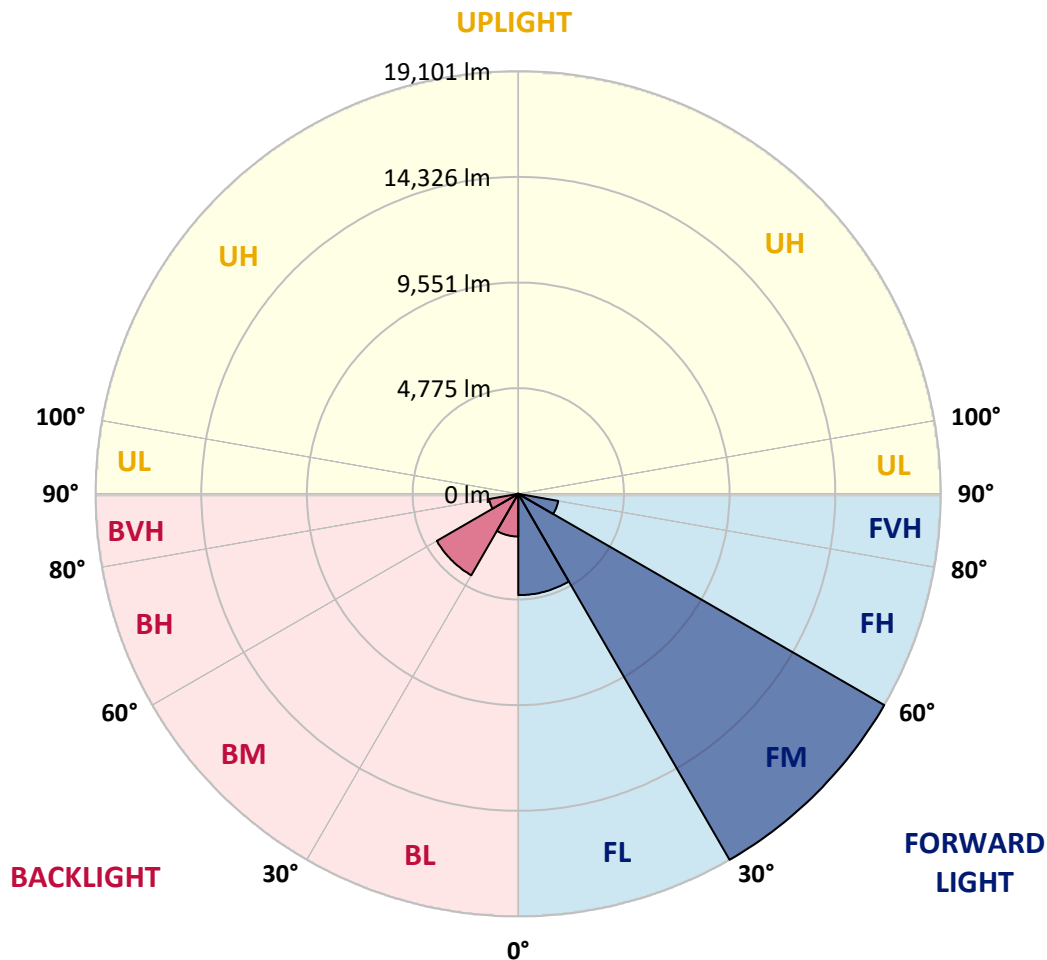
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4579.8	13.8			
FM (30°-60°)	19101.5	57.6			
FH (60°-80°)	1831.4	5.5			G2/5000
FVH (80°-90°)	64.1	0.2			G1/100
BL (0°-30°)	1932.3	5.8	B3/2500		
BM (30°-60°)	4250.8	12.8	B3/5000		
BH (60°-80°)	1339.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	79.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7
2.5°	5940.6	5903.7	5792.8	5755.9	5624.5	5386.4	5304.3	5062.1	4959.4	4865.0	4754.1
5°	7513.0	7340.6	7328.3	7118.9	6815.1	6638.6	6113.1	5760.0	5435.7	5271.4	4967.6
7.5°	8514.8	8518.9	8518.9	8346.4	8104.2	7656.7	7184.6	6548.2	6059.7	5817.5	5300.2
10°	9467.2	9385.1	9340.0	9323.5	9159.3	8724.1	8219.2	7430.9	6761.7	6478.4	5550.6
12.5°	10140.5	10070.7	10173.4	10120.0	10000.9	9717.7	9241.4	8342.3	7504.8	7123.0	5952.9
15°	10460.8	10510.0	10592.1	10739.9	10686.6	10579.8	10054.3	9278.4	8305.4	7874.3	6310.1
17.5°	10953.4	10817.9	10916.5	11101.2	11249.0	11199.7	10900.0	9955.8	9097.7	8568.1	6790.5
20°	11298.3	11220.3	11269.5	11483.0	11593.9	11873.0	11717.0	10842.6	9857.2	9298.9	7357.0
22.5°	12283.6	12168.6	12008.5	12041.4	12082.4	12279.5	12316.4	11815.6	10739.9	10148.7	7894.8
25°	13498.8	13392.1	13203.2	13010.3	12891.2	12854.2	12981.5	12579.2	11585.7	10973.9	8473.7
27.5°	14837.2	14656.5	14537.5	14139.3	13819.0	13769.8	13708.2	13490.6	12587.4	11926.4	9126.5
30°	16138.6	15994.9	15834.8	15198.5	14865.9	14812.6	14508.8	14570.3	13675.3	12940.5	9865.5
32.5°	17123.9	17136.3	16770.9	16290.5	15978.5	15695.2	15584.4	15760.9	15071.2	14480.0	10690.7
35°	17920.4	17957.4	17608.4	17173.2	16836.6	17033.6	16984.4	17066.5	16738.0	16015.5	11651.3
37.5°	18696.3	18511.6	18138.0	17928.6	17752.1	18076.4	18495.2	18565.0	18626.5	17776.7	12768.0
40°	18823.6	18840.0	18622.4	18770.2	18548.5	19037.1	20010.1	19919.8	20170.2	19427.1	13979.1
42.5°	18643.0	18679.9	18766.1	18975.5	19509.2	20096.3	21541.4	21171.9	21475.7	20814.8	15157.4
45°	18347.4	18195.5	18302.2	19098.7	20022.4	21327.9	22941.4	22654.0	22555.5	22001.2	16561.5
47.5°	16935.1	17091.1	17423.6	18404.8	19792.5	21541.4	23934.9	23869.2	24164.8	23774.8	17838.3
50°	14976.8	14915.2	15555.6	16660.0	18450.0	21122.7	23881.6	24476.8	25113.2	24571.3	18409.0
52.5°	11216.2	11544.6	12094.7	13466.0	16019.6	18840.0	22715.6	23709.1	24226.4	24111.5	17949.1
55°	7090.2	7188.7	7521.2	9151.1	11450.2	15120.5	19472.3	21775.4	22699.2	23130.3	17526.3
57.5°	3444.5	3259.7	3666.2	4975.8	6613.9	10169.3	15017.8	18967.3	20974.9	21754.9	16606.7
60°	1798.2	1868.0	2028.1	2496.1	3419.9	5279.6	9360.5	12640.8	15707.6	16906.4	12587.4
62.5°	1490.3	1514.9	1621.7	1855.7	2274.4	3038.1	4778.8	6162.3	8009.8	9089.5	7160.0
65°	1264.5	1276.8	1391.8	1547.8	1814.6	2139.0	2459.2	2574.1	3116.1	3198.2	2545.4
67.5°	1055.1	1067.4	1190.6	1338.4	1510.8	1597.0	1679.1	1670.9	1732.5	1707.9	1703.8
70°	812.9	825.2	952.5	1108.5	1194.7	1145.4	1400.0	1457.4	1482.1	1502.6	1535.4
72.5°	587.1	611.7	710.2	821.1	775.9	890.9	1153.6	1239.9	1272.7	1285.0	1326.1
75°	427.0	435.2	459.8	427.0	492.7	619.9	812.9	919.6	960.7	973.0	1034.6
77.5°	188.9	193.0	197.1	246.3	316.1	385.9	484.4	570.7	628.1	644.6	661.0
80°	98.5	102.6	127.3	168.3	225.8	283.3	353.1	402.3	439.3	443.4	459.8
82.5°	61.6	65.7	90.3	119.1	160.1	209.4	258.6	299.7	328.4	332.5	336.6
85°	28.7	36.9	53.4	73.9	106.7	135.5	139.6	119.1	127.3	131.4	123.2
87.5°	8.2	12.3	16.4	12.3	16.4	16.4	20.5	24.6	24.6	24.6	28.7
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°	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7	4618.7
2.5°	4692.6	4655.6	4511.9	4458.5	4319.0	4343.6	4269.7	4265.6	4249.2	4245.1	4241.0
5°	4807.5	4692.6	4520.1	4388.8	4310.7	4302.5	4249.2	4249.2	4265.6	4277.9	4249.2
7.5°	4996.4	4865.0	4573.5	4450.3	4380.5	4368.2	4331.3	4302.5	4339.5	4327.2	4294.3
10°	5214.0	4984.0	4676.1	4569.4	4454.4	4425.7	4425.7	4438.0	4376.4	4397.0	4364.1
12.5°	5456.2	5148.3	4807.5	4684.3	4548.9	4532.4	4524.2	4433.9	4466.8	4450.3	4368.2
15°	5764.1	5337.1	4975.8	4766.5	4651.5	4577.6	4470.9	4454.4	4433.9	4392.9	4355.9
17.5°	6096.6	5542.4	5053.8	4791.1	4618.7	4565.3	4483.2	4397.0	4335.4	4343.6	4314.9
20°	6379.9	5731.2	5082.6	4815.7	4594.0	4491.4	4364.1	4310.7	4245.1	4241.0	4236.9
22.5°	6716.6	5985.8	5123.6	4750.0	4520.1	4413.4	4327.2	4232.7	4187.6	4130.1	4158.8
25°	7118.9	6084.3	5131.8	4713.1	4466.8	4277.9	4232.7	4130.1	4113.7	4031.6	4048.0
27.5°	7410.4	6137.7	5066.2	4598.1	4343.6	4199.9	4117.8	4043.9	4015.2	3953.6	3937.2
30°	7800.4	6219.8	4926.6	4454.4	4220.4	4060.3	4011.1	3994.6	3912.5	3846.8	3838.6
32.5°	8243.8	6273.2	4836.3	4306.6	4093.2	3970.0	3994.6	3916.6	3814.0	3756.5	3740.1
35°	8596.9	6293.7	4610.4	4138.3	4006.9	3928.9	3900.2	3883.8	3736.0	3682.6	3641.6
37.5°	9134.7	6248.5	4421.6	4019.3	3912.5	3883.8	3859.1	3748.3	3580.0	3502.0	3444.5
40°	9762.8	6236.2	4179.4	3850.9	3822.2	3855.0	3781.1	3608.7	3374.7	3288.5	3247.4
42.5°	10366.3	6322.4	4027.5	3760.6	3723.7	3736.0	3633.3	3374.7	3259.7	3210.5	3144.8
45°	11376.3	6503.1	3777.0	3621.0	3604.6	3596.4	3473.2	3202.3	3136.6	3075.0	3062.7
47.5°	12287.7	6384.0	3616.9	3477.3	3493.8	3448.6	3185.8	3099.6	3025.7	2964.2	2943.6
50°	12341.1	6100.7	3391.1	3366.5	3370.6	3292.6	3042.2	2984.7	2890.3	2849.2	2820.5
52.5°	12061.9	5636.8	3181.7	3190.0	3202.3	3075.0	2865.6	2824.6	2746.6	2689.1	2672.7
55°	11277.7	4914.3	2976.5	3009.3	3042.2	2799.9	2734.2	2631.6	2570.0	2487.9	2492.0
57.5°	9935.3	3957.7	2689.1	2742.5	2812.3	2545.4	2496.1	2368.9	2278.5	2212.9	2204.6
60°	6659.1	2816.4	2258.0	2278.5	2434.5	2327.8	2323.7	2196.4	2073.3	2015.8	1982.9
62.5°	3928.9	2151.3	1950.1	1929.6	1925.5	1987.1	2089.7	2044.5	1884.4	1773.6	1806.4
65°	2056.8	1859.8	1814.6	1744.8	1703.8	1687.4	1765.4	1785.9	1679.1	1560.1	1551.9
67.5°	1728.4	1728.4	1691.5	1666.8	1609.3	1539.6	1490.3	1424.6	1408.2	1375.3	1334.3
70°	1572.4	1613.5	1601.1	1543.7	1494.4	1416.4	1289.1	1182.4	1079.7	1042.8	1067.4
72.5°	1371.2	1412.3	1412.3	1383.5	1317.9	1198.8	1075.6	952.5	866.3	800.6	792.4
75°	1055.1	1075.6	1124.9	1092.1	1005.8	931.9	804.7	677.4	595.3	533.7	521.4
77.5°	673.3	706.1	706.1	702.0	640.5	570.7	488.6	398.2	336.6	291.5	279.2
80°	447.5	468.0	484.4	468.0	427.0	373.6	312.0	250.4	205.3	168.3	160.1
82.5°	328.4	353.1	365.4	349.0	307.9	266.9	221.7	176.5	131.4	102.6	94.4
85°	127.3	131.4	147.8	176.5	172.4	168.3	135.5	98.5	73.9	53.4	49.3
87.5°	32.8	28.7	32.8	32.8	28.7	24.6	24.6	24.6	24.6	12.3	16.4
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)