

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: P383437

Luminaire Tested: **GLEON-SA7B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37390.5 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

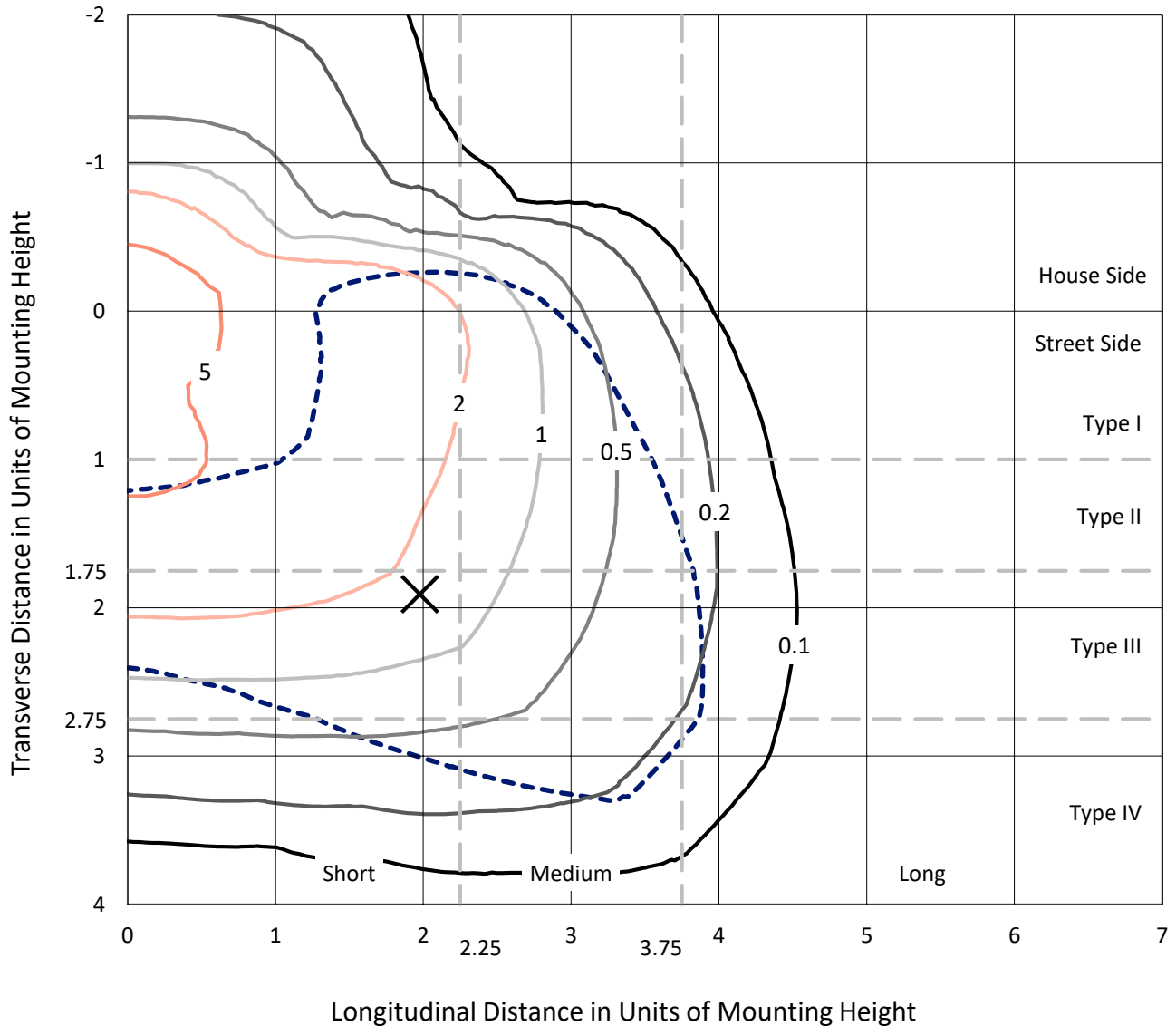
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

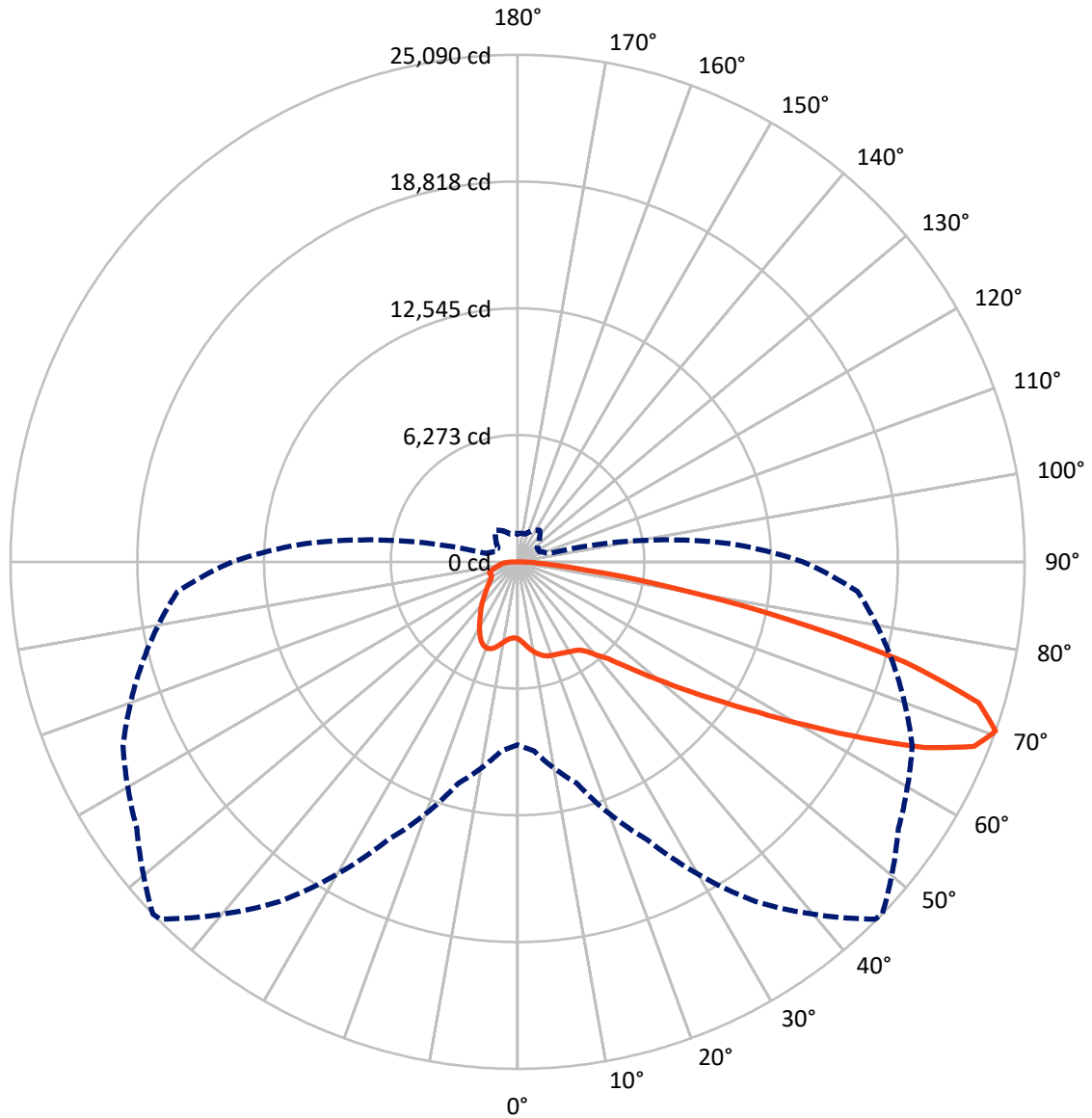
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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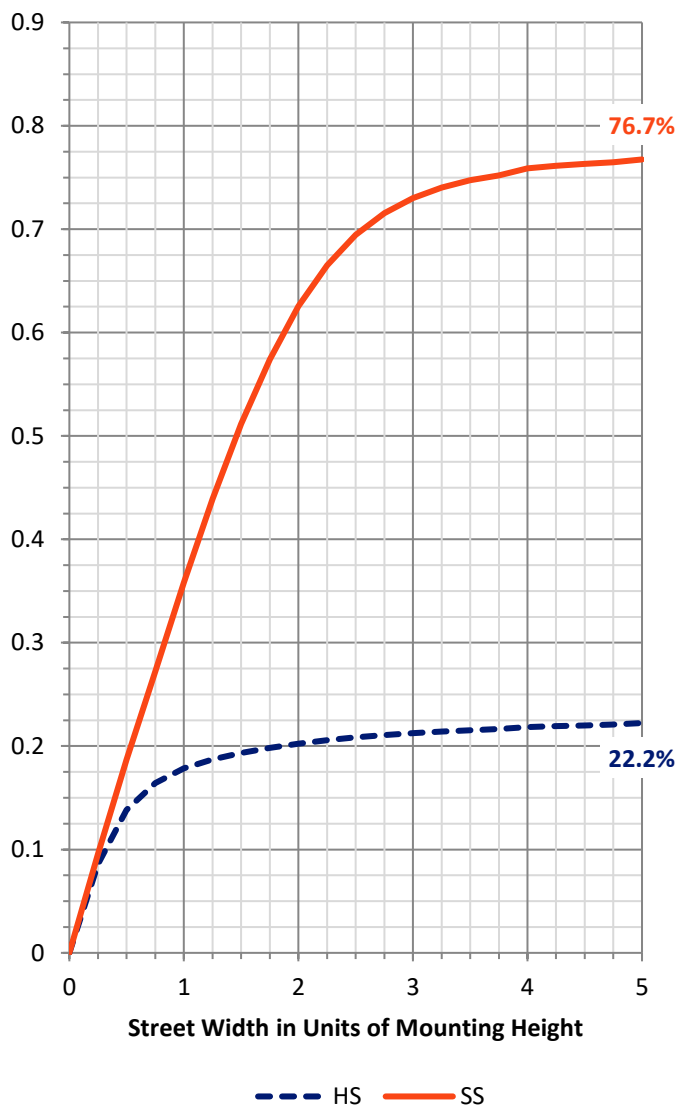
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8569.8	0.0	8569.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28820.7	0.0	28820.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	37390.5	0.0	37390.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.3	1.0
10°-20°	1293.8	3.5
20°-30°	2157.3	5.8
30°-40°	3061.3	8.2
40°-50°	4503.1	12.0
50°-60°	7625.9	20.4
60°-70°	10824.8	29.0
70°-80°	6576.2	17.6
80°-90°	959.7	2.6
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°	37390.5	100.0
0°-180°	37390.5	100.0

Coefficient of Utilization

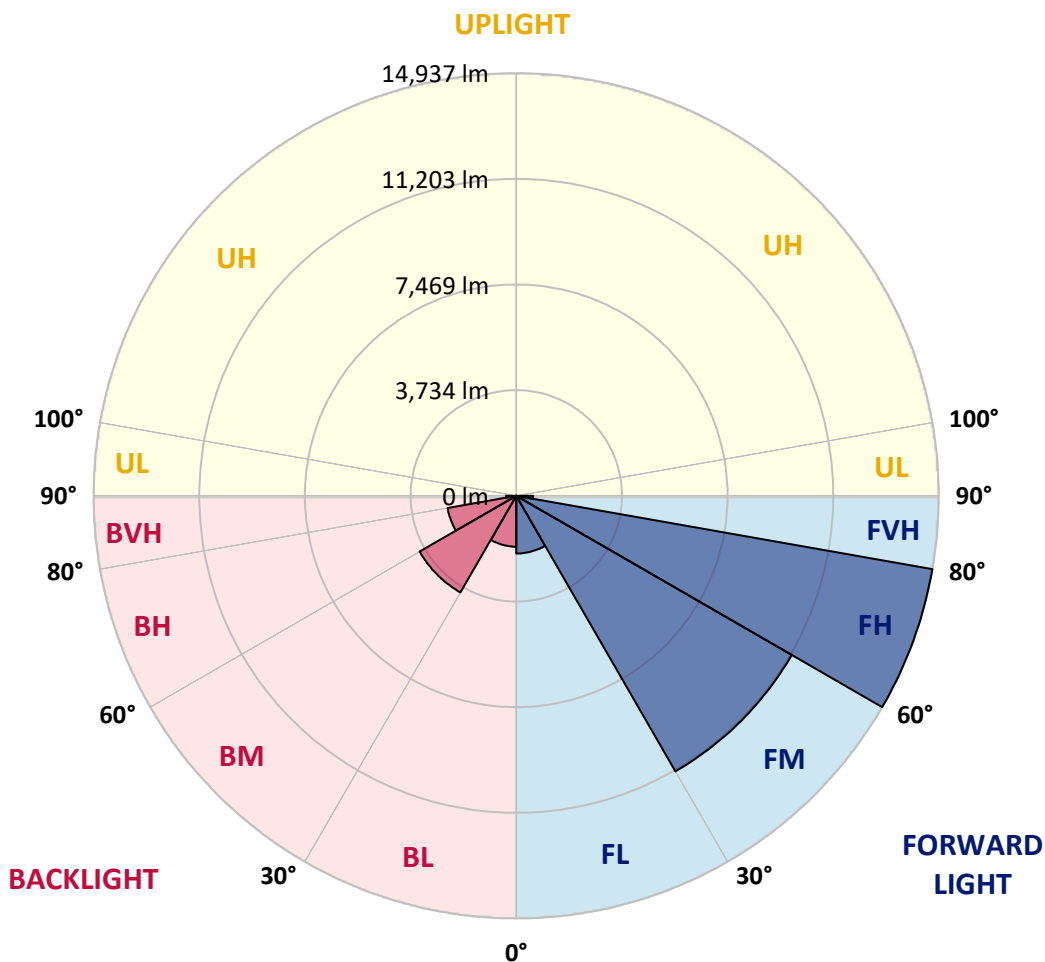


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.2	5.5			
FM (30°-60°)	11245.4	30.1			
FH (60°-80°)	14937.3	39.9			G5
FVH (80°-90°)	597.8	1.6			G4/750
BL (0°-30°)	1799.3	4.8	B3/2500		
BM (30°-60°)	3944.9	10.6	B3/5000		
BH (60°-80°)	2463.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	361.9	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4
2.5°	4000.0	4002.6	4007.7	3994.9	3959.1	3948.8	3945.0	3907.8	3883.5	3847.8	3817.0
5°	4320.0	4322.5	4314.8	4279.0	4199.6	4140.7	4135.7	4051.2	3974.4	3892.6	3831.1
7.5°	4653.9	4657.7	4633.4	4565.6	4454.3	4351.9	4345.5	4230.3	4113.9	3989.8	3897.7
10°	4949.5	4934.1	4894.4	4799.8	4668.0	4542.6	4537.5	4417.1	4282.8	4133.1	4010.2
12.5°	5146.5	5133.8	5082.5	4967.4	4822.8	4707.7	4697.4	4586.1	4455.6	4291.7	4144.6
15°	5255.3	5264.3	5195.1	5064.6	4923.9	4826.6	4817.7	4738.3	4621.9	4456.8	4287.9
17.5°	5269.4	5277.0	5210.5	5081.3	4966.1	4899.6	4895.7	4843.3	4758.8	4600.2	4423.5
20°	5187.5	5192.6	5137.6	5031.4	4955.8	4935.4	4934.1	4911.1	4848.4	4707.7	4536.2
22.5°	5068.5	5072.3	5032.7	4955.8	4930.3	4962.3	4971.2	4962.3	4917.5	4785.7	4624.5
25°	5039.0	5036.5	4995.5	4917.5	4939.3	5007.1	5018.6	5022.4	4991.7	4876.6	4737.1
27.5°	5181.1	5172.1	5094.1	4968.7	4982.8	5064.6	5080.0	5117.1	5097.9	4996.8	4865.0
30°	5591.8	5576.5	5416.5	5163.2	5094.1	5136.3	5155.5	5214.3	5218.2	5133.8	5035.2
32.5°	6285.3	6266.1	5979.5	5526.6	5282.2	5209.2	5227.2	5315.4	5362.8	5297.5	5191.3
35°	7161.9	7140.1	6764.0	6144.6	5596.9	5348.7	5361.5	5431.9	5526.6	5434.5	5293.7
37.5°	8075.5	8023.0	7661.0	6871.5	6097.3	5646.9	5646.9	5655.8	5700.6	5508.6	5414.0
40°	8984.0	8931.6	8604.0	7726.2	6744.8	6116.4	6087.0	5888.7	5852.9	5687.8	5655.8
42.5°	9828.6	9813.2	9620.0	8692.3	7504.8	6578.4	6537.4	6200.9	6208.6	6106.2	6107.5
45°	10726.9	10726.9	10569.4	9667.3	8390.3	7320.6	7279.6	6784.5	6861.2	6813.8	6927.7
47.5°	11460.1	11483.1	11461.3	10683.4	9420.4	8263.7	8189.4	7593.1	7808.0	7970.6	8302.0
50°	12208.6	12244.4	12248.3	11797.9	10665.5	9384.6	9300.1	8666.7	9146.6	9612.4	10263.6
52.5°	13295.0	13375.6	13054.4	12909.9	12190.7	10715.3	10632.1	10047.4	10848.4	11502.3	12624.5
55°	14302.1	14231.6	14002.7	14092.2	13823.5	12230.4	12167.7	11654.6	12744.8	13594.4	15051.9
57.5°	14847.2	14842.1	15072.3	15456.2	15584.2	14098.6	14046.2	13547.0	14883.0	15521.5	17330.9
60°	15487.0	15495.9	16066.6	16938.1	17465.2	16424.9	16401.9	16023.1	16959.8	17320.6	19118.4
62.5°	15576.5	15737.8	16720.4	18220.1	19225.9	19142.7	19193.9	18253.4	18817.7	18756.3	20453.1
65°	14546.4	14758.9	16537.5	18607.8	20976.4	22115.2	22162.6	20496.6	20282.9	19983.5	20930.4
67.5°	12435.1	12749.9	14682.1	17764.6	21553.5	24312.3	24378.9	22235.6	21498.4	20399.3	19781.2
70°	9049.3	9398.7	11343.6	15172.2	20524.7	25014.8	25090.3	23004.6	21544.6	19215.7	16886.8
72.5°	5466.4	5740.3	7343.6	11169.6	17323.2	23735.2	23869.6	22029.5	19669.9	16276.5	12469.7
75°	2400.5	2579.6	3550.9	6436.3	12401.9	19638.0	19805.5	18856.1	15982.2	11828.6	7370.5
77.5°	1022.4	1073.6	1456.2	2795.9	7010.9	13419.1	13649.4	13777.4	10843.3	6436.3	3114.5
80°	637.3	657.7	824.0	1265.5	3280.9	7536.8	7785.0	8106.2	5384.5	2365.9	1087.7
82.5°	387.7	410.7	547.7	765.2	1708.3	3416.5	3535.5	3762.1	2089.6	1022.4	563.0
85°	232.9	249.6	335.3	483.7	972.5	1343.6	1342.3	1484.3	984.0	657.7	296.9
87.5°	111.3	124.1	179.1	250.8	490.1	504.2	472.2	534.9	597.6	431.2	149.7
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°	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4	3809.4
2.5°	3806.8	3801.6	3785.1	3772.2	3769.7	3762.1	3755.6	3759.4	3764.6	3765.9	3765.9
5°	3805.6	3791.4	3769.7	3760.8	3772.2	3787.6	3806.8	3832.4	3847.8	3859.2	3866.9
7.5°	3866.9	3840.0	3815.7	3810.7	3833.7	3874.6	3918.1	3971.8	4009.0	4034.5	4039.7
10°	3969.3	3936.1	3911.8	3916.9	3957.8	4016.6	4078.0	4147.2	4203.5	4238.0	4240.6
12.5°	4087.1	4055.0	4032.0	4053.7	4121.5	4193.3	4257.2	4317.4	4368.5	4403.1	4403.1
15°	4222.7	4199.6	4172.8	4222.7	4314.8	4378.7	4405.7	4435.1	4463.2	4488.8	4483.7
17.5°	4353.2	4331.4	4317.4	4376.2	4472.2	4501.6	4483.7	4461.9	4461.9	4476.0	4478.6
20°	4465.7	4446.6	4455.6	4513.2	4563.0	4532.4	4465.7	4396.7	4368.5	4376.2	4383.9
22.5°	4564.3	4555.4	4582.2	4609.1	4573.2	4465.7	4343.0	4249.5	4215.0	4212.5	4215.0
25°	4679.4	4678.2	4711.5	4662.9	4504.2	4305.8	4140.7	4049.9	4030.7	4046.1	4071.7
27.5°	4822.8	4836.9	4853.5	4675.6	4363.5	4064.0	3896.4	3833.7	3852.9	3890.0	3914.3
30°	5005.8	5044.1	5008.4	4643.7	4161.2	3787.6	3627.6	3609.7	3662.2	3714.6	3740.3
32.5°	5183.6	5243.8	5156.8	4560.5	3900.2	3494.6	3370.4	3365.3	3429.3	3480.5	3516.3
35°	5327.0	5445.9	5268.1	4395.4	3598.2	3224.6	3133.7	3099.2	3122.2	3182.4	3223.3
37.5°	5513.7	5712.2	5344.8	4143.3	3270.7	3001.9	2895.7	2816.3	2795.9	2820.3	2840.7
40°	5855.4	6117.8	5380.7	3791.4	2950.8	2779.3	2671.8	2555.3	2474.7	2415.9	2417.2
42.5°	6413.3	6646.2	5357.7	3364.1	2655.2	2561.8	2440.2	2305.9	2175.3	2042.2	2032.0
45°	7319.3	7431.9	5288.6	2911.1	2395.4	2334.0	2220.1	2085.7	1911.7	1760.7	1746.7
47.5°	8769.0	8519.6	5181.1	2515.6	2166.3	2140.8	2035.8	1881.0	1696.7	1575.2	1564.9
50°	10746.1	10089.6	5128.6	2200.9	1964.2	1971.9	1886.1	1722.3	1548.3	1458.7	1448.5
52.5°	13110.7	11918.1	5229.7	1957.7	1801.7	1828.5	1764.5	1611.0	1465.1	1394.7	1384.6
55°	15563.7	13812.0	5338.5	1781.2	1648.1	1700.5	1678.8	1552.1	1420.3	1355.1	1346.2
57.5°	17663.5	15225.9	5120.9	1637.8	1511.2	1593.1	1612.3	1515.1	1397.3	1338.4	1328.2
60°	18985.3	15795.3	4550.2	1503.5	1402.4	1507.3	1573.9	1504.8	1406.3	1401.1	1393.5
62.5°	19612.3	15745.4	3694.2	1397.3	1334.6	1470.3	1602.1	1562.4	1508.6	1554.8	1558.6
65°	19330.8	14993.0	2751.1	1326.9	1286.0	1484.3	1686.5	1671.2	1538.1	1584.1	1590.5
67.5°	17478.0	13197.8	2037.1	1265.5	1232.3	1524.0	1840.1	1707.0	1480.5	1513.8	1493.3
70°	14126.7	10463.2	1571.3	1196.4	1177.2	1518.9	1909.1	1685.3	1417.8	1425.5	1370.5
72.5°	9741.6	7135.0	1278.3	1132.5	1097.9	1384.6	1860.5	1631.5	1365.4	1306.5	1233.6
75°	5297.5	3829.9	1086.4	1065.9	958.4	1215.6	1771.0	1593.1	1318.0	1239.9	1199.0
77.5°	2084.4	1589.2	943.1	975.1	838.1	1073.6	1671.2	1520.2	1252.7	1150.4	1129.9
80°	851.0	811.3	781.8	843.2	720.4	939.2	1550.8	1434.4	1174.7	1067.2	1026.2
82.5°	482.4	504.2	607.8	665.4	584.7	865.0	1493.3	1365.4	1081.2	955.9	907.2
85°	247.0	295.6	423.6	477.3	429.9	735.7	1375.5	1195.2	867.6	731.9	735.7
87.5°	119.0	165.1	267.4	299.4	278.9	532.3	1027.5	866.2	675.7	534.9	518.2
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)