

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: P528180

Luminaire Tested: **GALN-SA3B-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13112 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

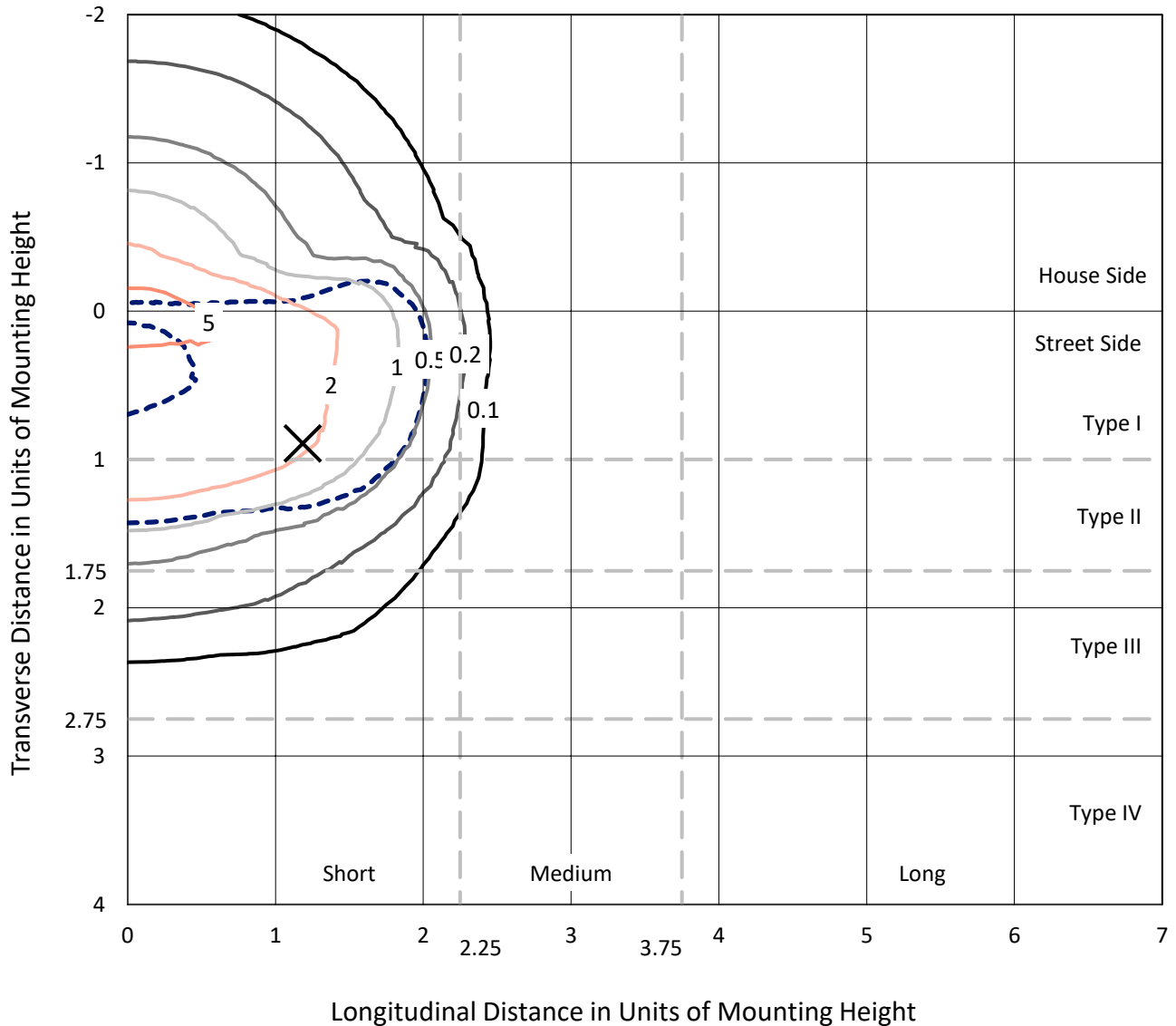
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

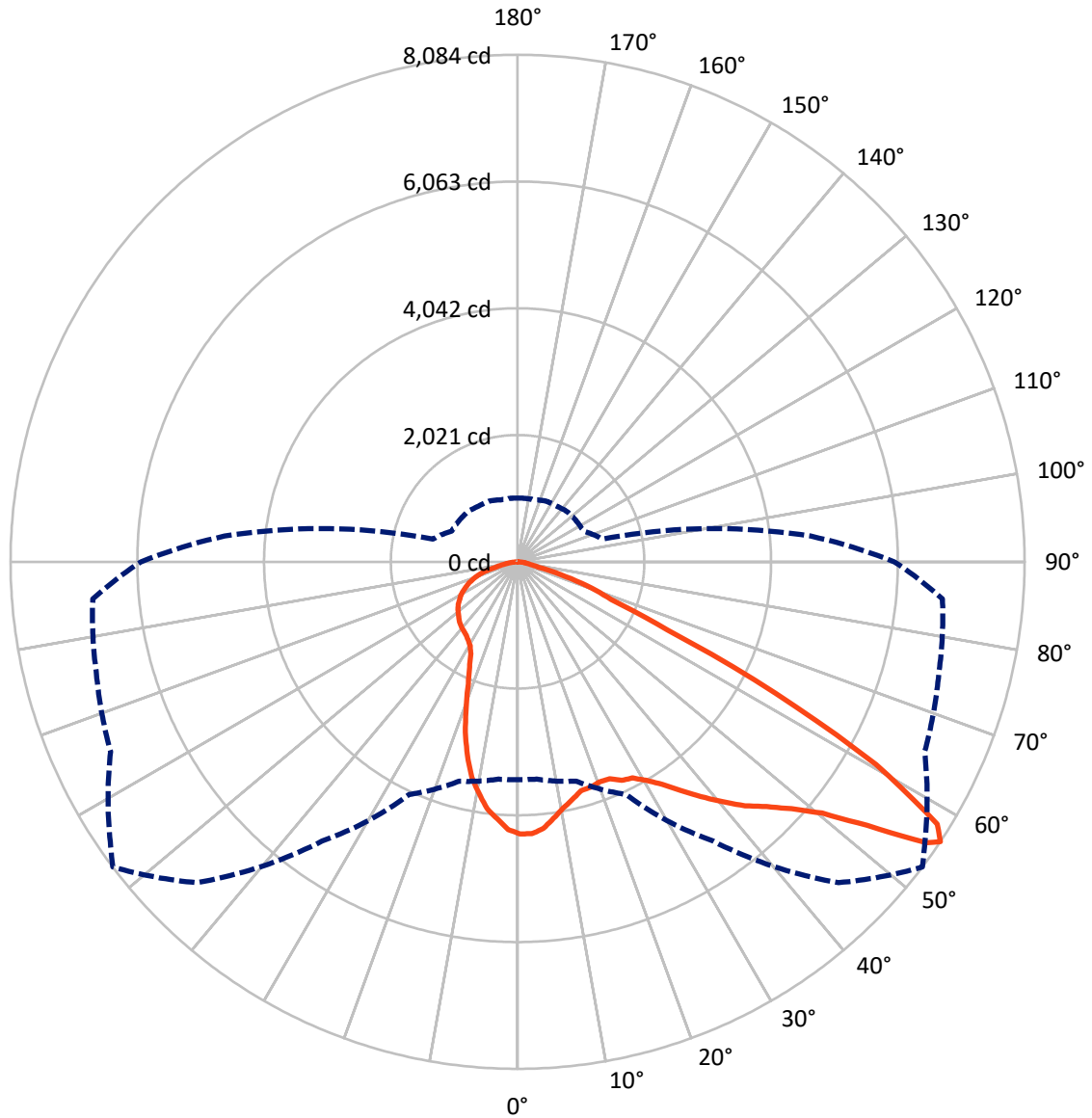
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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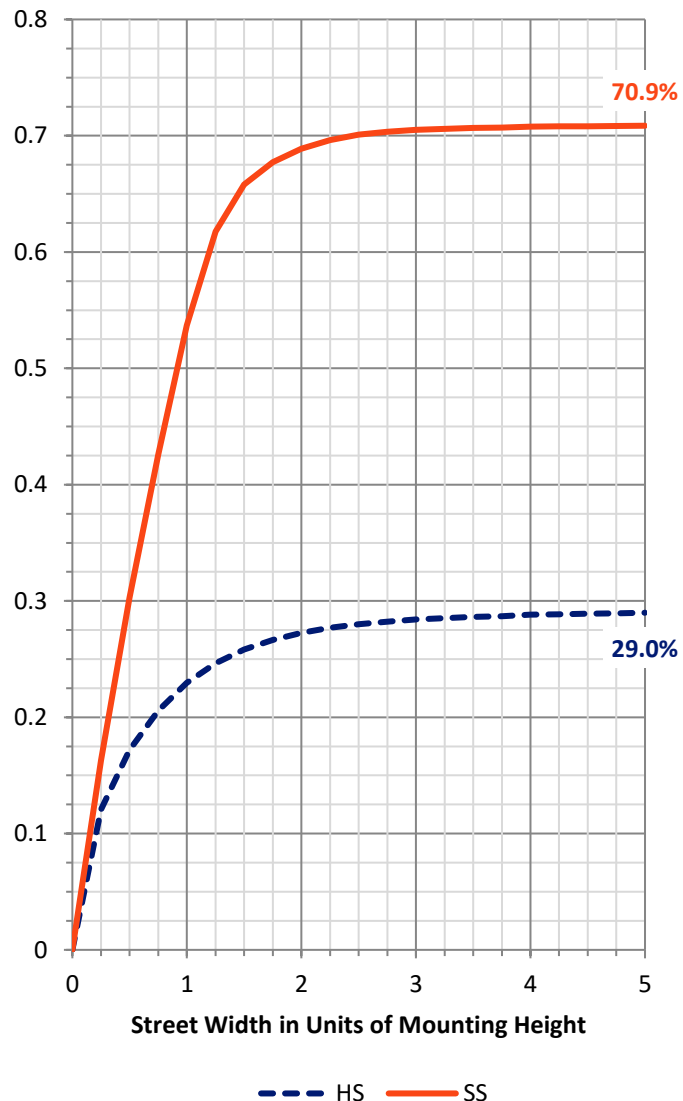
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3826.4	0.0	3826.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	9285.6	0.0	9285.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	13112.0	0.0	13112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.0	2.9
10°-20°	959.1	7.3
20°-30°	1414.4	10.8
30°-40°	2020.8	15.4
40°-50°	2781.4	21.2
50°-60°	3286.9	25.1
60°-70°	1751.7	13.4
70°-80°	444.4	3.4
80°-90°	69.3	0.5
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°	13112.0	100.0
0°-180°	13112.0	100.0

Coefficient of Utilization



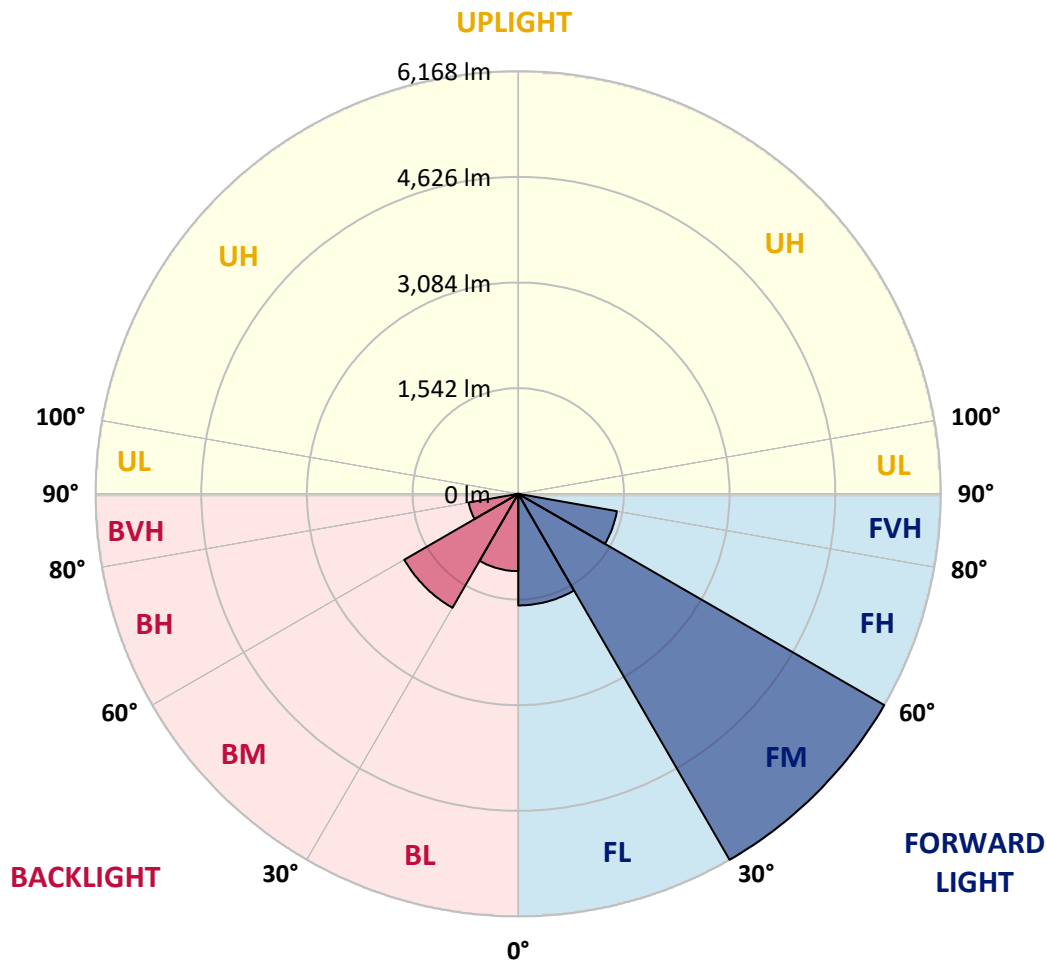
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1629.0	12.4			
FM (30°-60°)	6167.6	47.0			
FH (60°-80°)	1461.2	11.1			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	1128.6	8.6	B3/2500		
BM (30°-60°)	1921.5	14.7	B2/2500		
BH (60°-80°)	734.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	41.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0
2.5°	4284.1	4247.1	4269.0	4260.6	4329.6	4349.7	4339.6	4348.1	4386.7	4368.2	4329.6
5°	4003.2	4055.4	4065.5	4090.7	4131.1	4210.1	4272.4	4289.2	4307.7	4393.5	4385.1
7.5°	3747.6	3782.9	3764.4	3838.4	3925.9	4053.7	4129.4	4142.9	4312.7	4359.8	4395.2
10°	3586.1	3550.8	3634.9	3655.1	3754.3	3900.6	3991.5	4047.0	4201.7	4388.4	4410.3
12.5°	3436.4	3424.6	3475.1	3532.3	3643.3	3794.7	3887.2	3909.0	4147.9	4344.7	4447.3
15°	3325.4	3311.9	3362.4	3404.4	3534.0	3668.5	3786.3	3848.5	4089.0	4319.5	4415.3
17.5°	3237.9	3236.2	3264.8	3340.5	3473.4	3586.1	3776.2	3779.5	4058.7	4358.2	4442.3
20°	3232.9	3231.2	3236.2	3320.3	3441.4	3579.4	3744.2	3774.5	4058.7	4331.2	4443.9
22.5°	3274.9	3248.0	3278.3	3332.1	3419.6	3591.1	3756.0	3823.3	4156.3	4464.1	4519.6
25°	3342.2	3348.9	3365.8	3384.3	3434.7	3618.1	3860.3	3915.8	4270.7	4578.5	4623.9
27.5°	3465.0	3461.6	3468.4	3478.4	3522.2	3643.3	3902.3	4045.3	4509.5	4782.0	4736.6
30°	3645.0	3633.2	3660.1	3695.4	3655.1	3724.0	4041.9	4149.6	4731.6	4987.2	4862.8
32.5°	3808.1	3851.9	3902.3	3917.5	3868.7	3882.1	4227.0	4336.3	4916.6	5239.5	5017.5
35°	4011.7	4047.0	4114.3	4161.4	4152.9	4112.6	4479.3	4623.9	5184.0	5424.6	5180.7
37.5°	4210.1	4252.2	4363.2	4502.8	4425.4	4406.9	4748.4	4867.8	5266.4	5523.8	5300.1
40°	4529.7	4528.0	4719.8	4792.1	4861.1	4829.1	5027.6	5068.0	5310.2	5501.9	5303.5
42.5°	4904.8	4881.3	5076.4	5189.1	5278.2	5281.6	5318.6	5305.1	5330.4	5390.9	5268.1
45°	5261.4	5311.9	5508.7	5710.5	5799.7	5809.7	5564.2	5538.9	5365.7	5359.0	5200.8
47.5°	5697.1	5708.8	5870.3	6136.1	6343.0	6272.3	5882.1	5826.6	5520.4	5572.6	5313.5
50°	5722.3	5809.7	5954.4	6267.3	6903.1	6884.6	6294.2	6189.9	5769.4	5875.3	5628.1
52.5°	5194.1	5173.9	5345.5	5856.8	6861.0	7493.5	6977.1	6728.1	6304.3	6223.5	6137.7
55°	3957.8	4004.9	4156.3	4672.7	5957.8	7501.9	7907.2	7703.7	6876.2	6738.2	6639.0
56°	3471.7	3478.4	3621.4	4092.4	5436.3	7234.4	8083.9	7919.0	7160.4	6950.2	6798.8
57.5°	2878.0	2839.3	2913.3	3170.6	4588.6	6669.3	7890.4	8051.9	7493.5	7178.9	6968.7
60°	2265.7	2257.3	2227.0	2274.1	2899.8	5024.2	6568.3	6931.7	7459.8	6963.6	6674.3
62.5°	1850.2	1808.2	1868.7	1936.0	2015.1	3116.8	4615.5	4829.1	5922.4	5559.1	5014.1
65°	1434.8	1414.6	1490.3	1708.9	1756.0	1979.8	2629.0	2793.9	3496.9	3434.7	3024.3
67.5°	987.4	990.7	1056.3	1389.4	1628.2	1608.0	1609.7	1695.5	1825.0	1355.7	1180.8
70°	625.7	624.0	659.4	894.8	1310.3	1323.8	1256.5	1231.2	1167.3	706.5	748.5
72.5°	402.0	390.2	408.7	494.5	677.9	783.8	807.4	822.5	676.2	555.1	602.2
75°	227.1	215.3	208.6	230.4	267.4	309.5	339.8	349.9	391.9	420.5	445.7
77.5°	69.0	62.2	75.7	100.9	132.9	178.3	217.0	223.7	264.1	297.7	323.0
80°	30.3	33.6	47.1	67.3	94.2	126.2	153.1	163.2	190.1	215.3	222.0
82.5°	18.5	20.2	32.0	45.4	65.6	89.1	109.3	112.7	139.6	159.8	164.8
85°	6.7	8.4	16.8	26.9	42.1	57.2	57.2	62.2	57.2	57.2	62.2
87.5°	0.0	0.0	1.7	3.4	3.4	5.0	6.7	6.7	8.4	10.1	11.8
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°	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0	4338.0
2.5°	4349.7	4341.3	4327.9	4279.1	4274.0	4258.9	4174.8	4161.4	4174.8	4134.4	4137.8
5°	4341.3	4366.6	4265.6	4216.9	4126.0	4060.4	3984.7	3946.1	3877.1	3833.4	3882.1
7.5°	4378.3	4368.2	4242.1	4136.1	3999.9	3833.4	3700.5	3624.8	3503.7	3470.0	3495.3
10°	4364.9	4311.1	4163.0	4023.4	3766.1	3619.7	3404.4	3195.9	3081.5	3022.6	3014.2
12.5°	4346.4	4331.2	4084.0	3843.4	3572.6	3264.8	2962.1	2765.3	2578.6	2497.8	2509.6
15°	4368.2	4240.4	3936.0	3631.5	3271.6	2867.9	2541.6	2287.6	2158.0	2105.9	2105.9
17.5°	4358.2	4196.7	3865.3	3394.3	2938.5	2460.8	2102.5	1949.5	1895.7	1895.7	1910.8
20°	4363.2	4225.3	3722.3	3157.2	2544.9	2072.3	1811.6	1756.0	1779.6	1788.0	1796.4
22.5°	4391.8	4131.1	3582.7	2896.5	2179.9	1772.9	1645.0	1646.7	1688.8	1734.2	1725.8
25°	4427.1	4094.1	3412.8	2637.4	1900.7	1626.5	1586.2	1581.1	1613.1	1636.6	1640.0
27.5°	4396.8	4030.2	3239.6	2314.5	1671.9	1529.0	1520.6	1523.9	1534.0	1581.1	1566.0
30°	4496.1	4048.7	3022.6	2043.7	1545.8	1497.0	1486.9	1481.9	1497.0	1510.5	1498.7
32.5°	4618.9	3983.1	2861.1	1783.0	1483.6	1473.5	1453.3	1446.5	1455.0	1441.5	1448.2
35°	4672.7	3971.3	2650.9	1596.3	1434.8	1426.4	1414.6	1412.9	1414.6	1402.8	1392.7
37.5°	4703.0	4026.8	2410.4	1510.5	1404.5	1412.9	1386.0	1382.6	1352.4	1359.1	1364.1
40°	4755.1	3941.0	2215.2	1428.0	1386.0	1369.2	1345.6	1340.6	1320.4	1308.6	1320.4
42.5°	4679.4	3915.8	2023.5	1392.7	1359.1	1340.6	1323.8	1295.2	1288.4	1278.3	1271.6
45°	4618.9	3771.1	1851.9	1349.0	1327.1	1317.0	1285.1	1254.8	1229.6	1239.7	1224.5
47.5°	4664.3	3720.7	1682.0	1312.0	1283.4	1271.6	1239.7	1216.1	1190.9	1179.1	1175.7
50°	4845.9	3814.9	1539.1	1285.1	1246.4	1239.7	1197.6	1170.7	1147.1	1138.7	1142.1
52.5°	5279.9	4072.2	1441.5	1229.6	1211.1	1180.8	1157.2	1123.6	1108.5	1081.5	1098.4
55°	5829.9	4491.0	1416.3	1177.4	1167.3	1140.4	1108.5	1083.2	1054.6	1032.8	1027.7
56°	6006.5	4691.2	1396.1	1157.2	1140.4	1125.3	1083.2	1068.1	1022.7	1017.6	1014.3
57.5°	6149.5	4867.8	1399.5	1118.6	1101.7	1088.3	1063.0	1026.0	995.8	977.3	985.7
60°	5826.6	4556.6	1335.5	1059.7	1056.3	1031.1	995.8	978.9	941.9	920.1	915.0
62.5°	4331.2	3093.3	1083.2	984.0	982.3	955.4	915.0	896.5	889.8	859.5	859.5
65°	2494.5	1939.4	936.9	921.8	908.3	881.4	841.0	825.9	809.1	799.0	790.6
67.5°	1064.7	1005.9	851.1	849.4	834.3	800.6	760.3	736.7	714.9	694.7	704.8
70°	772.1	783.8	768.7	760.3	741.8	699.7	664.4	635.8	602.2	588.7	598.8
72.5°	612.3	637.5	659.4	661.0	639.2	590.4	551.7	513.0	476.0	457.5	465.9
75°	464.2	481.1	502.9	508.0	476.0	442.4	405.4	365.0	336.4	314.5	317.9
77.5°	334.7	331.4	351.5	348.2	333.0	309.5	275.9	238.8	206.9	186.7	188.4
80°	228.8	233.8	245.6	243.9	225.4	210.3	185.0	154.7	131.2	114.4	111.0
82.5°	159.8	168.2	178.3	169.9	154.7	139.6	121.1	99.2	80.7	67.3	63.9
85°	57.2	65.6	75.7	80.7	85.8	82.4	69.0	55.5	40.4	33.6	32.0
87.5°	11.8	13.5	15.1	15.1	15.1	13.5	11.8	11.8	10.1	5.0	5.0
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)