

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: P648457

Luminaire Tested: **GALN-SA5B-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22833.1 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

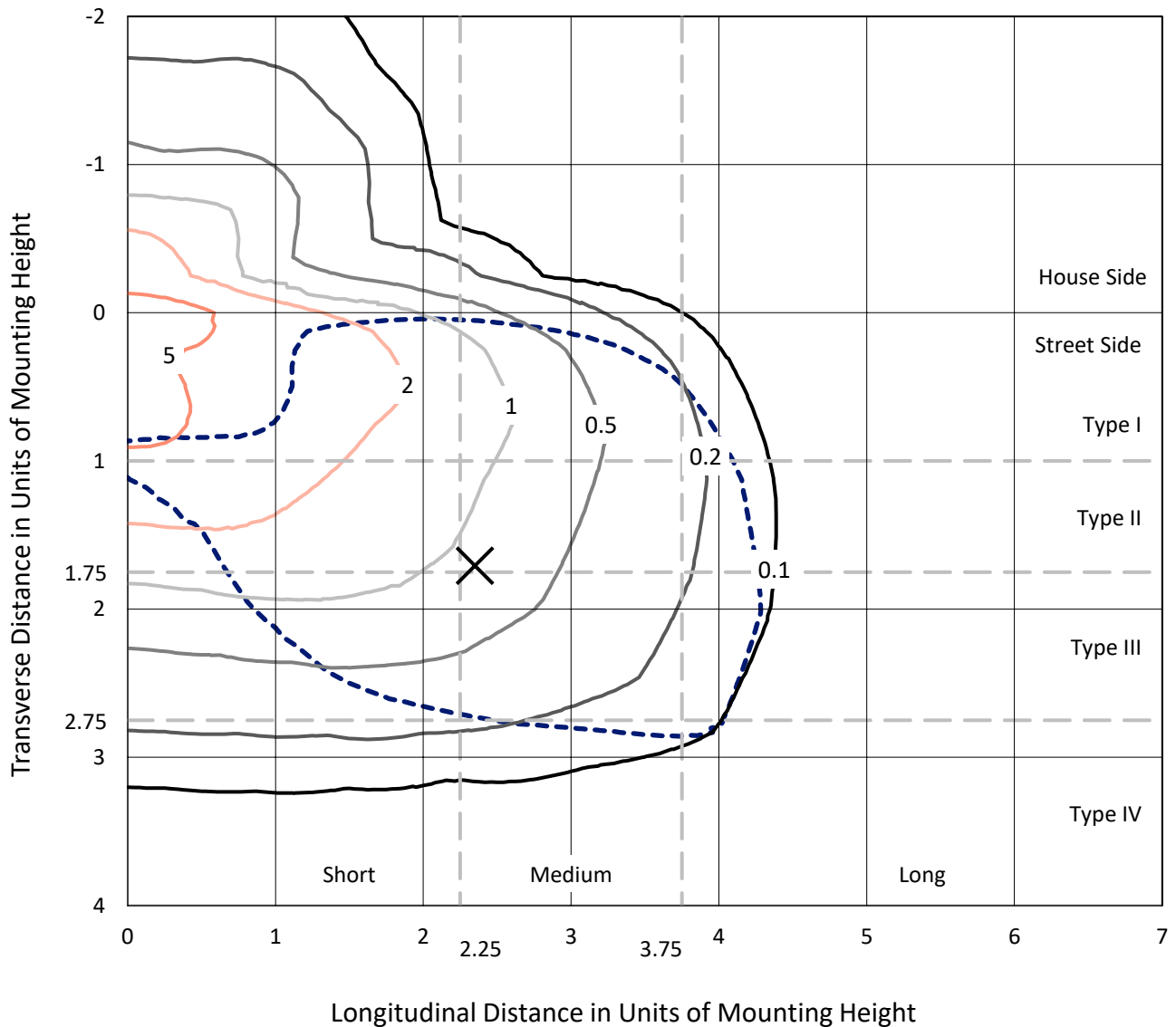
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

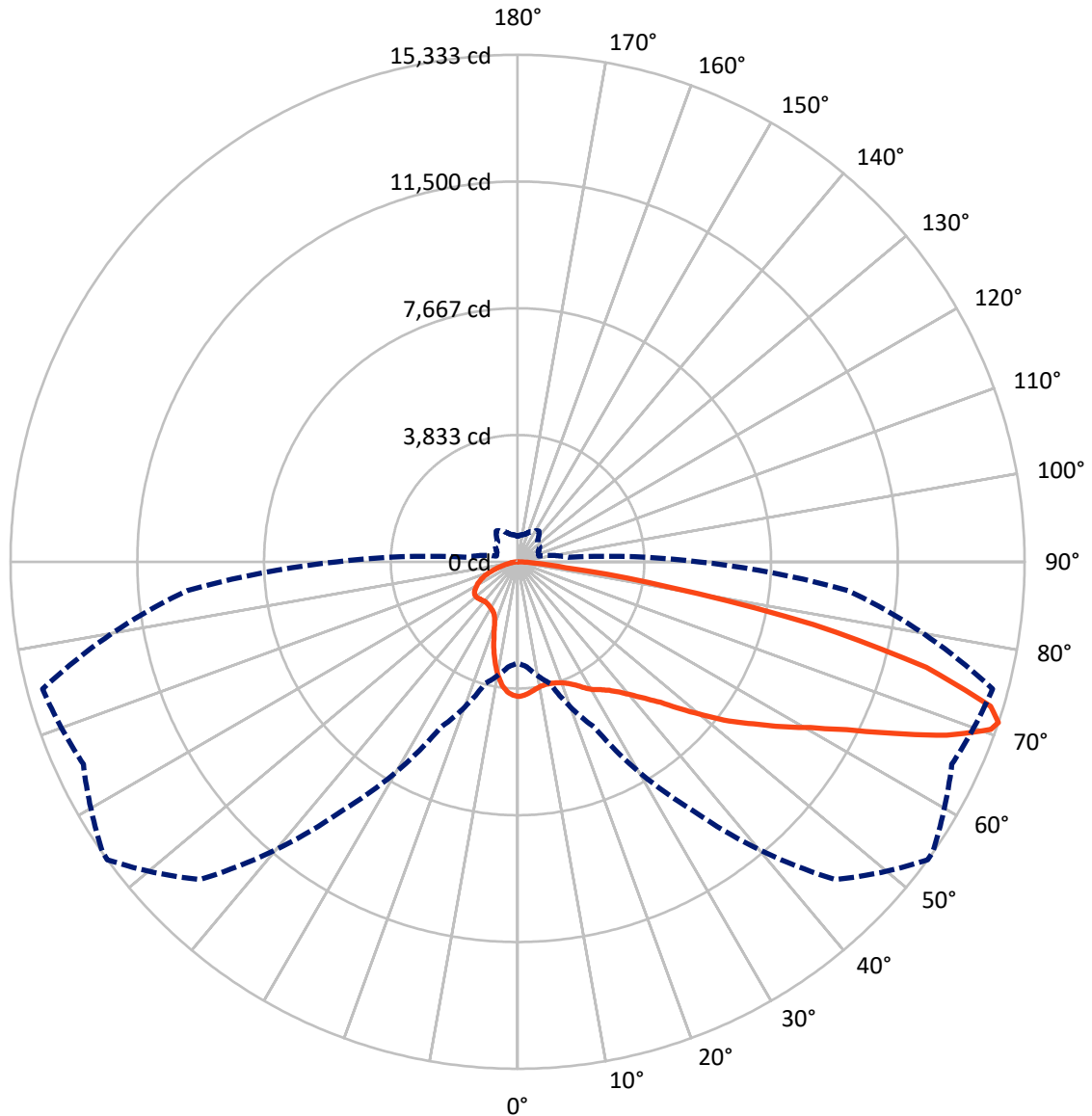
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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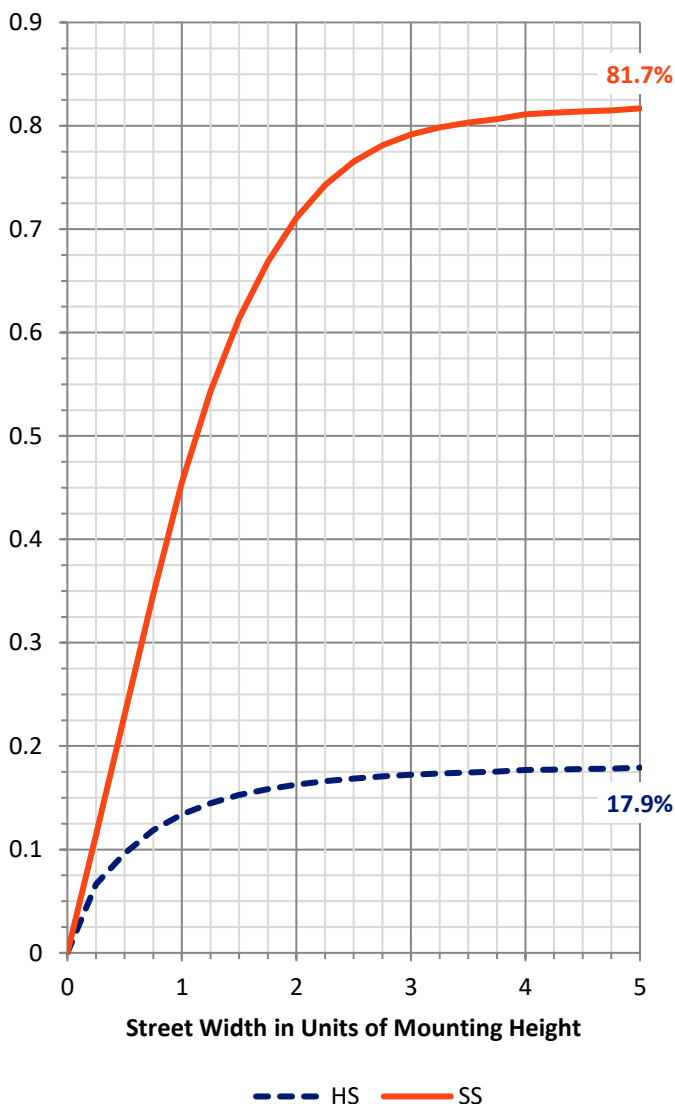
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4122.4	0.0	4122.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18710.7	0.0	18710.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	22833.1	0.0	22833.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.0	1.6
10°-20°	958.6	4.2
20°-30°	1596.1	7.0
30°-40°	2360.1	10.3
40°-50°	3324.3	14.6
50°-60°	4451.4	19.5
60°-70°	5610.6	24.6
70°-80°	3832.0	16.8
80°-90°	337.0	1.5
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°	22833.1	100.0
0°-180°	22833.1	100.0

Coefficient of Utilization

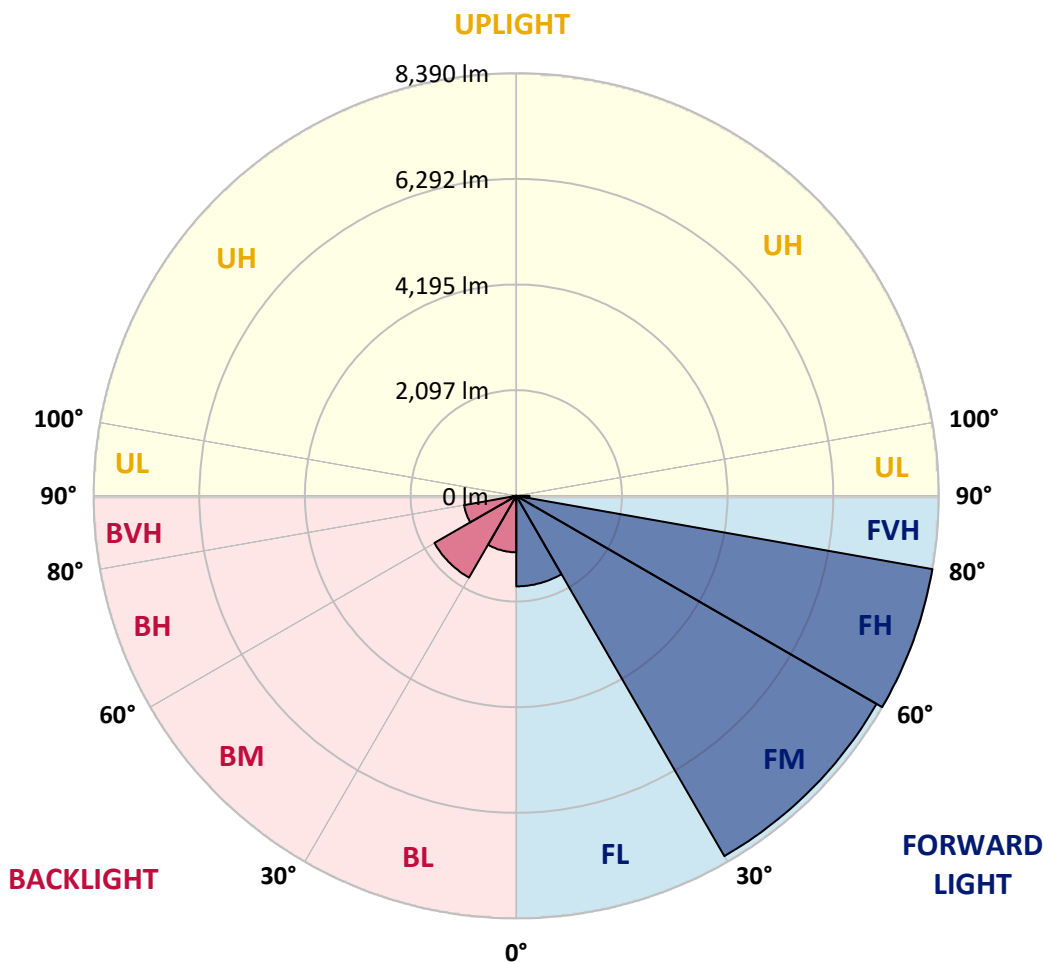


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.3	7.9			
FM (30°-60°)	8260.2	36.2			
FH (60°-80°)	8389.8	36.7			G4/12000
FVH (80°-90°)	263.4	1.2			G3/500
BL (0°-30°)	1120.4	4.9	B3/2500		
BM (30°-60°)	1875.6	8.2	B2/2500		
BH (60°-80°)	1052.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	73.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8
2.5°	3935.6	3954.2	3959.1	3971.4	3997.3	4018.3	4039.2	4036.8	4066.4	4078.7	4089.8
5°	3760.5	3765.4	3783.9	3808.6	3854.2	3912.2	3968.9	3970.1	4042.9	4100.9	4129.2
7.5°	3632.2	3648.2	3660.6	3686.5	3734.6	3797.5	3887.5	3895.0	4024.4	4139.1	4199.5
10°	3548.3	3566.9	3580.4	3612.4	3660.6	3730.9	3828.3	3841.9	4010.8	4199.5	4305.6
12.5°	3471.9	3490.4	3502.8	3544.6	3607.5	3693.9	3803.7	3819.7	4015.8	4269.9	4421.5
15°	3518.7	3533.5	3528.6	3541.0	3582.9	3681.6	3813.5	3829.6	4034.3	4337.7	4536.2
17.5°	3727.2	3739.5	3698.8	3651.9	3632.2	3705.0	3844.4	3861.6	4071.3	4408.0	4653.4
20°	4034.3	4067.6	3978.8	3874.0	3779.0	3788.9	3908.5	3927.0	4123.1	4478.3	4773.1
22.5°	4433.9	4458.6	4350.0	4177.4	4002.2	3912.2	4004.7	4015.8	4200.8	4569.6	4903.8
25°	4903.8	4918.6	4768.2	4546.1	4293.3	4123.1	4136.7	4156.4	4329.1	4673.2	5019.7
27.5°	5360.1	5407.0	5233.1	4961.8	4628.8	4345.1	4317.9	4330.3	4468.4	4731.1	5099.9
30°	5901.5	5897.9	5714.1	5399.6	4972.8	4586.8	4489.4	4486.9	4543.7	4759.5	5157.9
32.5°	6333.2	6383.8	6203.8	5860.9	5366.3	4837.2	4607.8	4602.9	4601.6	4808.8	5244.2
35°	6824.2	6831.5	6666.2	6320.9	5791.9	5151.7	4773.1	4748.4	4720.0	4914.9	5361.4
37.5°	7263.2	7297.7	7146.0	6758.8	6209.9	5478.6	5000.0	4984.0	4897.7	5098.7	5548.8
40°	7606.1	7632.0	7540.7	7172.0	6621.8	5831.3	5288.6	5259.0	5154.2	5399.6	5799.2
42.5°	7718.3	7771.4	7807.1	7625.8	7095.5	6249.4	5643.8	5606.8	5526.6	5856.0	6087.8
45°	7727.0	7810.8	7999.5	8008.1	7571.5	6750.2	6058.2	6032.3	6026.1	6440.6	6493.6
47.5°	7661.6	7746.7	8063.6	8235.0	7995.8	7255.8	6656.4	6615.7	6619.4	7163.3	6948.7
50°	7503.7	7604.8	7989.7	8380.6	8327.6	7781.2	7287.9	7274.3	7350.8	7988.4	7421.0
52.5°	7206.5	7328.6	7913.2	8471.9	8574.2	8233.9	8005.7	7967.4	8161.1	8883.8	7937.8
55°	6383.8	6567.6	7633.2	8522.5	8808.6	8666.8	8651.9	8721.1	8977.6	9860.6	8506.4
57.5°	5954.6	6092.8	7025.2	8531.1	9104.6	9169.9	9406.7	9424.0	9873.0	10897.9	9149.0
60°	5720.3	5842.4	6692.1	8474.3	9517.8	9792.8	10178.8	10240.5	10747.4	12021.5	9815.0
62.5°	5515.5	5620.4	6492.3	8278.3	9984.0	10716.6	11179.1	11208.7	11740.3	13262.2	10472.4
65°	5033.3	5152.9	6090.3	8082.1	10386.0	11871.0	12506.2	12471.6	12797.3	14332.7	10884.3
67.5°	4383.3	4535.1	5339.2	7405.1	10584.6	13132.7	14001.0	13957.8	13840.6	15034.5	11002.7
70°	3553.3	3634.7	4378.4	6234.6	9791.6	13795.1	15181.3	15135.7	14486.9	15127.0	10442.8
71°	3057.5	3184.5	3812.3	5537.8	9131.7	13592.7	15333.0	15320.6	14488.2	14871.8	10021.0
72.5°	2386.5	2464.3	3019.2	4290.8	7761.5	12443.3	14958.0	15004.9	14173.6	14162.6	9151.5
75°	1509.6	1544.2	1894.4	2525.9	4258.7	8812.3	12768.9	12895.9	12585.1	11592.2	6805.6
77.5°	876.9	921.3	1134.6	1488.6	1840.1	4783.0	9136.7	9274.8	8744.5	6382.6	2786.1
80°	510.6	559.9	747.4	864.6	844.9	1774.8	4652.2	4887.8	3786.4	1612.0	782.0
82.5°	283.7	317.0	525.4	526.6	450.1	579.7	1464.0	1531.8	1080.4	650.0	319.5
85°	206.0	233.1	339.2	307.1	215.9	249.2	509.3	534.0	436.6	273.8	103.6
87.5°	72.7	103.6	186.2	148.0	59.2	51.8	146.7	119.6	111.0	76.5	23.4
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°	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8	4073.8
2.5°	4096.0	4098.5	4086.1	4063.9	4041.7	4013.3	3981.2	3956.6	3945.5	3944.3	3943.0
5°	4140.3	4146.5	4099.6	4030.6	3954.2	3860.4	3780.2	3688.9	3665.5	3628.5	3639.6
7.5°	4211.9	4208.2	4115.7	3968.9	3790.1	3591.5	3423.7	3326.3	3225.2	3196.8	3198.1
10°	4314.3	4290.8	4115.7	3843.1	3544.6	3249.8	3015.6	2867.5	2787.4	2720.8	2696.1
12.5°	4422.8	4363.6	4076.2	3666.8	3228.9	2867.5	2615.9	2416.1	2364.3	2310.1	2311.3
15°	4526.4	4427.7	3998.5	3418.8	2888.5	2459.3	2215.1	2095.5	2079.4	2085.6	2084.3
17.5°	4620.2	4473.4	3880.2	3142.6	2491.3	2109.0	1979.5	1988.2	2031.3	2062.2	2065.9
20°	4715.1	4500.5	3703.7	2772.6	2116.4	1896.9	1901.8	1969.6	2035.0	2077.0	2083.1
22.5°	4805.1	4512.8	3496.6	2414.9	1845.1	1806.9	1879.6	1952.4	2016.5	2057.3	2063.4
25°	4864.3	4484.5	3203.0	2041.2	1711.9	1774.8	1851.2	1912.9	1967.2	2009.1	2019.0
27.5°	4880.4	4393.2	2839.2	1739.0	1650.3	1744.0	1814.3	1859.9	1901.8	1941.3	1948.7
30°	4871.7	4258.7	2439.6	1561.5	1614.5	1708.2	1762.5	1795.7	1846.3	1877.2	1883.3
32.5°	4858.2	4102.1	2022.7	1466.5	1584.9	1674.9	1706.9	1736.5	1735.4	1723.0	1731.6
35°	4863.1	3914.7	1684.8	1409.7	1559.0	1650.3	1677.3	1640.4	1534.3	1529.4	1524.4
37.5°	4889.0	3729.7	1439.3	1370.2	1545.4	1646.5	1661.3	1491.1	1397.4	1354.2	1343.1
40°	4955.6	3513.8	1277.8	1340.7	1544.2	1674.9	1588.6	1415.9	1235.8	1151.9	1145.8
42.5°	5044.4	3301.7	1179.1	1322.2	1559.0	1718.1	1559.0	1309.8	1113.7	1064.4	1057.0
45°	5176.3	3058.7	1124.8	1313.5	1581.2	1734.1	1549.1	1232.1	1064.4	1024.9	1024.9
47.5°	5325.6	2826.9	1095.2	1307.4	1609.5	1723.0	1461.5	1207.5	1040.9	1045.9	1069.3
50°	5473.6	2625.8	1073.0	1293.8	1634.2	1716.8	1425.8	1206.2	1047.1	1110.0	1151.9
52.5°	5645.0	2484.0	1045.9	1271.6	1634.2	1677.3	1414.6	1230.9	1064.4	1082.9	1101.4
55°	5852.2	2439.6	1011.3	1223.5	1604.6	1578.7	1408.5	1266.7	1076.7	1033.6	1040.9
57.5°	6126.0	2511.1	978.0	1163.1	1536.7	1476.3	1406.0	1276.5	1048.4	1012.6	1005.2
60°	6444.2	2653.0	968.2	1101.4	1444.2	1388.7	1391.2	1248.2	1008.9	971.9	978.0
62.5°	6667.5	2738.1	962.0	1054.5	1343.1	1292.6	1355.5	1213.6	991.6	959.6	965.8
65°	6667.5	2634.4	905.3	983.0	1212.4	1176.6	1312.3	1170.4	969.4	932.4	926.2
67.5°	6414.6	2332.2	818.9	875.7	1068.1	1044.7	1251.9	1118.7	936.1	907.7	892.9
70°	5756.1	1768.6	710.4	749.9	885.6	906.5	1174.2	1048.4	880.6	846.1	823.9
71°	5466.2	1540.5	664.8	685.8	815.3	846.1	1137.2	1018.8	856.0	806.6	767.1
72.5°	4907.5	1297.5	595.7	604.3	696.9	752.3	1059.5	962.0	809.1	738.8	694.4
75°	3728.4	947.2	479.7	474.8	515.5	597.0	896.6	857.2	709.2	614.2	588.3
77.5°	1610.8	515.5	358.9	362.6	350.2	452.7	705.5	736.3	608.1	499.5	476.1
80°	488.4	297.2	245.5	250.4	234.4	303.4	497.0	577.2	488.4	388.5	356.4
82.5°	250.4	177.6	167.7	165.3	149.2	171.4	300.9	394.7	349.1	243.0	214.6
85°	108.5	95.0	82.6	80.2	70.3	61.7	107.3	197.3	185.0	135.7	129.5
87.5°	27.2	24.7	16.1	14.8	8.6	1.3	0.0	0.0	0.0	0.0	0.0
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)