

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: P382910

Luminaire Tested: **GLEON-SA2D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15172.1 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

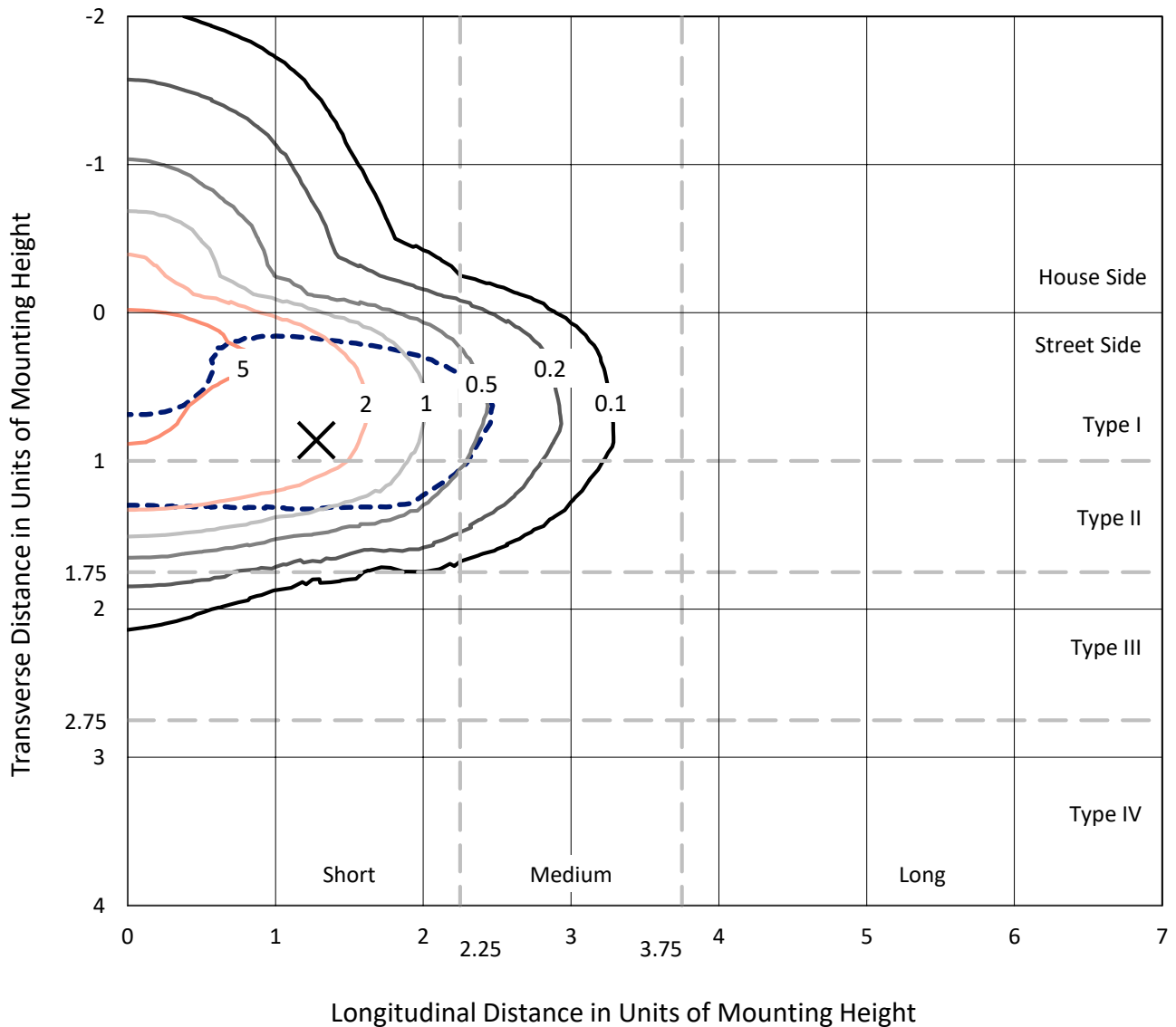
Input Watts (W): 129
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

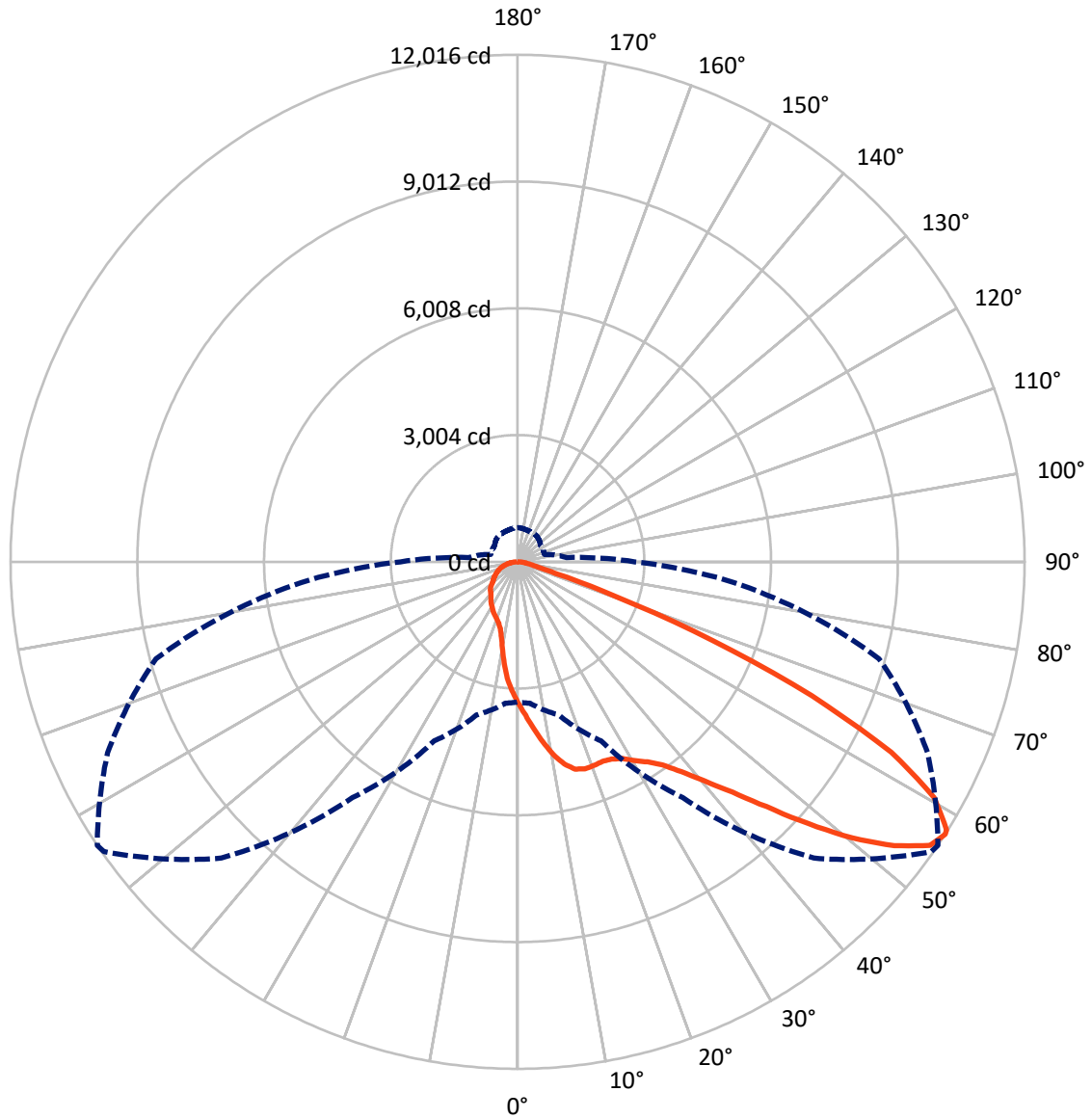
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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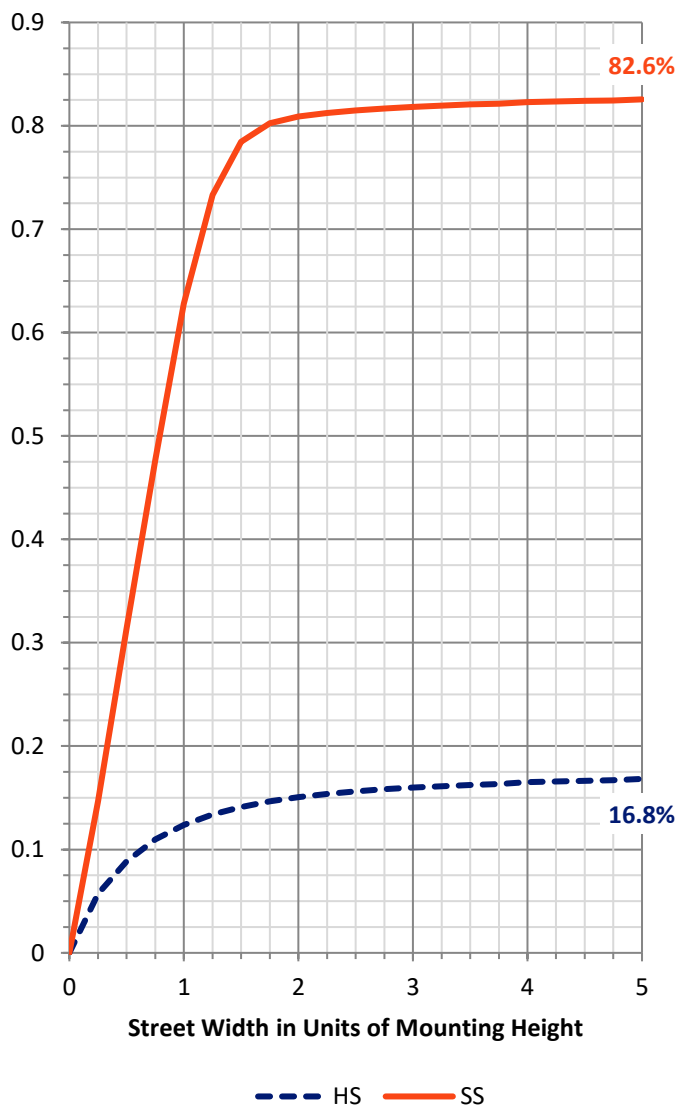
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.4	0.0	2615.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	12556.8	0.0	12556.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	15172.1	0.0	15172.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	2.1
10°-20°	908.8	6.0
20°-30°	1480.3	9.8
30°-40°	2212.9	14.6
40°-50°	3356.5	22.1
50°-60°	3762.1	24.8
60°-70°	2222.0	14.6
70°-80°	728.0	4.8
80°-90°	179.9	1.2
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°	15172.1	100.0
0°-180°	15172.1	100.0

Coefficient of Utilization

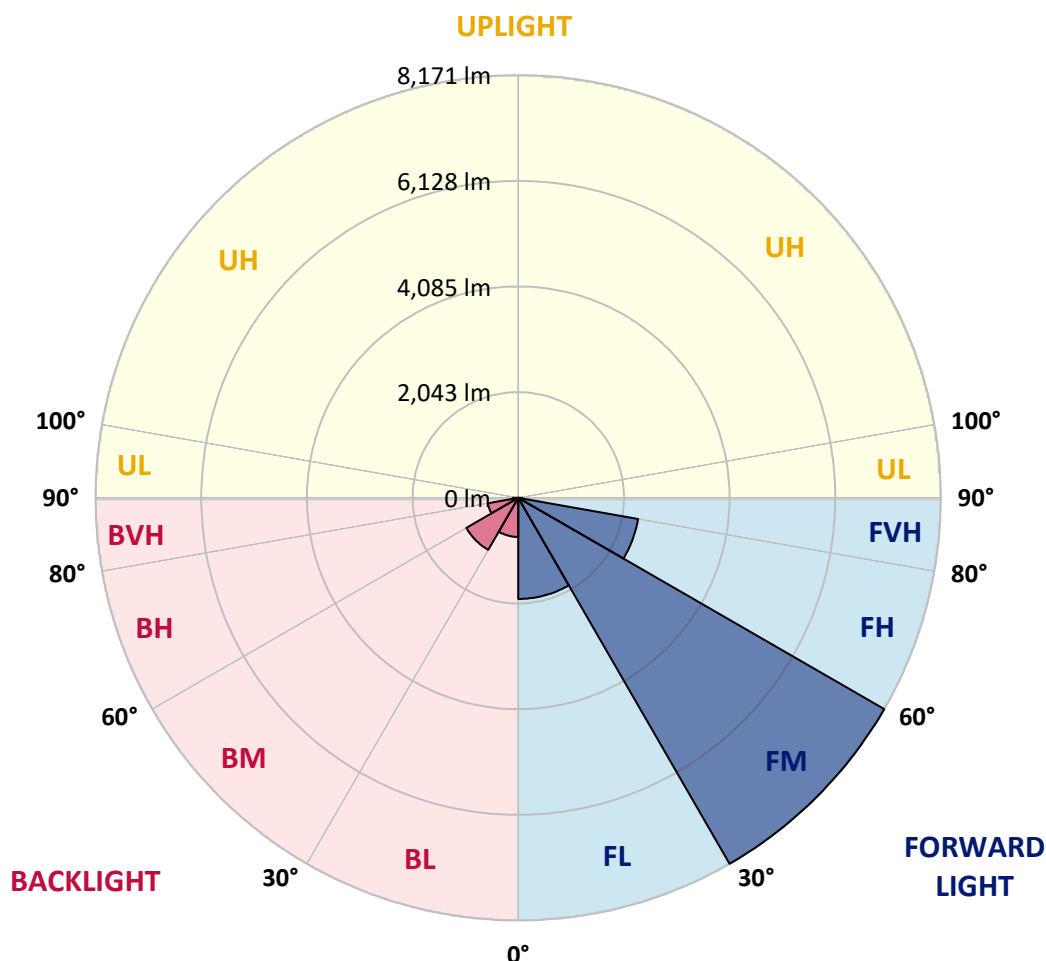


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.4	12.9			
FM (30°-60°)	8170.7	53.9			
FH (60°-80°)	2352.5	15.5			G2/5000
FVH (80°-90°)	79.2	0.5			G1/100
BL (0°-30°)	756.2	5.0	B2/1000		
BM (30°-60°)	1160.9	7.7	B2/2500		
BH (60°-80°)	597.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	100.7	0.7			G2/225
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°	56°	65°	75°	85°
0°	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2
2.5°	3864.2	3899.6	3884.0	3829.8	3788.0	3729.2	3663.4	3643.7	3574.3	3496.6	3403.2
5°	4475.8	4458.1	4432.5	4348.1	4258.8	4155.2	3990.4	3964.3	3809.9	3634.2	3448.6
7.5°	4824.1	4822.5	4807.4	4757.9	4676.6	4541.0	4342.3	4311.6	4078.5	3795.9	3508.0
10°	4773.5	4769.9	4794.9	4846.6	4871.1	4842.8	4675.5	4644.7	4358.4	3974.7	3576.9
12.5°	4486.2	4488.3	4528.4	4636.9	4784.4	4961.8	4934.6	4919.5	4648.9	4177.1	3660.3
15°	4262.6	4267.2	4299.0	4393.5	4567.6	4889.3	5092.1	5097.3	4929.9	4400.2	3757.8
17.5°	4164.5	4174.5	4189.0	4255.2	4414.8	4744.8	5129.7	5157.8	5176.1	4631.7	3851.7
20°	4195.8	4205.2	4209.4	4251.6	4382.5	4657.3	5103.6	5154.2	5364.8	4849.6	3945.5
22.5°	4336.1	4341.8	4344.4	4355.4	4457.0	4682.2	5086.3	5139.5	5501.4	5045.2	4016.5
25°	4568.6	4564.4	4547.7	4533.7	4601.9	4781.4	5126.0	5176.6	5612.5	5222.4	4062.9
27.5°	4847.0	4841.8	4809.5	4770.9	4810.0	4935.7	5240.1	5280.3	5712.1	5388.3	4086.3
30°	5181.3	5167.7	5106.7	5060.8	5075.9	5167.2	5428.4	5464.9	5865.9	5576.5	4109.2
32.5°	5567.7	5553.0	5464.9	5388.8	5388.8	5464.9	5622.4	5652.6	5996.2	5789.2	4146.2
35°	6051.5	6033.3	5918.5	5790.8	5754.8	5793.4	5886.7	5908.2	6230.8	6057.2	4213.5
37.5°	6621.9	6597.4	6448.8	6277.8	6199.1	6196.9	6264.2	6308.1	6605.8	6409.2	4327.7
40°	7193.9	7176.7	7046.9	6912.4	6758.0	6708.4	6812.2	6825.8	7095.9	6846.1	4473.7
42.5°	7636.1	7632.9	7609.0	7626.7	7468.7	7368.5	7450.0	7460.9	7694.5	7319.1	4629.0
45°	7869.6	7874.8	7991.2	8248.8	8307.2	8234.1	8274.3	8277.4	8378.5	7796.1	4771.5
47.5°	7682.5	7709.6	8003.7	8579.8	9058.0	9300.4	9233.7	9272.3	9041.8	8206.0	4883.0
50°	6953.0	6986.4	7486.9	8432.3	9408.4	10332.3	10297.3	10288.5	9576.8	8506.3	4943.5
52.5°	6049.4	6075.5	6488.4	7665.2	9151.3	10902.7	11223.4	11177.5	10052.3	8731.0	4955.0
55°	4673.4	4714.1	5109.8	6134.4	8111.6	10684.8	11904.3	11863.2	10485.6	8848.9	4941.4
57°	3322.5	3365.2	3758.3	4681.8	6823.7	9930.3	11972.2	12015.9	10719.7	8868.7	4956.6
57.5°	2964.7	3008.5	3398.0	4294.9	6422.2	9657.5	11913.7	11986.7	10761.9	8865.5	4964.9
60°	1492.8	1509.5	1757.6	2397.4	4059.7	7807.6	11151.9	11340.2	10800.0	8712.3	5000.8
62.5°	928.1	916.1	908.3	1104.3	1975.1	5177.6	9579.8	9942.3	10071.6	8341.0	4913.8
65°	816.0	793.6	707.5	692.0	872.3	2514.8	7214.3	7665.2	8515.2	7756.0	4706.3
67.5°	766.5	744.6	647.6	589.2	589.8	996.9	4478.9	4986.8	6633.4	6766.9	4216.7
70°	715.3	695.6	604.9	536.0	502.1	552.1	2060.6	2446.0	4324.1	5319.0	3524.2
72.5°	649.7	636.2	550.1	479.2	443.2	413.5	788.9	931.7	2503.3	3572.2	2447.5
75°	580.8	568.3	494.8	427.0	383.2	325.4	444.3	478.6	1271.7	1827.5	1205.0
77.5°	505.3	497.9	440.1	377.5	342.5	269.6	314.4	331.1	545.4	783.7	604.3
80°	402.0	416.1	384.8	336.3	304.0	215.8	222.6	233.6	317.6	382.7	343.1
82.5°	261.8	286.3	301.4	273.2	250.3	170.0	160.0	164.8	207.0	233.6	149.1
85°	109.0	122.5	198.1	178.9	166.4	124.1	107.4	109.5	128.3	132.9	61.0
87.5°	48.5	51.6	87.1	81.9	70.4	42.8	45.9	50.0	68.3	64.6	23.5
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°	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2	3365.2
2.5°	3368.3	3324.5	3249.4	3166.5	3098.8	3044.5	2989.8	2952.3	2908.5	2885.0	2873.0
5°	3370.9	3284.9	3126.9	2964.7	2819.8	2687.3	2561.2	2464.2	2373.5	2324.5	2310.9
7.5°	3381.9	3252.6	2997.1	2730.1	2472.5	2237.4	2055.9	1942.3	1860.4	1823.9	1813.4
10°	3390.7	3214.5	2836.5	2441.2	2090.9	1852.6	1711.8	1648.2	1620.1	1615.3	1610.6
12.5°	3411.6	3175.4	2667.6	2139.9	1794.2	1629.4	1580.4	1576.3	1584.0	1595.6	1595.6
15°	3444.4	3136.8	2474.7	1881.3	1605.4	1547.6	1557.5	1580.4	1601.8	1619.5	1622.1
17.5°	3468.4	3089.4	2267.1	1674.3	1504.8	1520.5	1555.9	1588.2	1610.1	1627.3	1628.9
20°	3485.7	3015.9	2045.5	1516.3	1446.9	1495.4	1539.8	1568.4	1583.5	1600.8	1603.4
22.5°	3476.8	2917.3	1848.9	1403.1	1400.0	1458.9	1501.2	1535.6	1524.1	1507.4	1518.3
25°	3434.1	2781.7	1646.6	1318.6	1350.5	1409.9	1462.1	1439.1	1400.5	1393.2	1397.4
27.5°	3357.9	2608.6	1459.5	1240.4	1293.1	1364.5	1361.4	1338.4	1324.9	1315.5	1321.2
30°	3276.1	2420.9	1295.7	1172.2	1229.5	1288.4	1276.4	1275.8	1262.3	1247.2	1254.5
32.5°	3195.2	2232.2	1165.8	1115.8	1181.5	1189.3	1215.4	1223.2	1196.7	1164.8	1162.8
35°	3124.8	2053.9	1067.4	1064.8	1123.6	1124.7	1162.8	1151.8	1085.5	1052.7	1052.7
37.5°	3072.2	1876.0	992.3	1018.8	1047.5	1074.6	1093.9	1048.5	1037.7	1019.4	1018.8
40°	3049.2	1719.6	945.3	983.9	993.8	1028.2	978.7	996.4	1001.6	992.3	992.3
42.5°	3025.2	1583.5	904.6	957.4	955.8	951.0	926.1	949.0	969.8	970.4	968.8
45°	3001.3	1466.2	868.7	900.4	922.4	871.8	876.5	901.0	930.2	940.6	940.6
47.5°	2974.6	1373.4	835.8	840.5	874.4	840.5	836.9	855.6	890.1	906.8	910.4
50°	2916.2	1290.0	798.2	787.8	797.2	808.7	811.8	820.7	858.8	885.3	891.6
52.5°	2835.4	1215.4	750.3	739.4	739.4	782.6	797.2	799.8	832.2	864.0	870.3
55°	2768.2	1168.0	700.8	698.7	696.6	755.0	780.1	784.2	806.6	831.7	834.8
57°	2772.8	1164.3	662.7	664.8	664.3	726.9	763.9	772.7	784.2	805.6	809.2
57.5°	2775.5	1166.9	654.4	655.4	654.9	719.1	759.2	769.1	777.9	800.4	804.0
60°	2814.6	1173.7	620.5	609.0	611.7	677.3	732.6	745.1	750.8	780.5	785.2
62.5°	2756.7	1143.5	593.4	565.7	565.7	633.5	695.6	715.3	724.3	764.4	772.3
65°	2588.8	1058.4	561.5	516.7	521.9	589.8	651.2	683.6	697.2	747.2	755.5
67.5°	2329.7	960.0	527.6	472.9	478.2	543.8	605.3	640.3	661.7	728.4	735.2
70°	1992.3	839.5	481.8	426.6	432.8	493.8	551.1	590.8	622.6	710.7	712.7
72.5°	1468.8	688.2	417.6	375.4	382.2	435.4	496.4	542.3	585.0	666.3	665.3
75°	873.3	538.1	346.7	323.8	328.5	378.0	446.9	502.7	566.8	649.2	659.1
77.5°	529.8	405.1	282.6	271.2	276.9	327.4	411.4	470.8	558.9	612.1	609.0
80°	320.2	289.3	225.8	218.4	224.2	280.0	380.6	446.9	488.6	523.0	523.0
82.5°	167.4	176.7	165.8	160.0	167.9	227.3	346.3	390.0	431.8	370.8	346.3
85°	68.3	92.3	100.6	100.1	104.8	157.4	298.7	333.7	278.4	264.4	270.6
87.5°	22.9	39.1	49.0	42.2	44.3	99.0	207.0	161.2	191.3	133.5	126.7
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)