

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: P522867

Luminaire Tested: **GALN-SA8A-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33655 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

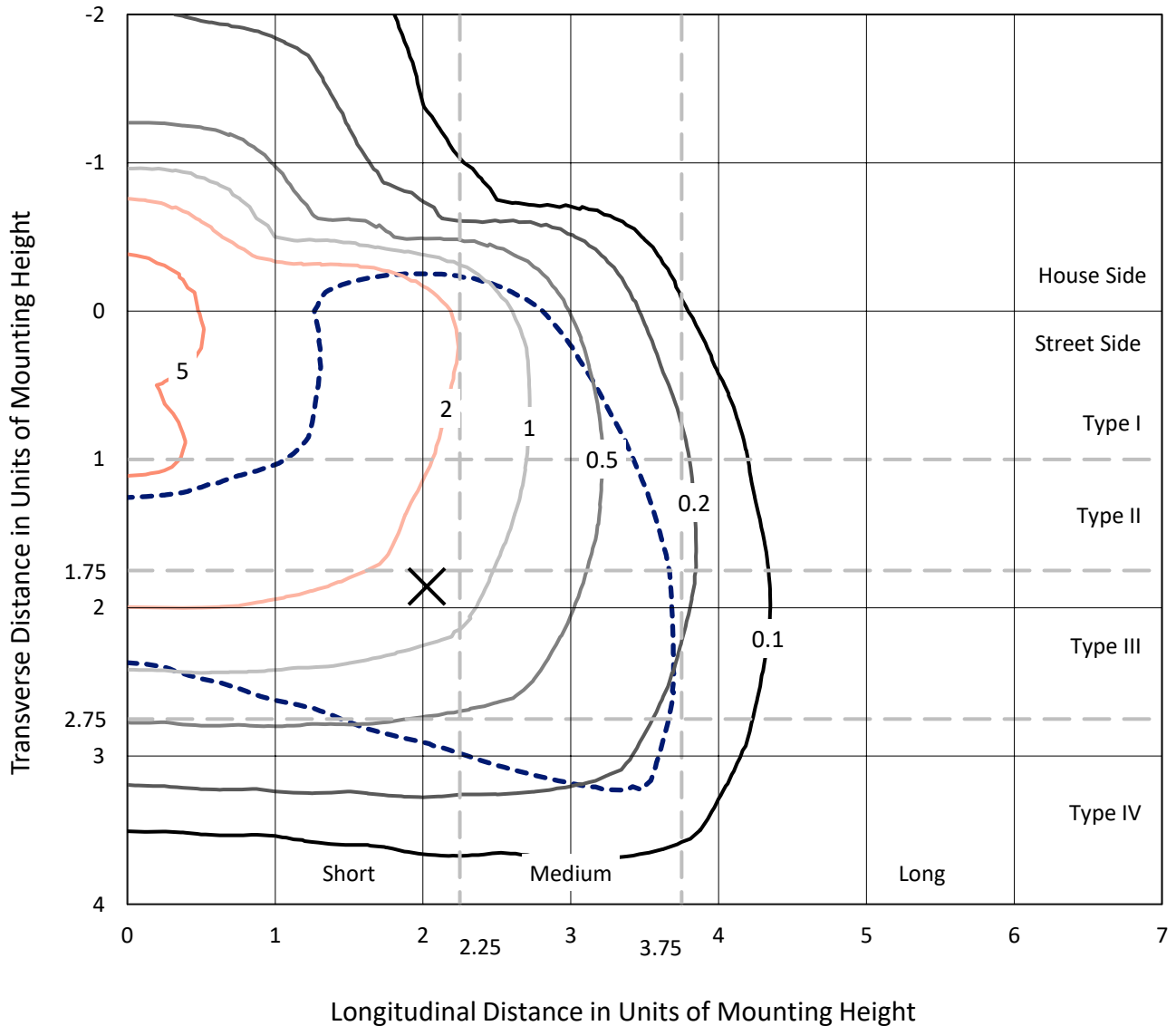
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

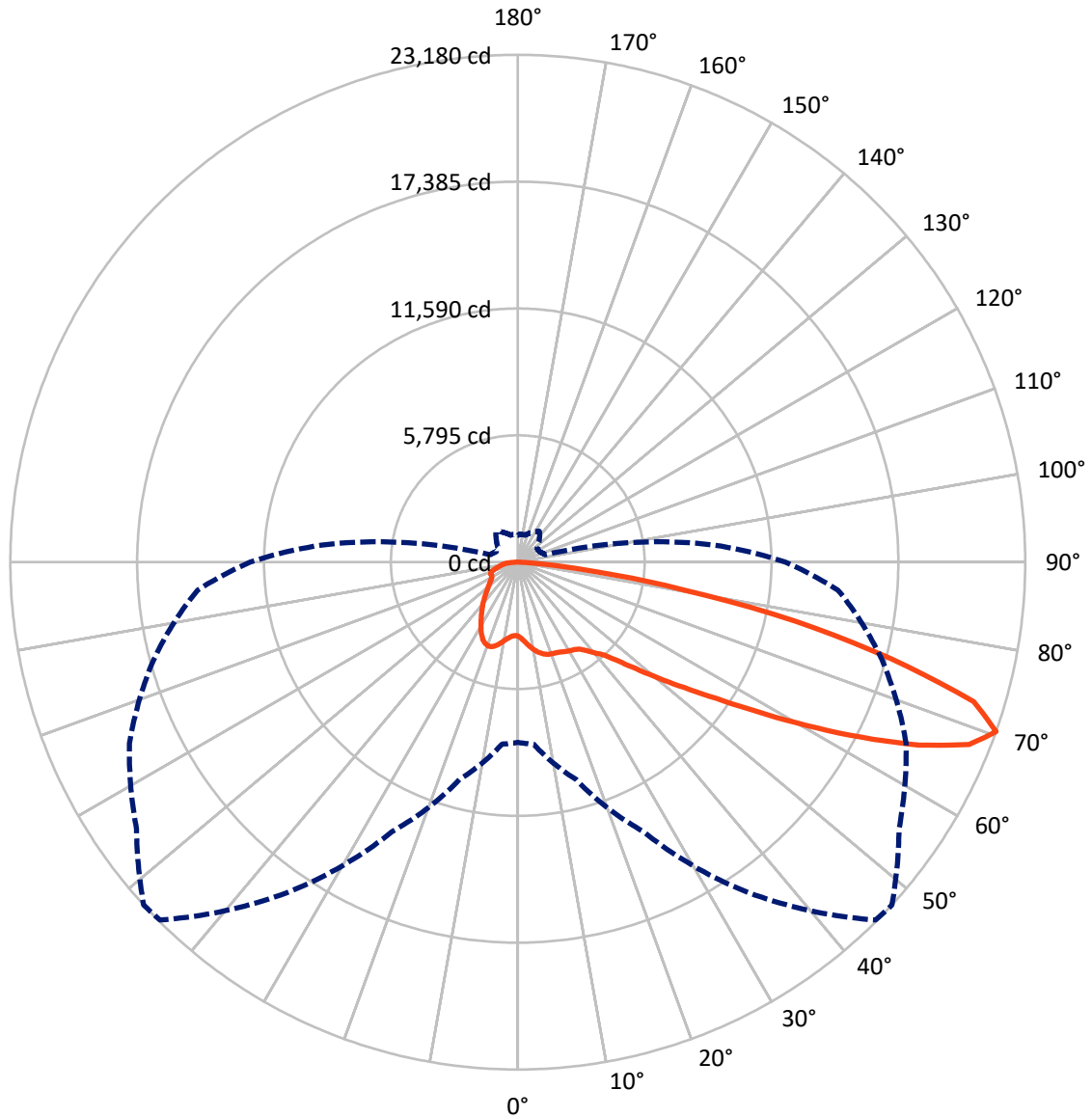
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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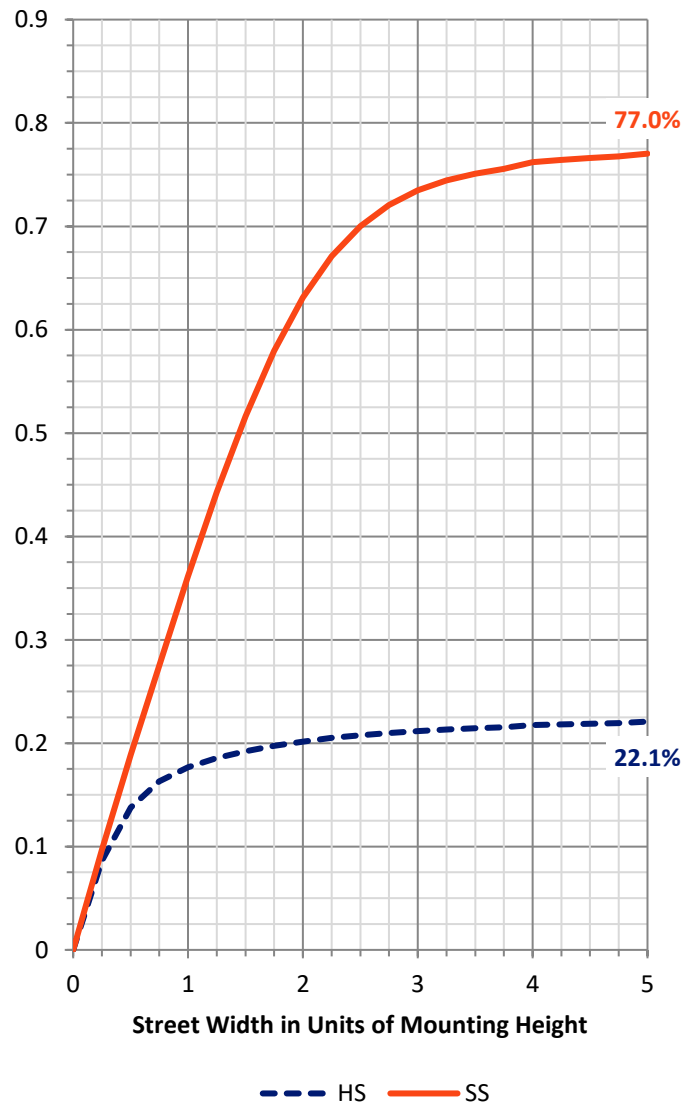
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7620.1	0.0	7620.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26034.9	0.0	26034.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	33655.0	0.0	33655.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.3	1.0
10°-20°	1164.3	3.5
20°-30°	1936.1	5.8
30°-40°	2744.2	8.2
40°-50°	4051.0	12.0
50°-60°	7016.5	20.8
60°-70°	9911.1	29.4
70°-80°	5697.4	16.9
80°-90°	786.1	2.3
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°	33655.0	100.0
0°-180°	33655.0	100.0



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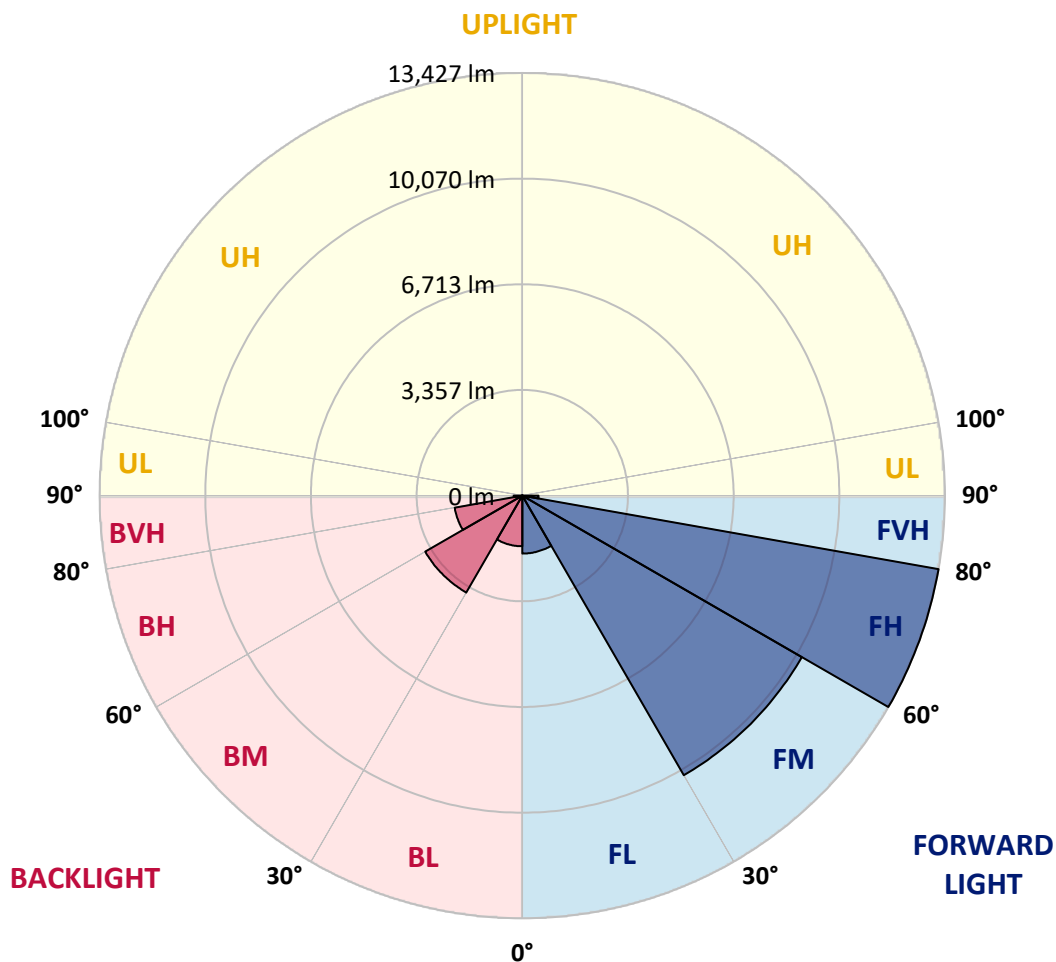
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1840.4	5.5			
FM	(30°-60°)	10254.0	30.5			
FH	(60°-80°)	13426.9	39.9			G5
FVH	(80°-90°)	513.5	1.5			G4/750
BL	(0°-30°)	1608.3	4.8	B3/2500		
BM	(30°-60°)	3557.7	10.6	B3/5000		
BH	(60°-80°)	2181.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	272.6	0.8			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°	47.5°	55°	65°	75°	85°
0°	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6
2.5°	3596.5	3583.9	3582.1	3555.0	3540.6	3513.6	3502.8	3477.6	3447.0	3416.4	3387.6
5°	3879.2	3879.2	3866.6	3828.8	3769.4	3708.1	3681.1	3632.5	3546.0	3475.8	3416.4
7.5°	4169.2	4172.8	4147.6	4091.7	4007.1	3908.0	3882.8	3810.8	3688.3	3585.7	3497.4
10°	4419.5	4419.5	4385.3	4309.6	4203.4	4095.3	4070.1	3989.1	3852.2	3724.3	3609.1
12.5°	4610.4	4610.4	4565.4	4466.3	4351.1	4253.8	4225.0	4147.6	4019.7	3877.4	3731.5
15°	4734.7	4725.7	4675.2	4563.6	4451.9	4367.3	4347.5	4282.6	4165.6	4021.5	3857.6
17.5°	4740.1	4736.5	4687.8	4594.2	4496.9	4439.3	4426.7	4383.5	4291.6	4154.8	3981.9
20°	4635.6	4642.8	4610.4	4543.8	4496.9	4471.7	4466.3	4451.9	4387.1	4259.2	4086.3
22.5°	4524.0	4536.6	4505.9	4469.9	4466.3	4491.5	4495.1	4498.7	4457.3	4333.1	4174.6
25°	4496.9	4505.9	4475.3	4442.9	4462.7	4529.4	4543.8	4558.2	4525.8	4421.3	4279.0
27.5°	4633.8	4626.6	4567.2	4496.9	4509.5	4599.6	4619.4	4635.6	4619.4	4529.4	4408.7
30°	5021.0	4997.6	4878.7	4673.4	4608.6	4671.6	4691.4	4736.5	4736.5	4669.8	4549.2
32.5°	5669.3	5624.3	5406.4	5003.0	4777.9	4740.1	4759.9	4833.7	4871.5	4819.3	4687.8
35°	6456.4	6409.5	6098.0	5555.9	5087.6	4876.9	4871.5	4954.4	5055.2	4938.2	4767.1
37.5°	7247.0	7198.3	6823.7	6215.0	5539.7	5165.1	5132.7	5161.5	5204.7	4990.4	4876.9
40°	8037.6	7980.0	7652.2	6951.6	6092.6	5546.9	5462.2	5332.6	5314.6	5161.5	5089.4
42.5°	8821.0	8768.8	8603.1	7778.2	6755.3	5919.7	5790.0	5566.7	5635.1	5543.3	5480.3
45°	9611.6	9615.2	9438.7	8705.7	7554.9	6607.6	6432.9	6083.6	6245.6	6211.4	6247.4
47.5°	10312.2	10303.2	10240.1	9606.2	8547.2	7493.7	7268.6	6863.4	7140.7	7266.8	7542.3
50°	10991.1	10985.7	10989.3	10627.3	9699.8	8547.2	8298.7	7873.7	8498.6	8936.2	9429.7
52.5°	11963.6	11994.2	11776.3	11680.9	11101.0	9791.7	9517.9	9078.5	10103.3	10793.0	11756.5
55°	12939.7	12914.5	12743.4	12842.5	12566.9	11264.9	10978.5	10629.1	11889.8	12644.4	14092.3
57.5°	13514.2	13523.2	13697.9	14182.4	14376.9	13101.8	12842.5	12572.3	13897.8	14432.7	16170.6
60°	14031.1	14072.5	14575.0	15489.9	16017.5	15358.4	15127.9	14864.9	15740.2	15952.7	17975.1
62.5°	14193.2	14321.0	15198.1	16566.8	17616.8	17904.9	17618.6	17038.7	17494.3	17411.5	19198.0
65°	13384.6	13559.3	15131.5	16970.2	19044.9	20321.8	20139.9	19062.9	18989.1	18490.2	19397.9
67.5°	11255.9	11430.5	13449.4	16123.8	19635.6	22414.5	22232.6	20539.7	19896.7	18591.1	17885.1
70°	8235.7	8345.5	10276.1	13575.5	18448.8	23116.8	23179.9	21260.1	19572.6	17220.6	14684.8
72.5°	4745.5	4988.6	6341.1	9550.4	15072.0	21341.1	21778.7	19761.7	17523.1	14366.1	10267.1
75°	2040.5	2045.9	2931.9	5267.7	10207.7	17153.9	17577.1	16381.3	13761.0	9934.0	5482.1
77.5°	970.7	988.7	1289.5	2352.0	5618.9	11852.0	12993.8	11572.8	8801.2	4772.5	2071.1
80°	630.3	642.9	788.8	1167.0	2755.4	6872.4	7668.4	6676.1	3882.8	1705.5	893.3
82.5°	381.8	385.4	527.7	713.2	1516.4	3112.0	3668.5	2897.7	1656.9	1021.1	525.9
85°	232.3	234.1	320.6	441.2	920.3	1075.2	1104.0	1095.0	972.5	668.1	280.9
87.5°	111.7	115.3	165.7	208.9	362.0	333.2	315.2	365.6	459.2	360.2	120.7
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°	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6
2.5°	3375.0	3369.6	3356.9	3351.5	3347.9	3349.7	3347.9	3347.9	3349.7	3349.7	3349.7
5°	3391.2	3382.2	3362.3	3362.3	3373.2	3398.4	3421.8	3439.8	3459.6	3457.8	3457.8
7.5°	3461.4	3445.2	3421.8	3429.0	3456.0	3495.6	3537.0	3576.7	3616.3	3619.9	3618.1
10°	3564.1	3547.8	3522.6	3531.6	3574.9	3634.3	3686.5	3744.1	3787.4	3800.0	3796.4
12.5°	3681.1	3648.7	3627.1	3652.3	3720.7	3800.0	3850.4	3893.6	3924.2	3942.3	3935.0
15°	3800.0	3769.4	3744.1	3796.4	3879.2	3953.1	3978.3	3985.5	3990.9	4008.9	4005.3
17.5°	3915.2	3873.8	3864.8	3933.2	4012.5	4044.9	4030.5	3999.9	3976.5	3990.9	3989.1
20°	4017.9	3985.5	3981.9	4050.3	4080.9	4050.3	3989.1	3935.0	3893.6	3897.2	3895.4
22.5°	4115.1	4089.9	4093.5	4122.3	4073.7	3969.3	3868.4	3794.6	3749.5	3758.6	3764.0
25°	4223.2	4198.0	4207.0	4160.2	3999.9	3818.0	3672.1	3609.1	3591.1	3609.1	3621.7
27.5°	4363.7	4347.5	4342.1	4162.0	3868.4	3594.7	3429.0	3405.6	3421.8	3461.4	3481.2
30°	4514.9	4514.9	4486.1	4131.3	3688.3	3326.3	3182.3	3185.9	3241.7	3297.5	3317.3
32.5°	4660.8	4691.4	4601.4	4048.5	3456.0	3065.2	2955.3	2958.9	3007.6	3076.0	3094.0
35°	4781.5	4869.7	4700.4	3897.2	3182.3	2845.5	2762.6	2714.0	2715.8	2768.0	2782.4
37.5°	4947.2	5111.1	4758.1	3672.1	2890.5	2658.2	2564.5	2479.9	2424.1	2402.4	2402.4
40°	5235.3	5476.6	4772.5	3338.9	2615.0	2479.9	2346.6	2245.8	2137.7	2040.5	2022.5
42.5°	5723.4	6027.7	4743.7	2955.3	2366.4	2283.6	2153.9	2029.7	1880.2	1743.3	1732.5
45°	6587.8	6744.5	4666.2	2557.3	2144.9	2094.5	1968.4	1833.4	1674.9	1552.4	1543.4
47.5°	7972.7	7751.2	4563.6	2204.3	1943.2	1928.8	1831.6	1674.9	1516.4	1431.7	1422.7
50°	9995.2	9336.1	4549.2	1948.6	1781.1	1788.3	1709.1	1565.0	1426.3	1356.1	1345.3
52.5°	12430.1	11250.5	4644.6	1768.5	1638.9	1665.9	1626.2	1493.0	1370.5	1311.1	1300.3
55°	14792.9	12972.1	4702.2	1628.0	1505.6	1556.0	1561.4	1449.8	1338.1	1278.7	1271.5
57.5°	16710.9	14268.8	4446.5	1500.2	1390.3	1467.8	1507.4	1424.5	1321.9	1276.9	1269.7
60°	18045.4	14881.1	3718.9	1386.7	1305.7	1397.5	1487.6	1426.3	1361.5	1366.9	1370.5
62.5°	18470.4	14609.2	2789.7	1302.1	1248.0	1374.1	1520.0	1500.2	1433.5	1475.0	1482.2
65°	17766.2	13485.4	2022.5	1235.4	1197.6	1390.3	1617.2	1554.2	1408.3	1438.9	1438.9
67.5°	15408.8	11617.8	1574.0	1174.2	1140.0	1420.9	1714.5	1548.8	1348.9	1384.9	1352.5
70°	12223.0	8986.7	1311.1	1105.8	1078.8	1375.9	1723.5	1493.0	1278.7	1285.9	1224.6
72.5°	8111.4	5908.9	1127.4	1040.9	985.1	1237.2	1649.7	1420.9	1210.2	1168.8	1107.6
75°	3974.7	2946.3	983.3	959.9	862.6	1077.0	1548.8	1352.5	1136.4	1071.6	1037.3
77.5°	1539.8	1253.5	839.2	857.2	751.0	949.1	1415.5	1255.3	1039.1	950.9	923.9
80°	747.4	711.4	688.0	715.0	617.7	808.6	1293.1	1170.6	949.1	851.8	812.2
82.5°	464.6	439.4	527.7	556.5	475.4	738.4	1226.4	1098.6	835.6	706.0	673.6
85°	235.9	252.1	353.0	380.0	340.4	587.1	1010.3	824.8	603.3	500.7	504.3
87.5°	90.0	120.7	185.5	199.9	181.9	309.8	556.5	480.9	387.2	262.9	243.1
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)