

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: P652362

Luminaire Tested: **GALN-SA4B-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652362
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-SA4B-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 19372.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

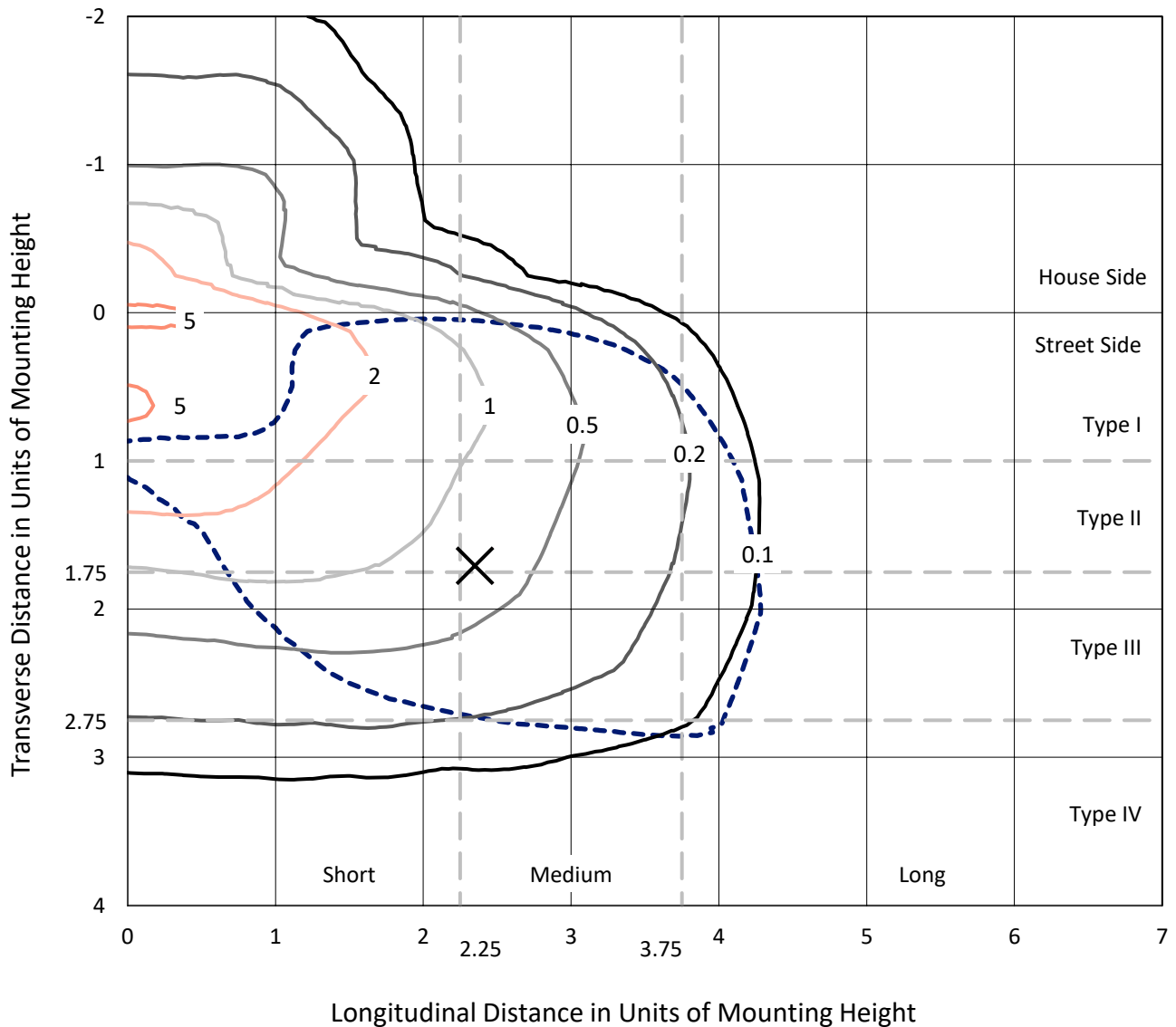
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652362
 CATALOG NUMBER: GALN-SA4B-840-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

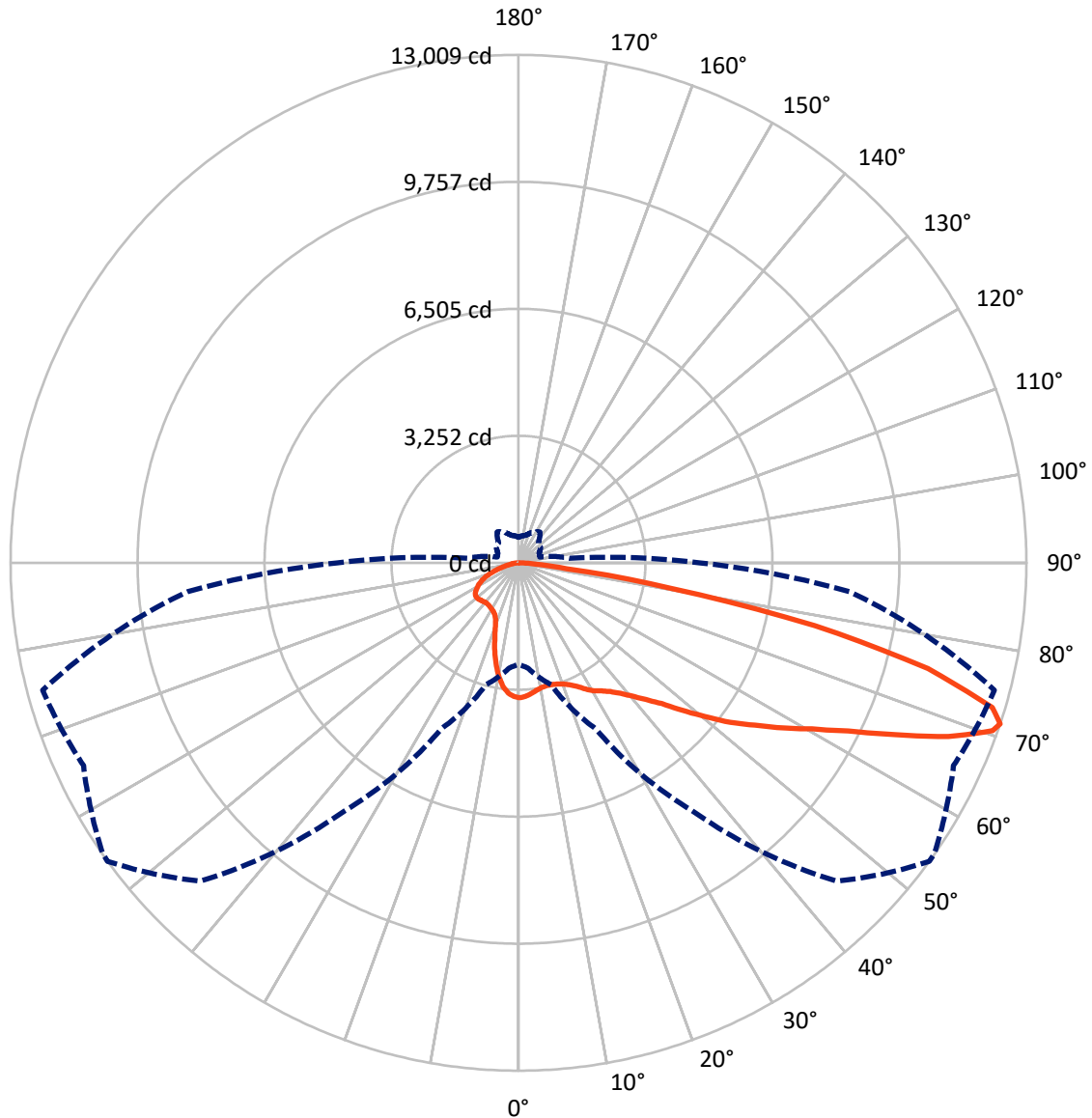
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P652362
CATALOG NUMBER: GALN-SA4B-840-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652362
 CATALOG NUMBER: GALN-SA4B-840-U-T3R

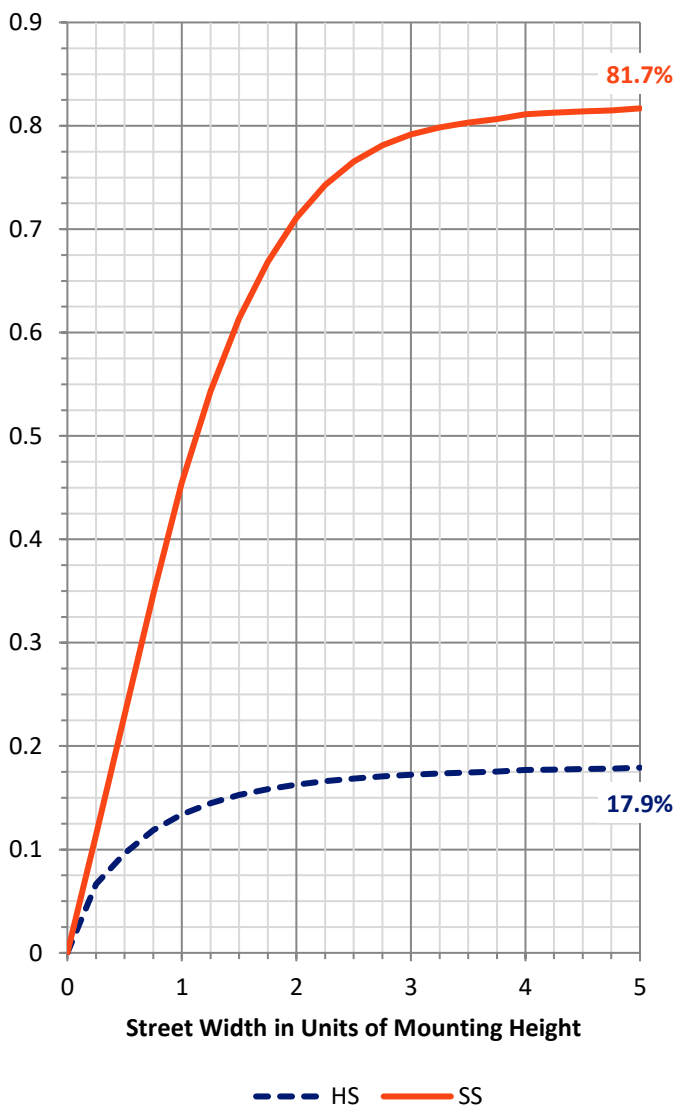
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3497.6	0.0	3497.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15874.9	0.0	15874.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	19372.4	0.0	19372.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.0	1.6
10°-20°	813.3	4.2
20°-30°	1354.2	7.0
30°-40°	2002.4	10.3
40°-50°	2820.4	14.6
50°-60°	3776.7	19.5
60°-70°	4760.2	24.6
70°-80°	3251.2	16.8
80°-90°	285.9	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°	19372.4	100.0
0°-180°	19372.4	100.0

Coefficient of Utilization

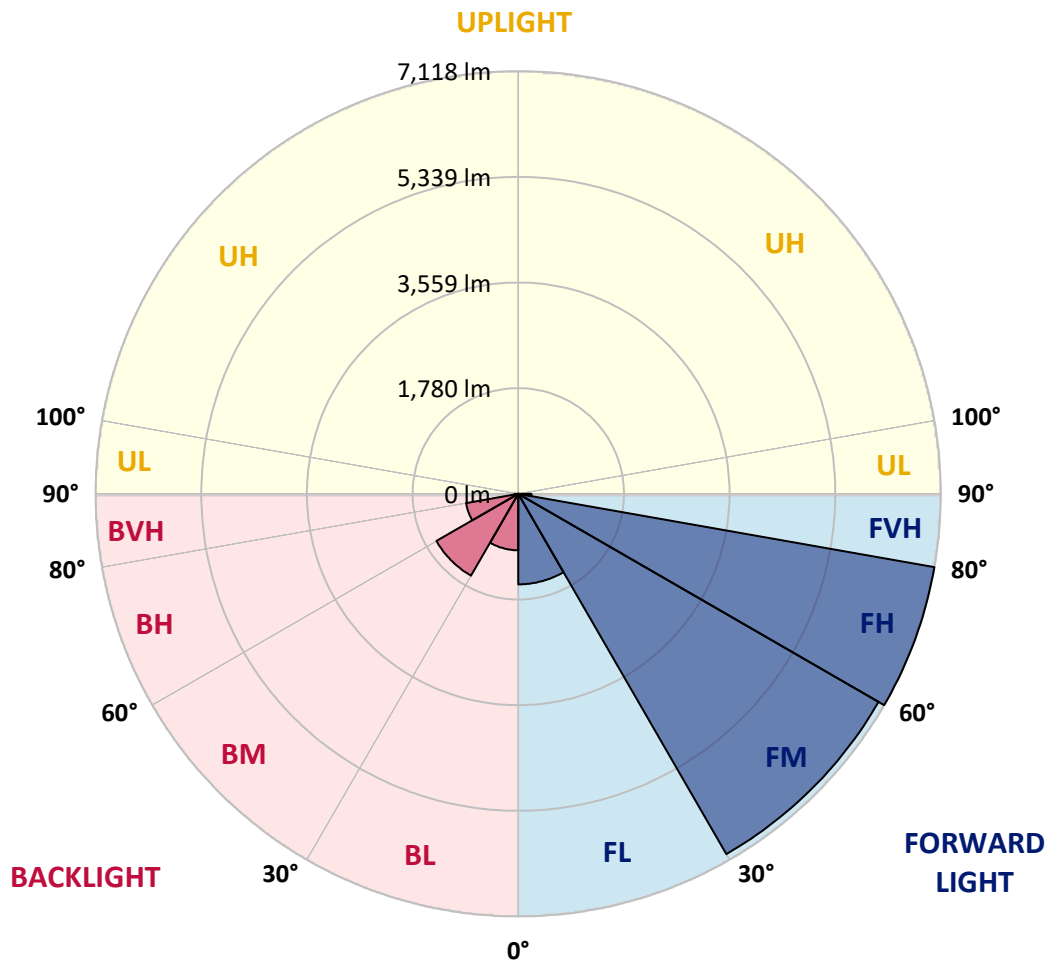


REPORT NUMBER: P652362
 CATALOG NUMBER: GALN-SA4B-840-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.9	7.9			
FM (30°-60°)	7008.2	36.2			
FH (60°-80°)	7118.2	36.7			G3/7500
FVH (80°-90°)	223.5	1.2			G2/225
BL (0°-30°)	950.6	4.9	B2/1000		
BM (30°-60°)	1591.3	8.2	B2/2500		
BH (60°-80°)	893.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	62.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





REPORT NUMBER: P652362

CATALOG NUMBER: GALN-SA4B-840-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3
2.5°	3339.1	3354.8	3359.0	3369.5	3391.4	3409.2	3427.0	3425.0	3450.0	3460.5	3470.0
5°	3190.5	3194.7	3210.4	3231.4	3270.1	3319.3	3367.4	3368.5	3430.2	3479.4	3503.4
7.5°	3081.7	3095.3	3105.8	3127.8	3168.6	3222.0	3298.3	3304.6	3414.5	3511.8	3563.1
10°	3010.5	3026.3	3037.8	3064.9	3105.8	3165.4	3248.1	3259.6	3402.9	3563.1	3653.1
12.5°	2945.7	2961.4	2971.8	3007.4	3060.8	3134.1	3227.2	3240.8	3407.1	3622.7	3751.4
15°	2985.5	2998.0	2993.8	3004.3	3039.9	3123.6	3235.5	3249.1	3422.9	3680.3	3848.8
17.5°	3162.2	3172.8	3138.2	3098.4	3081.7	3143.5	3261.7	3276.4	3454.2	3739.9	3948.2
20°	3422.9	3451.1	3375.8	3286.8	3206.2	3214.6	3316.1	3331.8	3498.2	3799.6	4049.7
22.5°	3761.9	3782.8	3690.7	3544.2	3395.6	3319.3	3397.7	3407.1	3564.1	3877.0	4160.6
25°	4160.6	4173.1	4045.5	3857.1	3642.6	3498.2	3509.7	3526.5	3672.9	3964.9	4258.9
27.5°	4547.7	4587.5	4440.0	4209.8	3927.2	3686.5	3663.5	3674.0	3791.1	4014.1	4326.9
30°	5007.1	5004.0	4848.0	4581.3	4219.1	3891.6	3809.0	3806.9	3855.0	4038.1	4376.1
32.5°	5373.4	5416.3	5263.5	4972.6	4553.0	4104.1	3909.4	3905.3	3904.2	4080.0	4449.4
35°	5789.9	5796.1	5655.9	5362.9	4914.0	4370.9	4049.7	4028.7	4004.7	4170.0	4548.8
37.5°	6162.3	6191.7	6062.9	5734.4	5268.7	4648.2	4242.2	4228.5	4155.3	4325.9	4707.8
40°	6453.2	6475.3	6397.8	6085.0	5618.2	4947.5	4487.1	4461.9	4373.0	4581.3	4920.3
42.5°	6548.5	6593.5	6623.9	6470.0	6020.0	5302.3	4788.4	4757.0	4689.0	4968.4	5165.2
45°	6555.8	6627.0	6787.1	6794.4	6424.0	5727.0	5140.0	5118.1	5112.8	5464.4	5509.4
47.5°	6500.3	6572.6	6841.5	6986.9	6783.9	6156.1	5647.6	5613.0	5616.1	6077.7	5895.6
50°	6366.5	6452.2	6778.7	7110.4	7065.4	6601.8	6183.3	6171.8	6236.7	6777.7	6296.3
52.5°	6114.2	6217.8	6713.9	7187.9	7274.7	6985.9	6792.3	6759.9	6924.2	7537.4	6734.7
55°	5416.3	5572.2	6476.3	7230.7	7473.5	7353.2	7340.7	7399.3	7616.9	8366.1	7217.1
57.5°	5052.1	5169.3	5960.4	7238.1	7724.7	7780.2	7981.1	7995.7	8376.6	9246.2	7762.3
60°	4853.3	4956.9	5677.8	7190.0	8075.2	8308.6	8636.1	8688.5	9118.5	10199.5	8327.4
62.5°	4679.6	4768.6	5508.4	7023.6	8470.8	9092.4	9484.8	9509.9	9960.9	11252.2	8885.2
65°	4270.4	4371.9	5167.2	6857.2	8811.9	10071.8	10610.7	10581.4	10857.6	12160.4	9234.7
67.5°	3719.0	3847.7	4530.0	6282.7	8980.4	11142.3	11879.0	11842.4	11743.0	12755.9	9335.1
70°	3014.7	3083.8	3714.8	5289.6	8307.6	11704.2	12880.4	12841.6	12291.3	12834.3	8860.0
71°	2594.1	2701.9	3234.5	4698.4	7747.7	11532.6	13009.1	12998.7	12292.3	12617.8	8502.2
72.5°	2024.8	2090.7	2561.6	3640.5	6585.1	10557.3	12691.0	12730.7	12025.5	12016.0	7764.4
75°	1280.8	1310.1	1607.3	2143.0	3613.3	7476.7	10833.6	10941.4	10677.7	9835.3	5774.1
77.5°	744.0	781.7	962.7	1263.0	1561.2	4058.0	7751.9	7869.1	7419.1	5415.2	2363.9
80°	433.2	475.1	634.1	733.5	716.8	1505.8	3947.1	4147.0	3212.5	1367.6	663.5
82.5°	240.7	269.0	445.8	446.8	382.0	491.8	1242.1	1299.7	916.7	551.4	271.1
85°	174.8	197.8	287.8	260.5	183.1	211.3	432.2	453.1	370.5	232.3	87.9
87.5°	61.7	87.9	158.0	125.6	50.2	44.0	124.6	101.5	94.2	64.8	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P652362
 CATALOG NUMBER: GALN-SA4B-840-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3	3456.3
2.5°	3475.2	3477.3	3466.8	3447.9	3429.1	3405.0	3377.9	3356.9	3347.5	3346.4	3345.4
5°	3512.9	3518.1	3478.3	3419.7	3354.8	3275.3	3207.3	3129.9	3109.9	3078.6	3088.0
7.5°	3573.5	3570.4	3491.9	3367.4	3215.6	3047.2	2904.9	2822.2	2736.4	2712.3	2713.4
10°	3660.4	3640.5	3491.9	3260.6	3007.4	2757.3	2558.5	2432.9	2364.9	2308.4	2287.4
12.5°	3752.5	3702.3	3458.4	3111.0	2739.6	2432.9	2219.5	2049.9	2006.0	1960.0	1961.0
15°	3840.3	3756.7	3392.5	2900.7	2450.8	2086.6	1879.4	1777.9	1764.2	1769.5	1768.5
17.5°	3919.9	3795.3	3292.0	2666.3	2113.8	1789.4	1679.5	1686.8	1723.5	1749.6	1752.7
20°	4000.5	3818.4	3142.4	2352.4	1795.6	1609.4	1613.5	1671.2	1726.6	1762.1	1767.4
22.5°	4076.8	3828.8	2966.6	2048.9	1565.4	1533.0	1594.7	1656.5	1710.9	1745.4	1750.6
25°	4127.1	3804.8	2717.5	1731.8	1452.4	1505.8	1570.7	1623.0	1669.0	1704.6	1713.0
27.5°	4140.7	3727.3	2408.9	1475.5	1400.1	1479.7	1539.3	1578.0	1613.5	1647.1	1653.3
30°	4133.3	3613.3	2069.8	1324.7	1369.7	1449.3	1495.3	1523.6	1566.5	1592.7	1597.9
32.5°	4121.8	3480.4	1716.1	1244.2	1344.7	1421.0	1448.3	1473.3	1472.3	1461.8	1469.1
35°	4126.0	3321.4	1429.4	1196.1	1322.6	1400.1	1423.1	1391.8	1301.8	1297.6	1293.4
37.5°	4148.0	3164.3	1221.1	1162.6	1311.2	1397.0	1409.5	1265.1	1185.6	1149.0	1139.6
40°	4204.5	2981.3	1084.1	1137.5	1310.1	1421.0	1347.8	1201.3	1048.5	977.3	972.1
42.5°	4279.8	2801.3	1000.4	1121.7	1322.6	1457.7	1322.6	1111.3	944.9	903.1	896.8
45°	4391.9	2595.2	954.4	1114.4	1341.5	1471.2	1314.3	1045.4	903.1	869.6	869.6
47.5°	4518.4	2398.4	929.2	1109.2	1365.6	1461.8	1240.0	1024.4	883.2	887.3	907.3
50°	4644.0	2227.8	910.4	1097.7	1386.5	1456.6	1209.7	1023.4	888.4	941.8	977.3
52.5°	4789.5	2107.5	887.3	1078.8	1386.5	1423.1	1200.3	1044.4	903.1	918.8	934.4
55°	4965.3	2069.8	858.1	1038.0	1361.4	1339.5	1195.0	1074.7	913.5	876.9	883.2
57.5°	5197.5	2130.5	829.8	986.7	1303.8	1252.6	1193.0	1083.0	889.4	859.1	852.9
60°	5467.5	2250.9	821.4	934.4	1225.3	1178.2	1180.3	1059.0	856.0	824.6	829.8
62.5°	5657.0	2323.1	816.2	894.7	1139.6	1096.7	1150.0	1029.7	841.3	814.1	819.4
65°	5657.0	2235.1	768.1	834.0	1028.6	998.3	1113.4	993.1	822.5	791.1	785.8
67.5°	5442.4	1978.8	694.8	742.9	906.2	886.3	1062.1	949.1	794.2	770.2	757.6
70°	4883.7	1500.6	602.7	636.2	751.3	769.1	996.2	889.4	747.1	717.9	699.0
71°	4637.8	1307.0	564.1	581.8	691.7	717.9	964.8	864.4	726.2	684.3	650.8
72.5°	4163.7	1100.9	505.4	512.8	591.2	638.3	898.9	816.2	686.4	626.8	589.1
75°	3163.3	803.7	407.0	402.8	437.4	506.5	760.8	727.3	601.7	521.1	499.1
77.5°	1366.6	437.4	304.5	307.6	297.2	384.0	598.5	624.7	515.9	423.8	403.9
80°	414.4	252.2	208.2	212.4	198.8	257.4	421.7	489.7	414.4	329.6	302.4
82.5°	212.4	150.7	142.3	140.2	126.7	145.5	255.3	334.9	296.1	206.1	182.1
85°	92.1	80.6	70.1	68.0	59.6	52.3	91.1	167.4	156.9	115.1	109.8
87.5°	23.0	20.9	13.6	12.5	7.3	1.0	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)