

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: P382994

Luminaire Tested: **GLEON-SA3C-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382994
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-SA3C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20637.5 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

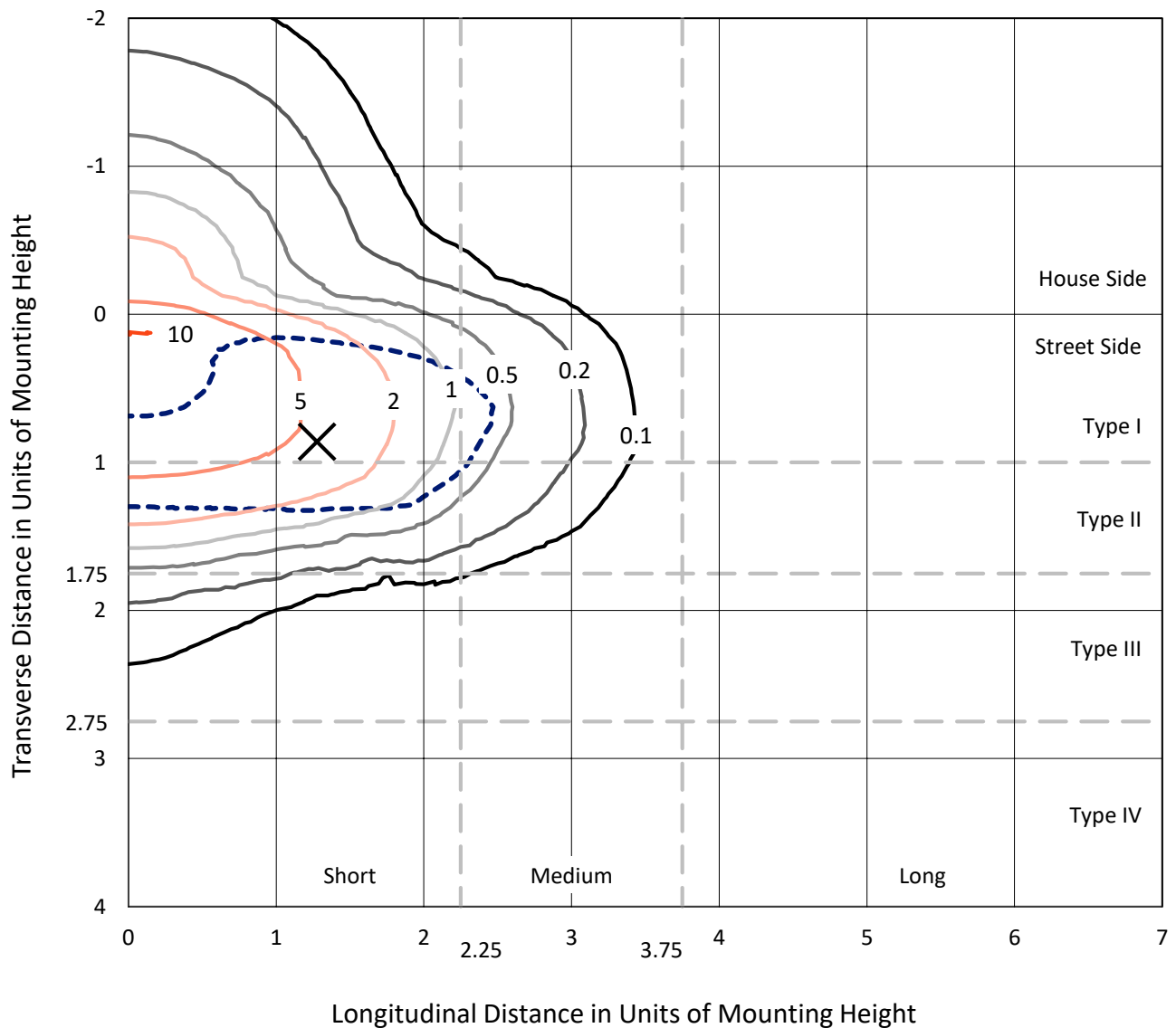
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

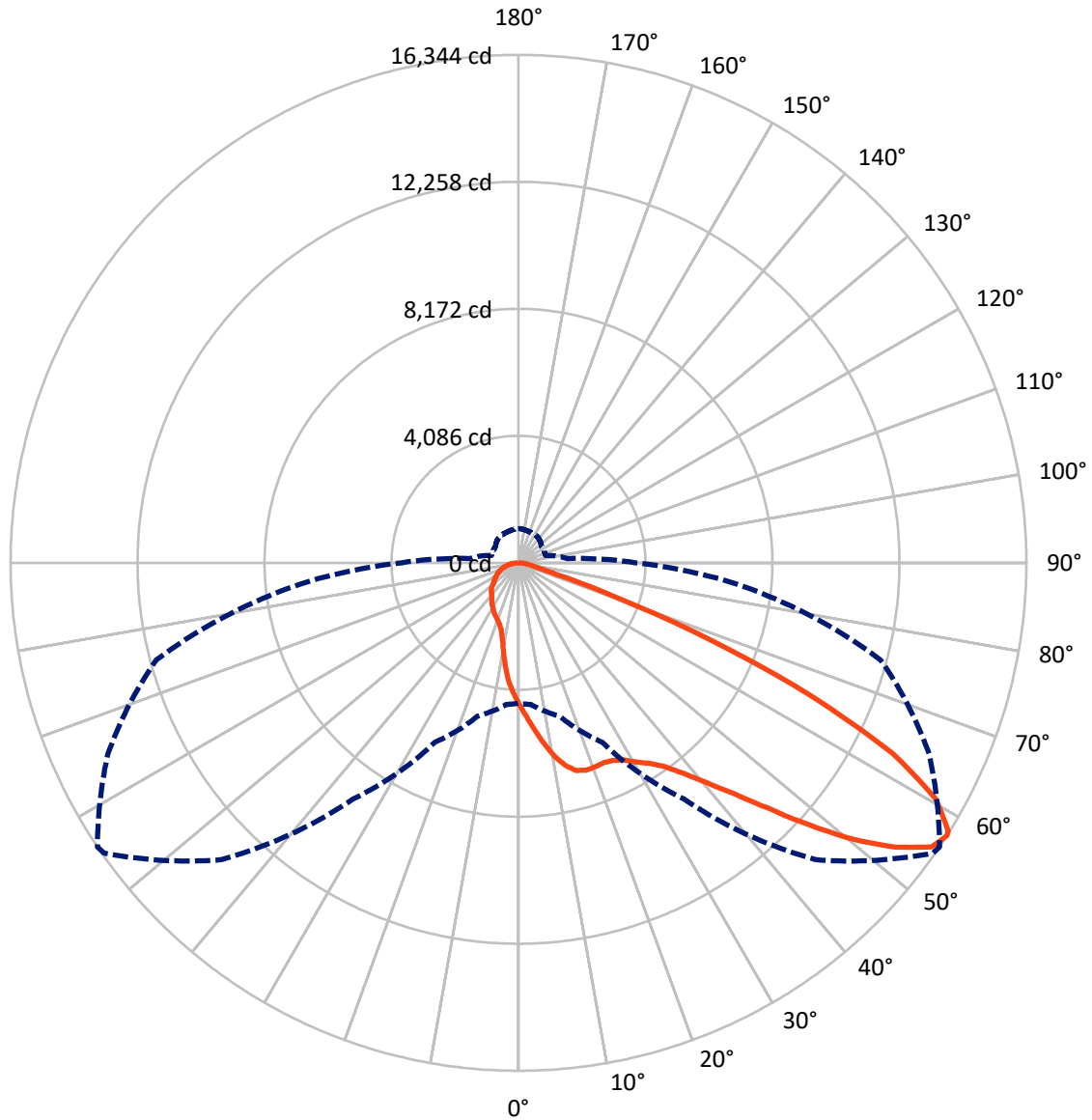
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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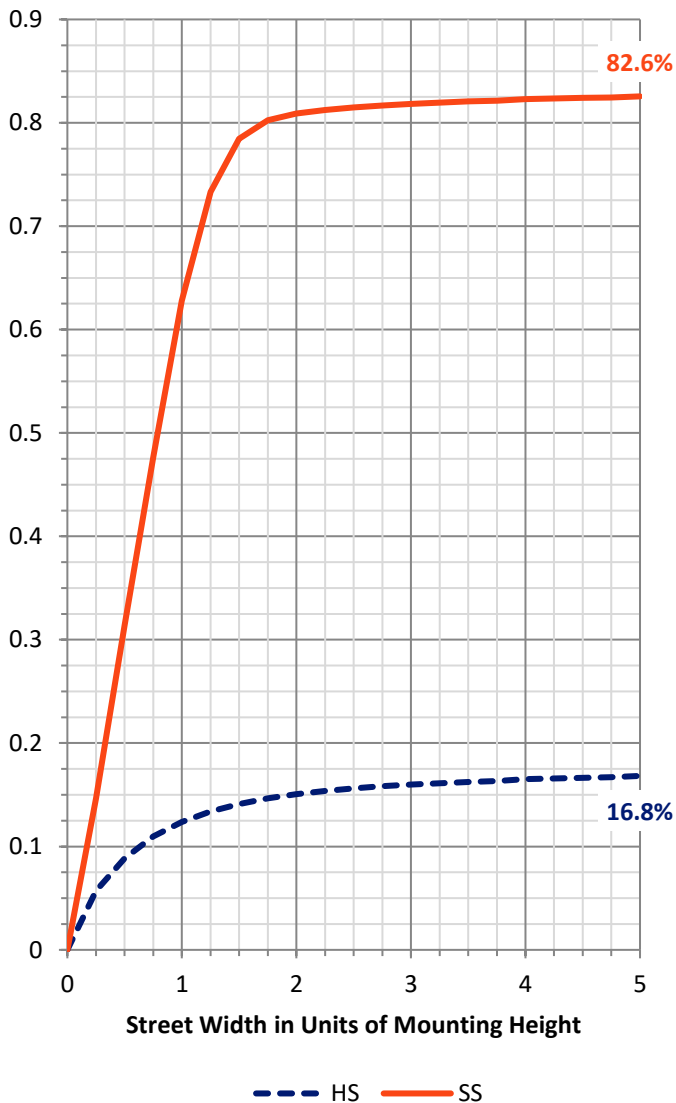
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3557.5	0.0	3557.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	17080.0	0.0	17080.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	20637.5	0.0	20637.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	2.1
10°-20°	1236.2	6.0
20°-30°	2013.6	9.8
30°-40°	3010.1	14.6
40°-50°	4565.7	22.1
50°-60°	5117.3	24.8
60°-70°	3022.5	14.6
70°-80°	990.3	4.8
80°-90°	244.7	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°	20637.5	100.0
0°-180°	20637.5	100.0

Coefficient of Utilization

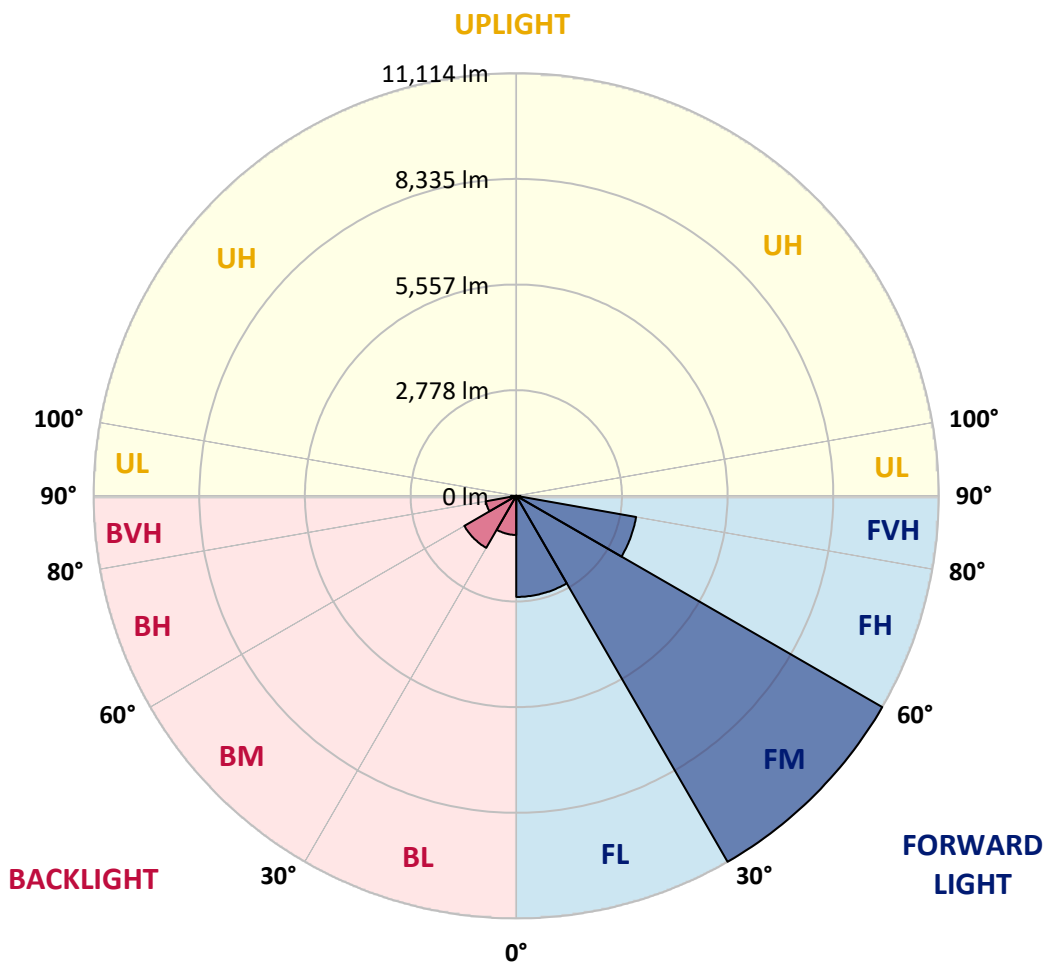


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.4	12.9			
FM (30°-60°)	11114.0	53.9			
FH (60°-80°)	3199.9	15.5			G2/5000
FVH (80°-90°)	107.7	0.5			G2/225
BL (0°-30°)	1028.7	5.0	B3/2500		
BM (30°-60°)	1579.0	7.7	B2/2500		
BH (60°-80°)	812.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	136.9	0.7			G2/225
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°	56°	65°	75°	85°
0°	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4
2.5°	5256.2	5304.4	5283.1	5209.3	5152.6	5072.5	4983.1	4956.1	4861.8	4756.1	4629.2
5°	6088.1	6064.0	6029.3	5914.3	5793.0	5651.9	5427.8	5392.4	5182.4	4943.4	4690.9
7.5°	6561.8	6559.8	6539.2	6471.8	6361.2	6176.7	5906.6	5864.7	5547.6	5163.3	4771.8
10°	6493.1	6488.1	6522.1	6592.4	6625.7	6587.4	6359.8	6317.8	5928.6	5406.5	4865.4
12.5°	6102.3	6105.1	6159.8	6307.2	6508.0	6749.1	6712.3	6691.7	6323.5	5681.7	4978.8
15°	5798.0	5804.4	5847.7	5976.1	6213.0	6650.5	6926.4	6933.5	6705.8	5985.3	5111.5
17.5°	5664.6	5678.2	5698.0	5788.1	6005.1	6454.0	6977.5	7015.8	7040.6	6300.1	5239.1
20°	5707.2	5720.0	5725.7	5783.1	5961.2	6334.9	6942.0	7010.8	7297.4	6596.7	5366.8
22.5°	5898.0	5905.8	5909.4	5924.3	6062.6	6369.0	6918.6	6991.0	7483.1	6862.6	5463.2
25°	6214.4	6208.7	6185.9	6166.8	6259.7	6503.7	6972.5	7041.3	7634.2	7103.7	5526.4
27.5°	6593.0	6585.9	6542.0	6489.5	6542.7	6713.7	7127.8	7182.4	7769.7	7329.2	5558.3
30°	7047.7	7029.3	6946.3	6883.9	6904.4	7028.5	7383.9	7433.5	7978.9	7585.3	5589.5
32.5°	7573.2	7553.4	7433.5	7330.0	7330.0	7433.5	7647.7	7688.8	8156.3	7874.7	5639.9
35°	8231.4	8206.6	8050.5	7876.8	7827.9	7880.3	8007.3	8036.4	8475.4	8239.2	5731.3
37.5°	9007.3	8974.0	8771.8	8539.2	8432.1	8429.3	8520.8	8580.4	8985.3	8718.0	5886.6
40°	9785.3	9762.0	9585.3	9402.4	9192.4	9125.1	9266.2	9284.6	9652.0	9312.3	6085.2
42.5°	10386.8	10382.6	10349.9	10374.0	10159.1	10023.0	10133.6	10148.5	10466.2	9955.5	6296.6
45°	10704.5	10711.6	10869.8	11220.1	11299.6	11200.3	11254.9	11259.2	11396.7	10604.6	6490.2
47.5°	10449.9	10486.8	10886.8	11670.5	12320.8	12650.7	12559.9	12612.4	12298.9	11162.0	6642.0
50°	9457.7	9503.1	10184.0	11469.8	12797.5	14054.3	14006.7	13994.6	13026.6	11570.5	6724.3
52.5°	8228.5	8264.0	8825.8	10426.5	12447.8	14830.1	15266.3	15203.9	13673.3	11876.2	6739.8
55°	6356.9	6412.2	6950.6	8344.2	11033.6	14533.7	16192.6	16136.5	14262.7	12036.4	6721.4
57°	4519.2	4577.4	5112.1	6368.2	9281.8	13507.4	16284.8	16344.4	14581.2	12063.4	6742.0
57.5°	4032.8	4092.3	4622.1	5842.0	8735.7	13136.5	16205.4	16304.7	14638.6	12059.2	6753.3
60°	2030.6	2053.2	2390.8	3261.1	5522.1	10620.1	15169.1	15425.2	14690.4	11850.7	6802.3
62.5°	1262.4	1246.1	1235.5	1502.1	2686.6	7042.7	13030.9	13523.7	13699.6	11345.7	6683.9
65°	1109.9	1079.5	962.5	941.1	1186.5	3420.6	9813.0	10426.5	11582.6	10549.9	6401.6
67.5°	1042.6	1012.8	880.9	801.4	802.2	1356.1	6092.3	6783.2	9022.9	9204.4	5735.6
70°	973.1	946.1	822.7	729.1	683.0	751.1	2802.9	3327.0	5881.7	7235.0	4793.7
72.5°	883.7	865.3	748.2	651.8	602.9	562.5	1073.0	1267.4	3405.1	4859.0	3329.2
75°	790.0	773.1	673.0	580.8	521.3	442.6	604.3	651.1	1729.8	2485.8	1639.1
77.5°	687.3	677.3	598.6	513.5	466.0	366.7	427.7	450.4	741.9	1066.0	822.0
80°	546.8	566.0	523.4	457.5	413.5	293.6	302.8	317.8	432.0	520.5	466.7
82.5°	356.0	389.4	410.0	371.6	340.4	231.2	217.7	224.1	281.6	317.8	202.8
85°	148.2	166.7	269.5	243.2	226.3	168.8	146.1	149.0	174.5	180.8	83.0
87.5°	66.0	70.2	118.4	111.3	95.8	58.1	62.4	68.1	92.9	87.9	32.0
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°	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4	4577.4
2.5°	4581.6	4522.1	4420.0	4307.2	4215.0	4141.2	4066.8	4015.7	3956.1	3924.2	3907.9
5°	4585.3	4468.2	4253.3	4032.8	3835.6	3655.4	3483.8	3351.9	3228.5	3161.8	3143.3
7.5°	4600.1	4424.2	4076.7	3713.5	3363.2	3043.4	2796.5	2641.9	2530.5	2480.9	2466.7
10°	4612.2	4372.4	3858.3	3320.7	2844.0	2519.9	2328.4	2241.9	2203.6	2197.2	2190.8
12.5°	4640.5	4319.2	3628.5	2910.7	2440.5	2216.3	2149.7	2144.0	2154.7	2170.2	2170.2
15°	4685.2	4266.8	3366.1	2559.0	2183.7	2105.0	2118.5	2149.7	2178.8	2202.9	2206.5
17.5°	4717.8	4202.2	3083.8	2277.4	2046.9	2068.1	2116.4	2160.4	2190.2	2213.5	2215.7
20°	4741.3	4102.3	2782.3	2062.4	1968.2	2034.1	2094.4	2133.4	2153.9	2177.4	2180.9
22.5°	4729.2	3968.2	2515.0	1908.6	1904.3	1984.5	2041.9	2088.7	2073.1	2050.4	2065.3
25°	4671.1	3783.8	2239.8	1793.7	1836.9	1917.8	1988.7	1957.5	1905.0	1895.0	1900.7
27.5°	4567.5	3548.4	1985.1	1687.3	1758.9	1856.1	1851.8	1820.6	1802.2	1789.4	1797.2
30°	4456.2	3293.0	1762.5	1594.3	1672.4	1752.5	1736.2	1735.5	1717.0	1696.5	1706.4
32.5°	4346.2	3036.3	1585.9	1517.8	1607.1	1617.7	1653.2	1663.8	1627.7	1584.5	1581.6
35°	4250.5	2793.7	1451.8	1448.3	1528.4	1529.8	1581.6	1566.7	1476.6	1432.0	1432.0
37.5°	4178.8	2551.9	1349.7	1385.9	1424.9	1461.8	1488.0	1426.3	1411.4	1386.5	1385.9
40°	4147.6	2339.0	1285.8	1338.4	1351.8	1398.6	1331.3	1355.3	1362.5	1349.7	1349.7
42.5°	4115.0	2153.9	1230.5	1302.1	1300.1	1293.6	1259.6	1290.8	1319.2	1319.9	1317.8
45°	4082.4	1994.4	1181.6	1224.9	1254.6	1185.9	1192.2	1225.5	1265.3	1279.5	1279.5
47.5°	4046.2	1868.1	1137.0	1143.3	1189.4	1143.3	1138.4	1163.9	1210.6	1233.4	1238.3
50°	3966.8	1754.7	1085.8	1071.7	1084.4	1100.1	1104.3	1116.4	1168.1	1204.3	1212.8
52.5°	3856.8	1653.2	1020.6	1005.7	1005.7	1064.6	1084.4	1088.0	1131.9	1175.2	1183.7
55°	3765.3	1588.7	953.3	950.4	947.6	1026.9	1061.0	1066.7	1097.2	1131.3	1135.5
57°	3771.7	1583.7	901.5	904.3	903.6	988.7	1039.0	1051.1	1066.7	1095.8	1100.7
57.5°	3775.3	1587.3	890.1	891.5	890.8	978.0	1032.6	1046.1	1058.1	1088.7	1093.6
60°	3828.5	1596.5	844.0	828.4	832.0	921.3	996.5	1013.5	1021.3	1061.7	1068.1
62.5°	3749.8	1555.3	807.1	769.6	769.6	861.7	946.1	973.1	985.1	1039.7	1050.4
65°	3521.3	1439.7	763.9	702.9	709.9	802.2	885.8	929.8	948.2	1016.3	1027.7
67.5°	3168.8	1305.8	717.8	643.2	650.4	739.7	823.4	870.9	900.1	990.8	1000.0
70°	2710.0	1141.9	655.3	580.2	588.6	671.6	749.7	803.6	846.9	966.7	969.6
72.5°	1997.9	936.2	568.1	510.7	519.9	592.2	675.2	737.6	795.7	906.4	905.0
75°	1188.0	731.9	471.6	440.4	446.9	514.2	607.8	683.7	770.9	883.0	896.5
77.5°	720.6	551.1	384.4	368.8	376.6	445.4	559.6	640.4	760.3	832.6	828.4
80°	435.5	393.7	307.1	297.2	305.0	380.8	517.8	607.8	664.6	711.3	711.3
82.5°	227.7	240.4	225.5	217.7	228.4	309.3	470.9	530.5	587.2	504.2	470.9
85°	92.9	125.6	136.8	136.2	142.5	214.2	406.4	453.9	378.8	359.6	368.1
87.5°	31.2	53.2	66.7	57.5	60.3	134.8	281.6	219.2	260.3	181.6	172.3
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)