

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: P527474

Luminaire Tested: **GALN-SA2C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11619 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

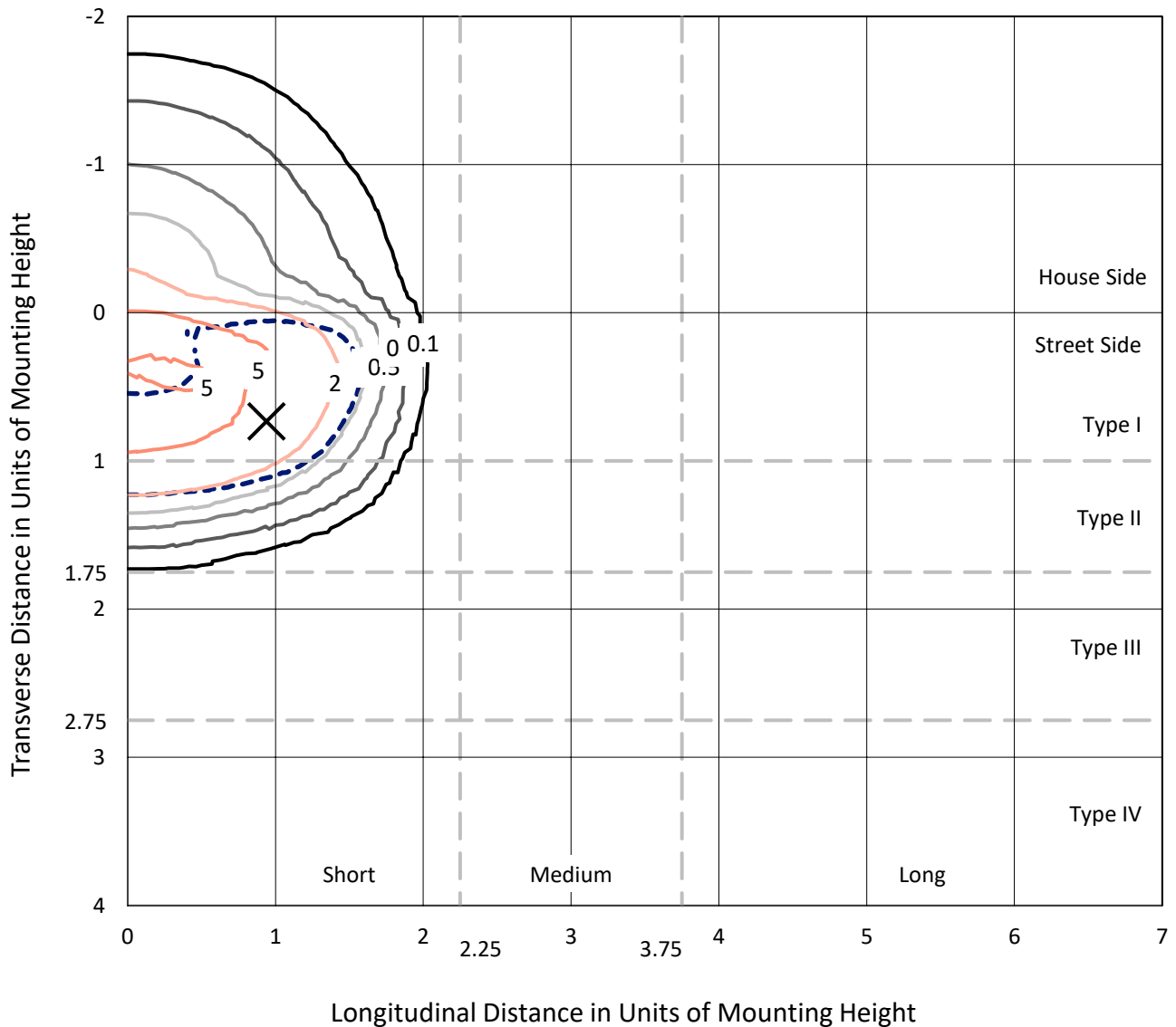
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

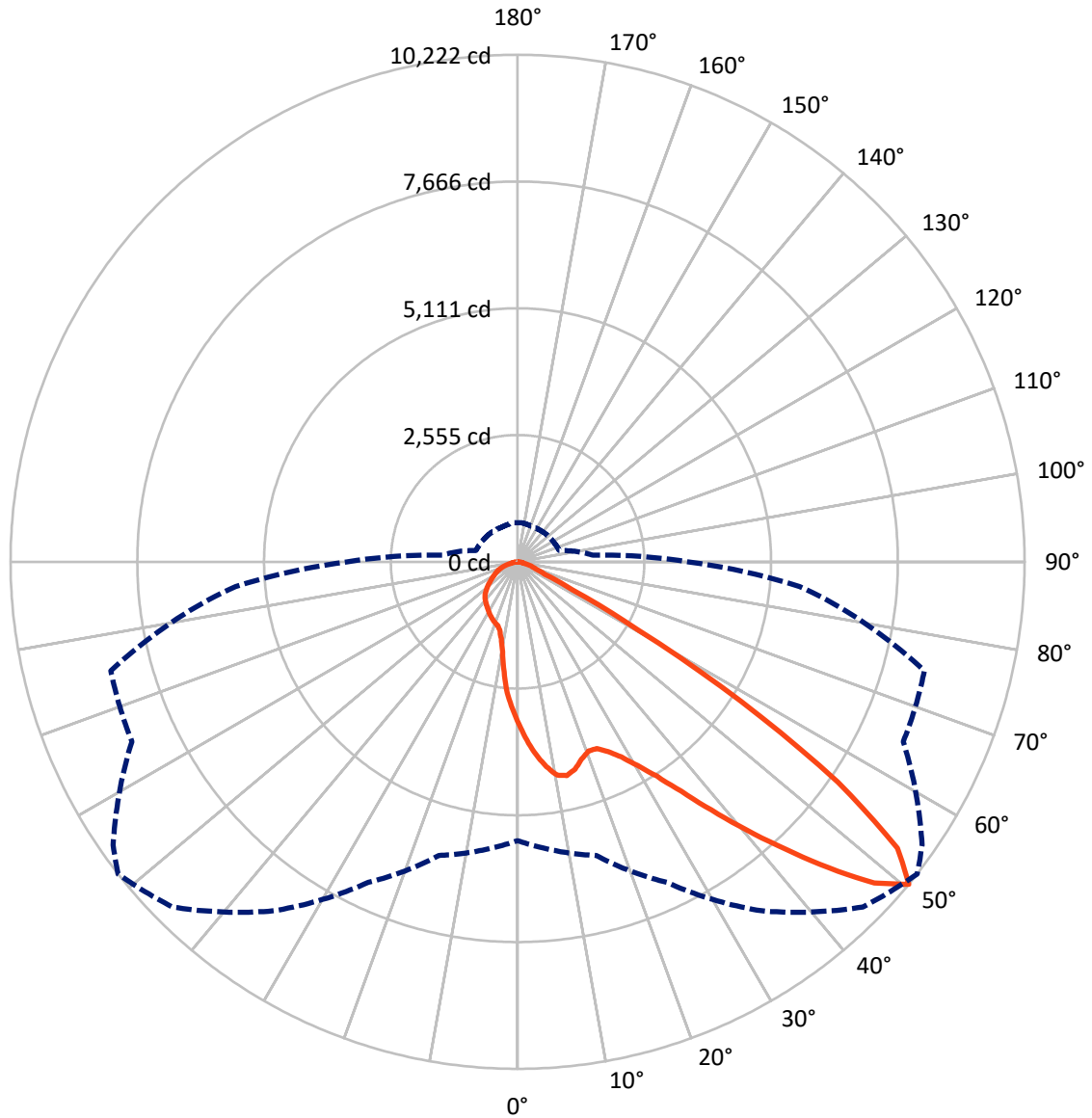
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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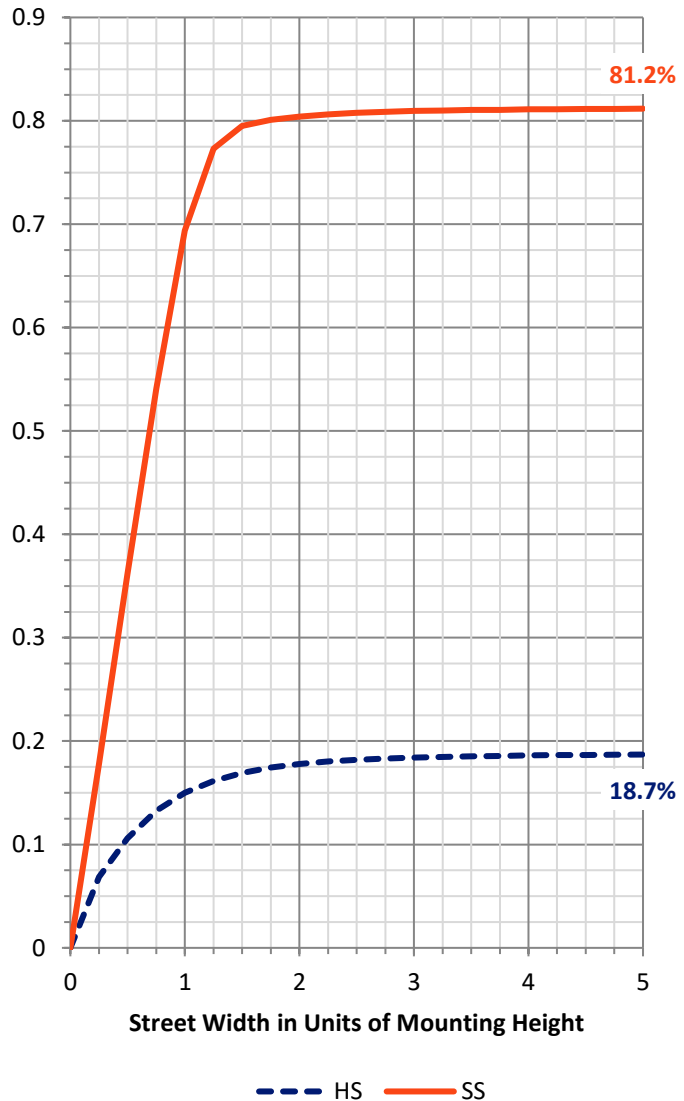
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2184.1	0.0	2184.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9434.9	0.0	9434.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	11619.0	0.0	11619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.9	2.6
10°-20°	809.1	7.0
20°-30°	1362.9	11.7
30°-40°	2287.1	19.7
40°-50°	3498.6	30.1
50°-60°	2550.8	22.0
60°-70°	567.7	4.9
70°-80°	204.7	1.8
80°-90°	36.2	0.3
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°	11619.0	100.0
0°-180°	11619.0	100.0

Coefficient of Utilization



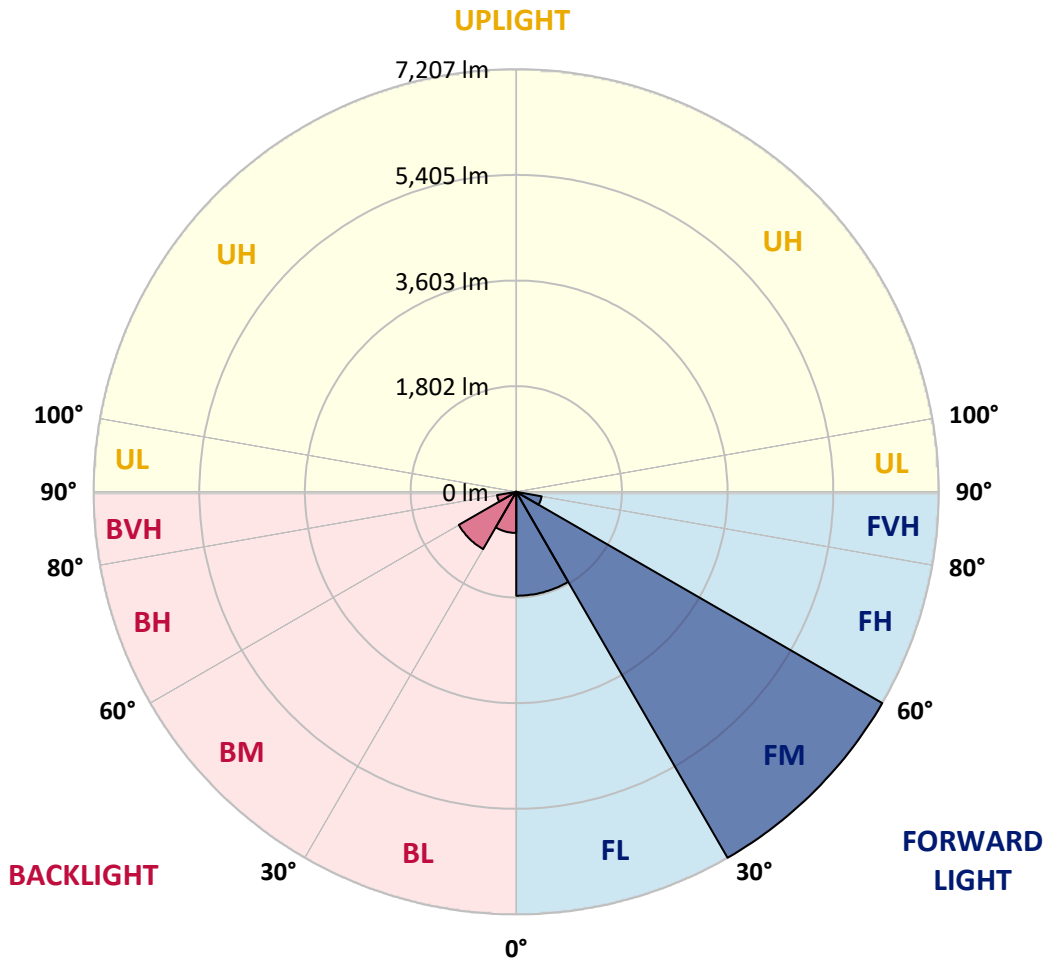
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.3	15.3			
FM (30°-60°)	7206.7	62.0			
FH (60°-80°)	439.7	3.8			G0/660
FVH (80°-90°)	16.2	0.1			G1/100
BL (0°-30°)	701.6	6.0	B2/1000		
BM (30°-60°)	1129.8	9.7	B2/2500		
BH (60°-80°)	332.8	2.9	B1/500		G1/500
BVH (80°-90°)	20.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2
2.5°	3856.3	3782.1	3790.5	3737.3	3679.9	3663.1	3604.3	3548.3	3506.2	3416.6	3334.0
5°	4214.8	4192.4	4158.8	4116.8	4073.4	3966.9	3906.7	3836.7	3682.7	3544.1	3406.8
7.5°	4266.6	4262.4	4280.6	4280.6	4296.0	4255.4	4170.0	4121.0	3957.1	3731.7	3476.8
10°	3902.5	3915.1	4003.3	4118.2	4277.8	4388.4	4374.4	4361.8	4182.6	3874.5	3559.5
12.5°	3612.7	3584.7	3636.5	3734.5	3973.9	4241.4	4422.0	4423.4	4377.2	4102.8	3619.7
15°	3448.8	3468.4	3482.4	3528.7	3709.3	4018.7	4336.6	4430.4	4633.5	4263.8	3714.9
17.5°	3553.9	3488.0	3485.2	3496.4	3588.9	3821.3	4178.4	4339.4	4773.5	4471.0	3832.5
20°	3691.1	3689.7	3650.5	3636.5	3635.1	3842.3	4074.8	4293.2	4847.7	4739.9	3951.5
22.5°	3931.9	3931.9	3867.5	3836.7	3770.9	3940.3	4088.8	4237.2	4970.9	4924.7	4008.9
25°	4335.2	4269.4	4158.8	4083.2	4045.3	4105.6	4237.2	4370.2	5078.7	5120.7	4128.0
27.5°	4707.7	4604.0	4549.4	4419.2	4368.8	4333.8	4454.2	4588.6	5204.8	5426.0	4192.4
30°	5130.5	5112.3	5014.3	4846.3	4721.7	4657.3	4767.9	4900.9	5435.8	5738.3	4340.8
32.5°	5886.7	5721.5	5588.4	5382.6	5179.6	5042.3	5151.5	5239.8	5819.5	6064.5	4503.2
35°	6703.0	6649.8	6420.2	6049.1	5738.3	5615.0	5679.4	5745.3	6266.2	6563.0	4776.3
37.5°	7505.4	7432.6	7243.5	6931.3	6553.2	6302.6	6348.8	6425.8	6767.4	7235.1	5109.5
40°	8082.3	7992.7	7897.5	7851.2	7476.0	7132.9	7106.3	7125.9	7445.2	7865.2	5479.2
42.5°	8124.3	8234.9	8264.3	8450.6	8362.3	8080.9	7917.1	7921.3	8092.1	8488.4	5853.1
45°	8036.1	7933.9	8150.9	8659.2	8950.4	9082.1	8806.2	8771.2	8492.6	8849.6	6039.3
47.5°	7110.5	7138.5	7505.4	8309.1	9150.7	9738.8	9674.4	9558.2	8706.8	8837.0	6009.9
50°	5620.6	5790.1	6130.3	7131.5	8590.6	9842.4	10221.9	9953.0	8579.4	8489.8	5710.3
52.5°	3742.9	3812.9	4036.9	5329.4	6907.5	8797.8	9591.8	9653.4	8461.8	8034.7	5330.8
55°	1666.3	1660.7	1975.8	2783.7	4333.8	6694.6	7837.2	8212.5	8009.5	7571.2	4961.1
57.5°	705.7	729.5	858.4	1202.8	2131.2	4039.7	5309.8	5638.8	6159.7	6217.1	3805.9
60°	477.5	480.3	515.3	602.1	892.0	1897.3	2785.1	3180.0	3552.5	3527.2	2019.2
62.5°	375.3	385.1	411.7	446.7	529.3	861.2	1246.2	1466.1	1489.9	1253.2	765.9
65°	320.7	322.1	348.7	378.1	414.5	501.3	600.7	611.9	618.9	596.5	562.9
67.5°	264.6	267.4	288.5	322.1	355.7	383.7	411.7	425.7	457.9	520.9	512.5
70°	210.0	214.2	232.4	260.4	291.3	308.1	343.1	355.7	385.1	434.1	453.7
72.5°	159.6	161.0	176.4	196.0	224.0	240.8	270.2	284.3	303.9	345.9	364.1
75°	114.8	119.0	130.2	140.0	144.2	155.4	183.4	198.8	226.8	245.0	246.4
77.5°	60.2	63.0	65.8	65.8	79.8	100.8	119.0	127.4	147.0	161.0	154.0
80°	23.8	25.2	32.2	43.4	56.0	72.8	85.4	89.6	106.4	114.8	119.0
82.5°	14.0	15.4	21.0	30.8	40.6	51.8	61.6	65.8	77.0	86.8	89.6
85°	7.0	8.4	12.6	19.6	26.6	32.2	30.8	29.4	29.4	28.0	29.4
87.5°	2.8	2.8	4.2	4.2	4.2	5.6	7.0	7.0	7.0	8.4	8.4
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°	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2	3275.2
2.5°	3279.4	3223.4	3171.6	3076.4	2972.7	2943.3	2822.9	2779.5	2748.7	2712.3	2701.1
5°	3296.2	3222.0	3055.4	2863.5	2710.9	2514.9	2386.0	2247.4	2146.6	2121.4	2114.4
7.5°	3331.2	3203.8	2916.7	2626.9	2314.6	2048.6	1845.5	1736.3	1639.7	1634.1	1624.3
10°	3370.4	3149.2	2765.5	2310.4	1911.4	1664.9	1543.1	1495.5	1471.7	1466.1	1463.3
12.5°	3402.6	3138.0	2596.1	2002.4	1625.7	1477.3	1440.9	1436.7	1446.5	1449.3	1454.9
15°	3416.6	3093.2	2391.6	1726.5	1447.9	1393.3	1408.7	1425.5	1432.5	1450.7	1436.7
17.5°	3443.2	3035.8	2139.6	1508.1	1348.4	1358.3	1384.9	1404.5	1415.7	1428.3	1410.1
20°	3457.2	2983.9	1903.0	1377.9	1313.4	1331.6	1368.1	1383.5	1397.5	1403.1	1382.1
22.5°	3444.6	2877.5	1694.3	1272.8	1279.8	1303.6	1335.8	1352.6	1344.2	1321.8	1309.2
25°	3411.0	2727.7	1477.3	1205.6	1232.2	1274.2	1299.4	1286.8	1271.4	1258.8	1254.6
27.5°	3409.6	2544.3	1320.4	1144.0	1191.6	1249.0	1240.6	1229.4	1236.4	1226.6	1215.4
30°	3416.6	2366.4	1191.6	1109.0	1162.2	1190.2	1200.0	1188.8	1197.2	1179.0	1184.6
32.5°	3380.2	2192.8	1107.6	1068.4	1127.2	1125.8	1158.0	1166.4	1146.8	1109.0	1114.6
35°	3395.6	2052.8	1036.2	1050.2	1088.0	1088.0	1113.2	1103.4	1051.6	1029.2	1034.8
37.5°	3502.0	1915.6	1001.2	1025.0	1050.2	1061.4	1053.0	1011.0	998.4	998.4	1001.2
40°	3602.9	1797.9	980.2	1019.4	1015.2	1022.2	960.6	964.8	964.8	966.2	959.2
42.5°	3692.5	1718.1	963.4	985.8	992.8	956.4	918.6	914.4	924.2	922.8	917.2
45°	3724.7	1652.3	939.6	948.0	953.6	893.4	875.2	866.8	878.0	882.2	887.8
47.5°	3601.5	1597.7	913.0	896.2	885.0	845.8	822.0	806.5	820.6	844.4	850.0
50°	3443.2	1526.3	871.0	838.8	815.0	798.1	781.3	765.9	775.7	792.5	788.3
52.5°	3209.4	1414.3	817.8	784.1	743.5	747.7	732.3	723.9	729.5	729.5	725.3
55°	2876.1	1162.2	728.1	704.3	670.7	681.9	684.7	673.5	662.3	672.1	663.7
57.5°	1963.2	820.6	649.7	649.7	616.1	631.5	630.1	603.5	576.9	579.7	574.1
60°	1135.6	653.9	599.3	593.7	558.7	571.3	574.1	555.9	515.3	518.1	512.5
62.5°	645.5	558.7	523.7	515.3	508.3	519.5	519.5	495.7	460.7	463.5	457.9
65°	548.9	518.1	467.7	466.3	463.5	466.3	455.1	429.9	399.1	386.5	387.9
67.5°	498.5	478.9	429.9	417.3	408.9	407.5	386.5	362.7	348.7	337.5	336.1
70°	436.9	421.5	385.1	368.3	359.9	340.3	319.3	303.9	284.3	278.7	284.3
72.5°	345.9	344.5	330.5	312.3	294.1	278.7	260.4	239.4	221.2	217.0	207.2
75°	239.4	242.2	245.0	242.2	226.8	207.2	186.2	169.4	147.0	134.4	131.6
77.5°	156.8	161.0	165.2	159.6	149.8	131.6	117.6	96.6	79.8	70.0	68.6
80°	114.8	120.4	123.2	119.0	107.8	93.8	78.4	61.6	49.0	40.6	40.6
82.5°	88.2	93.8	96.6	89.6	78.4	67.2	56.0	43.4	33.6	26.6	25.2
85°	30.8	29.4	35.0	36.4	43.4	40.6	33.6	25.2	19.6	14.0	12.6
87.5°	8.4	8.4	9.8	9.8	8.4	7.0	7.0	7.0	5.6	4.2	4.2
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)