

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: P451644

Luminaire Tested: **GALN-SA2C-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14276 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

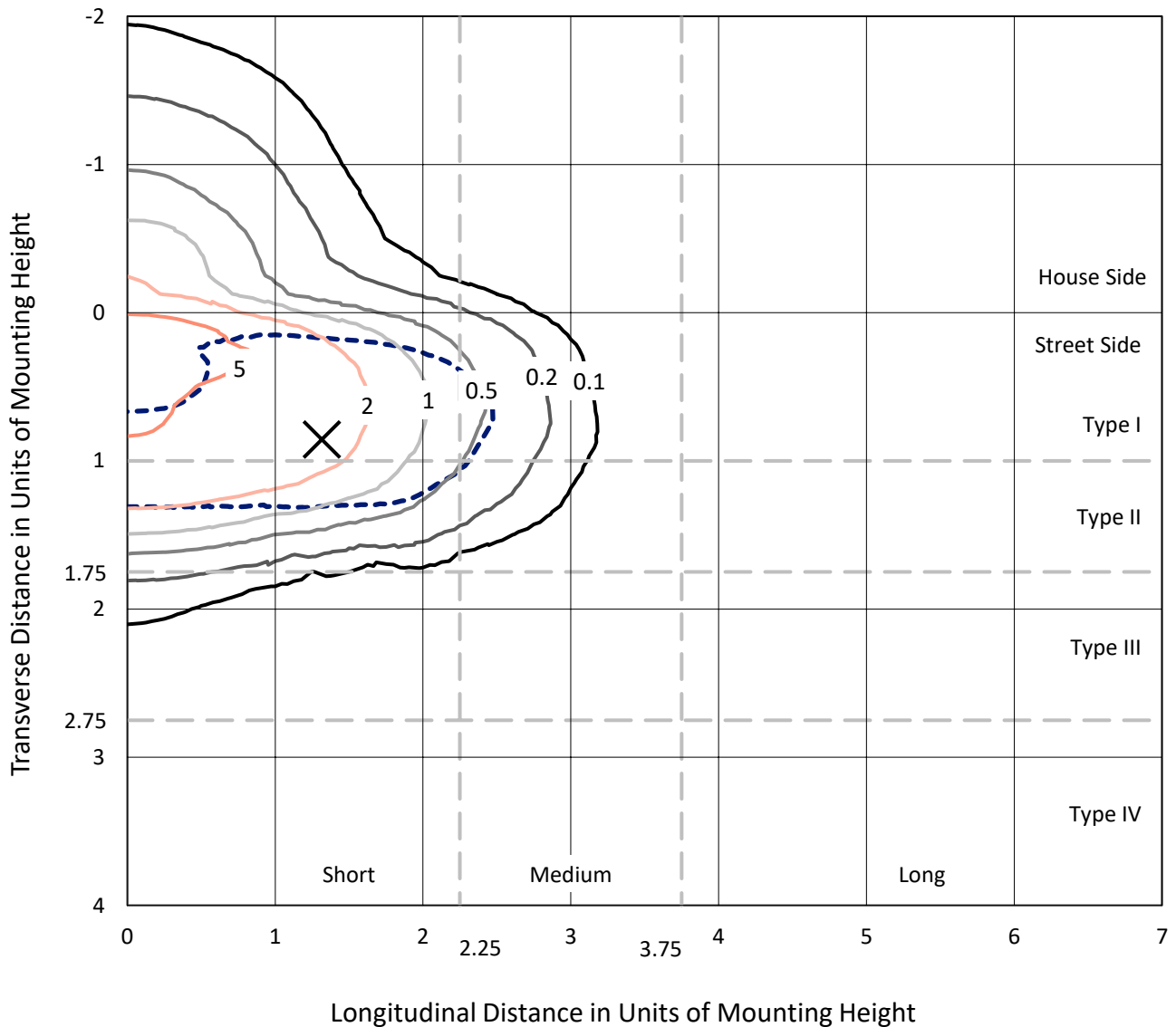
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

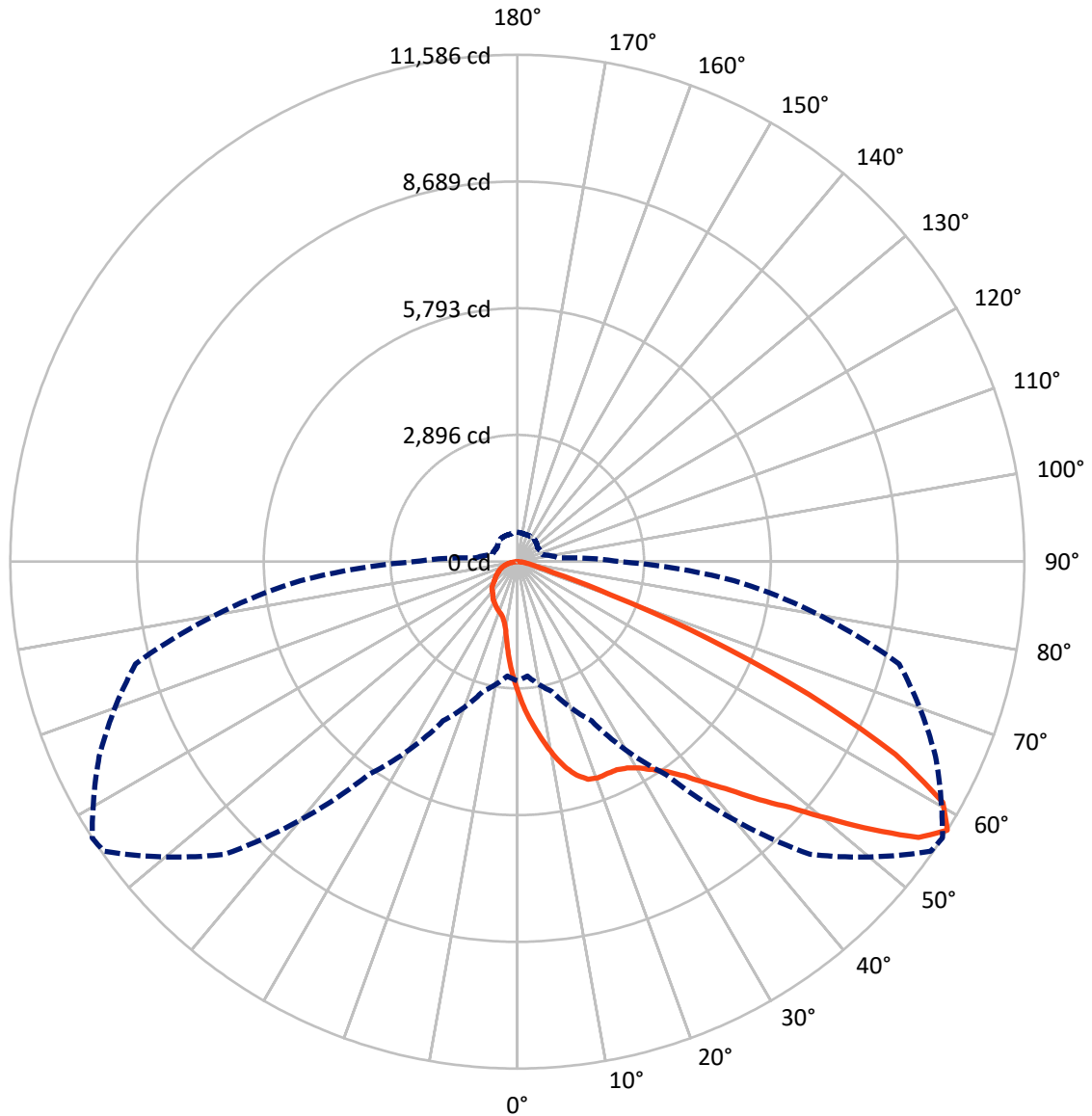
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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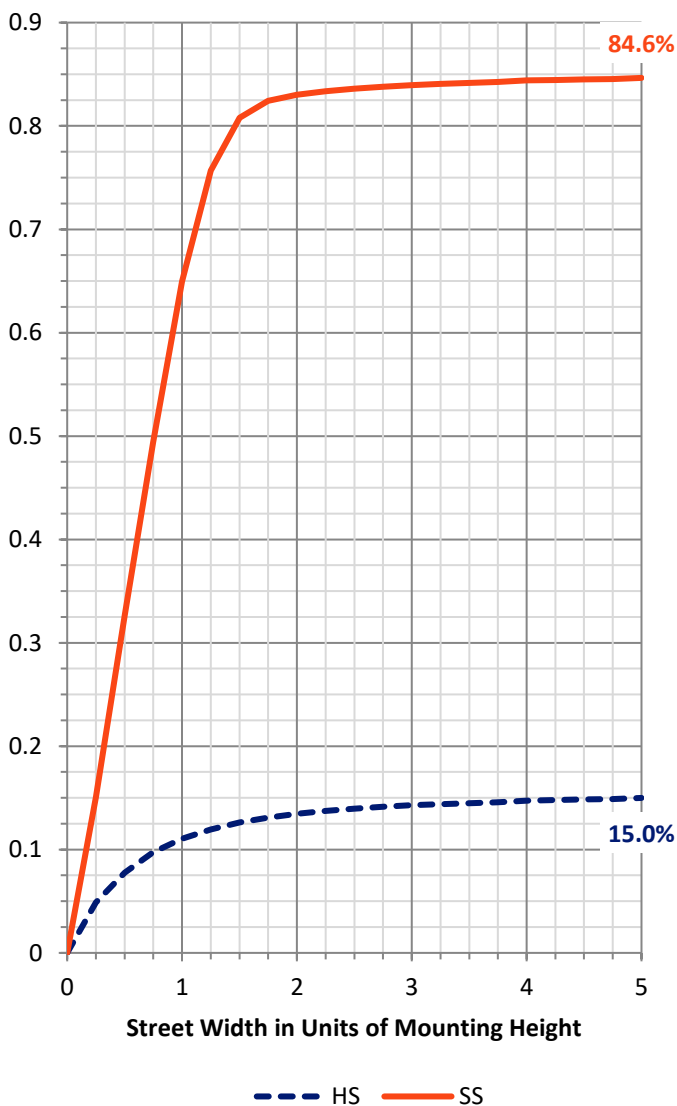
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2171.0	0.0	2171.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	12105.0	0.0	12105.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	14276.0	0.0	14276.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	2.0
10°-20°	849.5	6.0
20°-30°	1410.6	9.9
30°-40°	2124.8	14.9
40°-50°	3190.2	22.3
50°-60°	3575.8	25.0
60°-70°	2092.7	14.7
70°-80°	619.0	4.3
80°-90°	125.1	0.9
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°	14276.0	100.0
0°-180°	14276.0	100.0



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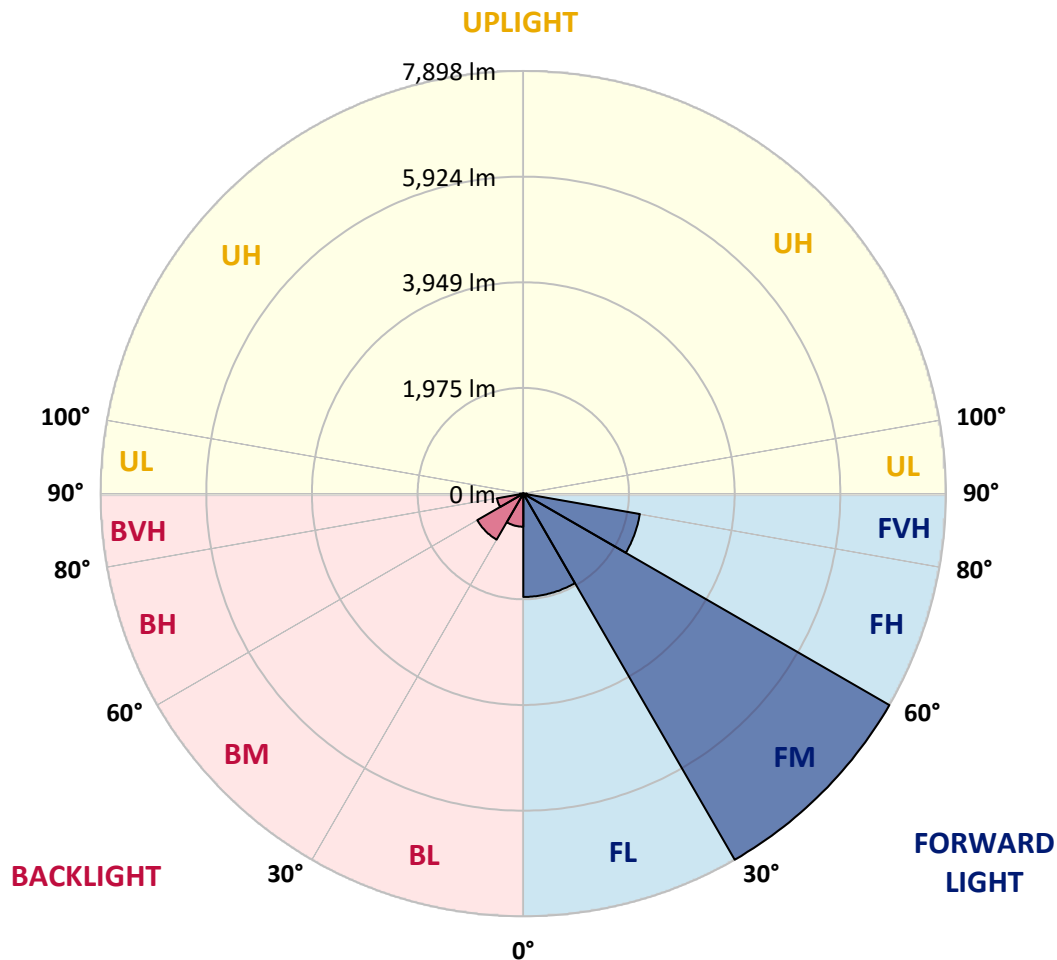
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1929.8	13.5			
FM	(30°-60°)	7898.1	55.3			
FH	(60°-80°)	2212.2	15.5			G2/5000
FVH	(80°-90°)	64.9	0.5			G1/100
BL	(0°-30°)	618.6	4.3	B2/1000		
BM	(30°-60°)	992.7	7.0	B1/1000		
BH	(60°-80°)	499.5	3.5	B1/500		G1/500
BVH	(80°-90°)	60.2	0.4			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°	55°	57°	65°	75°	85°
0°	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2
2.5°	3726.8	3686.1	3654.1	3626.0	3589.2	3490.0	3390.7	3389.2	3310.2	3188.3	3063.3
5°	4333.9	4279.2	4286.3	4198.8	4111.2	3967.4	3757.2	3746.3	3578.3	3350.1	3118.0
7.5°	4729.4	4730.1	4708.3	4658.3	4563.7	4400.4	4162.0	4108.1	3874.5	3528.3	3180.5
10°	4709.0	4730.1	4766.9	4809.9	4838.8	4758.3	4541.0	4475.4	4171.4	3744.0	3250.1
12.5°	4438.7	4471.5	4523.8	4631.7	4805.9	4938.8	4864.6	4811.4	4515.2	3958.9	3326.7
15°	4269.9	4289.4	4318.3	4391.0	4578.5	4896.6	5088.8	5060.7	4839.6	4201.9	3412.6
17.5°	4218.3	4237.8	4247.2	4291.8	4425.4	4751.2	5177.1	5227.2	5127.1	4425.4	3499.4
20°	4269.9	4279.2	4279.2	4305.8	4410.5	4666.1	5173.2	5274.0	5363.1	4693.4	3580.6
22.5°	4405.1	4409.0	4403.5	4412.9	4491.0	4689.5	5136.5	5261.5	5553.8	4920.8	3643.9
25°	4624.7	4630.9	4595.0	4573.1	4630.1	4792.7	5156.8	5271.7	5703.1	5138.1	3686.1
27.5°	4873.9	4881.7	4838.0	4787.2	4813.8	4920.0	5236.5	5339.7	5814.8	5352.2	3712.7
30°	5179.5	5182.6	5109.2	5048.2	5031.0	5109.9	5372.5	5468.6	5953.9	5604.6	3752.5
32.5°	5492.1	5515.5	5421.0	5335.0	5306.1	5330.3	5573.3	5666.3	6119.6	5875.8	3816.6
35°	5917.2	5921.1	5807.8	5703.1	5607.7	5639.0	5830.4	5897.6	6348.5	6189.1	3907.3
37.5°	6447.8	6483.7	6327.4	6132.1	6014.9	5969.5	6141.5	6214.9	6669.7	6573.6	4044.0
40°	7037.0	7050.3	6916.7	6794.8	6580.6	6449.3	6568.1	6647.8	7065.9	7032.3	4202.7
42.5°	7407.4	7436.3	7446.5	7434.0	7273.0	7052.6	7098.0	7135.5	7534.8	7462.9	4365.2
45°	7532.4	7575.4	7720.8	8028.7	8045.9	7828.6	7723.1	7759.1	8045.9	7897.4	4520.7
47.5°	7325.4	7398.8	7666.9	8298.3	8771.1	8787.5	8469.4	8390.5	8511.6	8257.6	4633.2
50°	6790.1	6805.7	7216.0	8130.3	9111.0	9704.1	9375.1	9228.2	8953.9	8524.1	4710.6
52.5°	5961.7	5979.7	6323.5	7349.6	8901.6	10344.9	10434.8	10172.2	9403.2	8731.2	4761.4
55°	4425.4	4529.3	4907.5	5899.2	7909.1	10284.7	11277.2	11127.9	9946.4	8895.3	4841.1
57.5°	2721.0	2625.7	3074.2	4013.6	5948.4	9457.9	11537.4	11585.9	10544.2	9032.8	4974.7
60°	1251.9	1270.6	1455.9	2070.1	3626.0	7398.8	10866.9	11173.2	10874.7	9028.1	5008.3
62.5°	862.7	845.5	798.6	908.8	1653.6	4679.4	9179.0	9697.9	10212.1	8747.6	4874.7
65°	771.3	754.1	663.5	633.0	759.6	2039.6	6672.8	7327.7	8598.3	8039.6	4541.8
67.5°	720.5	697.1	603.3	543.9	542.3	811.9	3934.6	4723.1	6377.5	6797.1	3935.4
70°	667.4	648.6	555.6	490.0	461.8	510.3	1729.4	2263.9	4140.9	4898.2	3065.6
72.5°	614.2	592.3	508.7	438.4	401.7	382.1	662.7	861.9	2339.7	2936.7	1879.4
75°	536.9	525.9	454.8	397.0	357.1	308.7	420.4	479.8	1119.0	1348.8	943.2
77.5°	469.7	457.9	404.0	347.0	318.1	250.8	298.5	325.9	472.0	547.0	425.9
80°	343.8	355.6	340.7	306.3	283.7	196.9	200.8	223.5	280.5	310.2	260.2
82.5°	218.0	239.9	262.6	236.0	214.9	155.5	139.1	147.7	191.5	203.2	115.7
85°	91.4	93.0	152.4	143.8	122.7	92.2	83.6	88.3	102.4	107.1	53.9
87.5°	35.2	34.4	53.9	50.0	38.3	26.6	26.6	29.7	40.6	37.5	17.2
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°	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2
2.5°	3009.4	2953.9	2843.7	2707.0	2606.9	2494.4	2395.2	2324.0	2297.5	2285.0	2261.5
5°	3007.0	2897.6	2669.5	2430.3	2238.1	2041.2	1874.7	1766.9	1757.5	1685.6	1678.6
7.5°	3007.8	2840.6	2477.2	2125.6	1832.5	1630.9	1493.4	1457.4	1414.4	1403.5	1409.0
10°	3010.2	2767.9	2270.9	1823.9	1540.2	1408.2	1356.6	1342.5	1344.1	1348.8	1349.6
12.5°	3013.3	2697.6	2056.8	1594.9	1376.1	1321.4	1316.0	1328.5	1341.8	1351.9	1354.3
15°	3017.2	2617.1	1848.1	1410.5	1294.1	1289.4	1307.4	1328.5	1347.2	1362.1	1364.4
17.5°	3012.5	2523.3	1673.1	1297.2	1248.8	1271.4	1301.1	1327.7	1344.9	1359.0	1360.5
20°	3001.6	2418.6	1504.3	1217.5	1220.6	1257.4	1289.4	1314.4	1333.2	1340.2	1345.7
22.5°	2959.4	2293.6	1357.4	1155.8	1187.0	1237.8	1276.1	1291.0	1269.9	1255.0	1258.9
25°	2887.5	2131.0	1220.6	1105.8	1156.6	1210.5	1249.5	1213.6	1196.4	1190.2	1193.3
27.5°	2797.6	1952.9	1117.5	1053.4	1117.5	1180.0	1169.1	1162.8	1155.0	1144.8	1147.2
30°	2700.7	1778.6	1030.0	1012.8	1075.3	1111.2	1115.9	1126.1	1117.5	1101.9	1108.1
32.5°	2610.8	1614.5	963.5	978.4	1045.6	1040.1	1075.3	1087.0	1047.1	994.8	997.1
35°	2534.3	1462.1	913.5	944.8	994.8	997.1	1032.3	991.7	948.7	923.7	925.2
37.5°	2476.4	1343.3	880.7	915.9	929.9	959.6	940.9	919.8	914.3	897.1	897.9
40°	2442.0	1239.4	859.6	893.2	890.9	911.2	851.0	872.1	879.9	874.4	875.2
42.5°	2407.7	1165.9	837.7	861.9	861.2	821.3	808.0	826.0	846.3	848.7	847.1
45°	2380.3	1108.9	815.1	814.3	829.9	767.4	763.5	774.4	803.3	817.4	816.6
47.5°	2349.8	1061.2	780.7	758.8	763.5	733.8	727.5	732.2	767.4	790.1	796.3
50°	2311.5	1013.5	737.7	708.0	688.5	702.5	704.1	704.9	740.0	765.8	771.3
52.5°	2281.1	977.6	688.5	666.6	643.1	674.4	686.1	687.7	708.8	729.9	733.8
55°	2299.0	957.3	640.0	624.4	603.3	645.5	668.1	671.3	676.0	691.6	693.9
57.5°	2353.0	962.0	600.9	580.6	565.0	611.1	649.4	651.7	648.6	667.4	670.5
60°	2369.4	959.6	572.0	532.2	522.8	574.4	622.0	626.7	625.9	653.3	658.8
62.5°	2300.6	929.9	543.1	491.5	485.3	536.9	583.7	602.5	606.4	645.5	652.5
65°	2138.8	869.0	504.8	448.6	448.6	497.0	547.0	572.8	583.7	636.1	643.9
67.5°	1925.5	797.1	465.7	411.8	410.3	458.7	507.9	534.5	551.7	622.8	627.5
70°	1598.1	700.2	417.3	372.0	372.0	415.7	460.3	492.3	517.3	597.8	597.8
72.5°	1094.8	582.2	358.7	326.6	327.4	368.1	413.4	449.3	479.0	547.8	549.4
75°	692.4	454.8	294.6	278.2	281.3	319.6	366.5	404.0	463.4	541.5	543.9
77.5°	368.1	319.6	234.4	230.5	234.4	269.6	322.0	373.5	465.0	469.7	461.8
80°	238.3	226.6	185.2	177.4	179.0	217.2	286.8	354.8	373.5	378.2	361.0
82.5°	129.7	143.8	131.3	123.5	123.5	169.6	244.6	282.1	268.0	222.7	212.6
85°	55.5	67.2	68.0	59.4	57.0	104.7	164.1	153.9	143.0	136.8	135.2
87.5°	15.6	21.9	21.9	16.4	12.5	28.9	32.8	9.4	0.0	0.8	1.6
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)