

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: P651223

Luminaire Tested: **GALN-SA2D-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11806 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

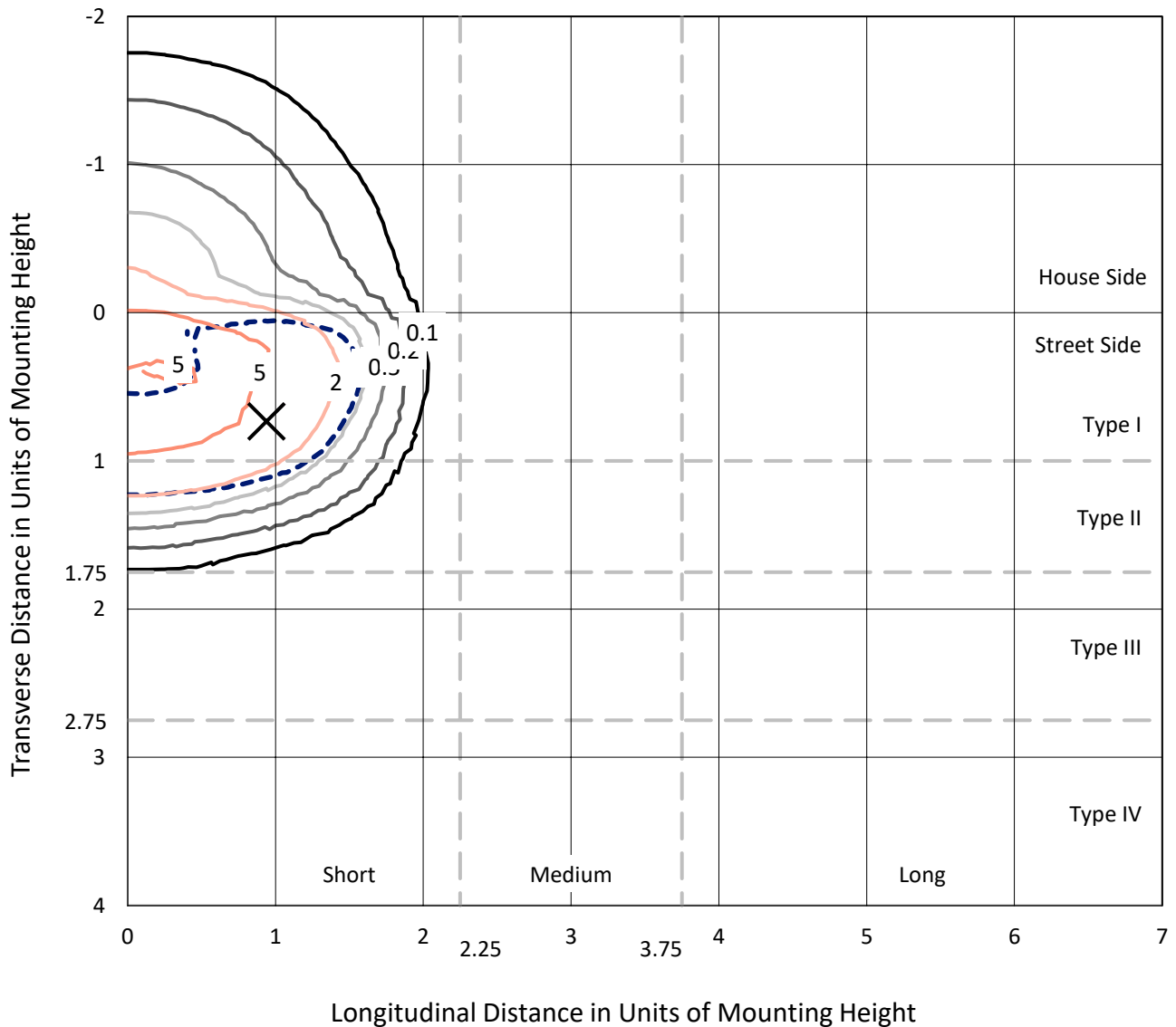
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

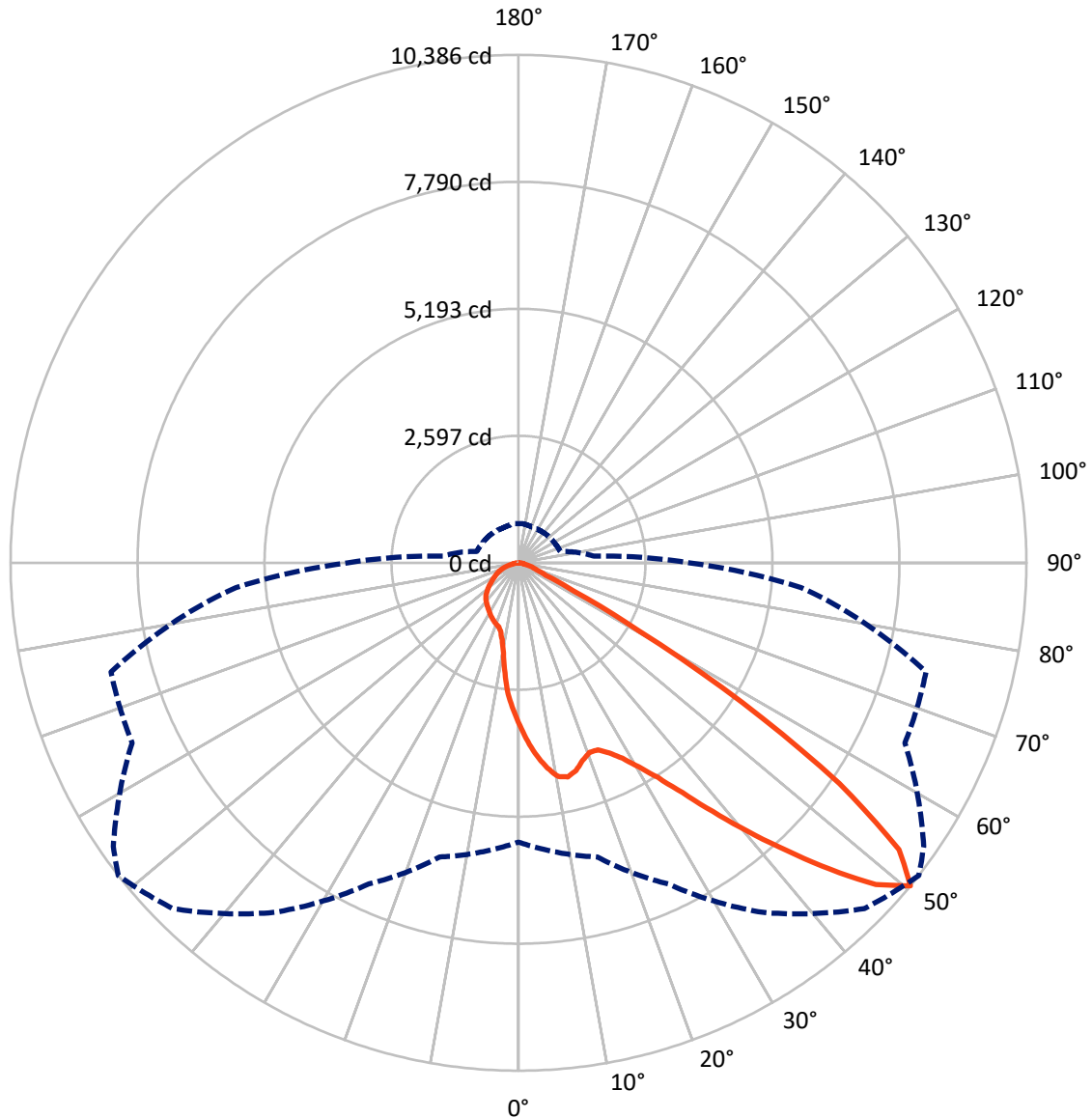
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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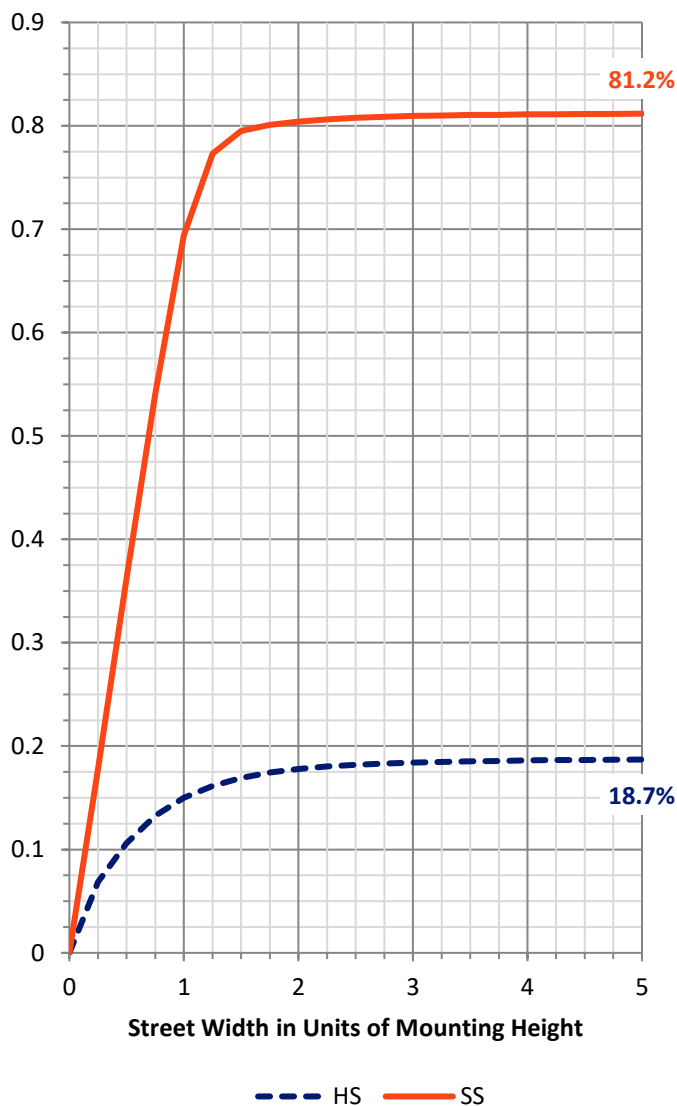
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2219.2	0.0	2219.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9586.7	0.0	9586.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	11806.0	0.0	11806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.7	2.6
10°-20°	822.1	7.0
20°-30°	1384.8	11.7
30°-40°	2323.9	19.7
40°-50°	3554.9	30.1
50°-60°	2591.8	22.0
60°-70°	576.8	4.9
70°-80°	208.1	1.8
80°-90°	36.8	0.3
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°	11806.0	100.0
0°-180°	11806.0	100.0

Coefficient of Utilization



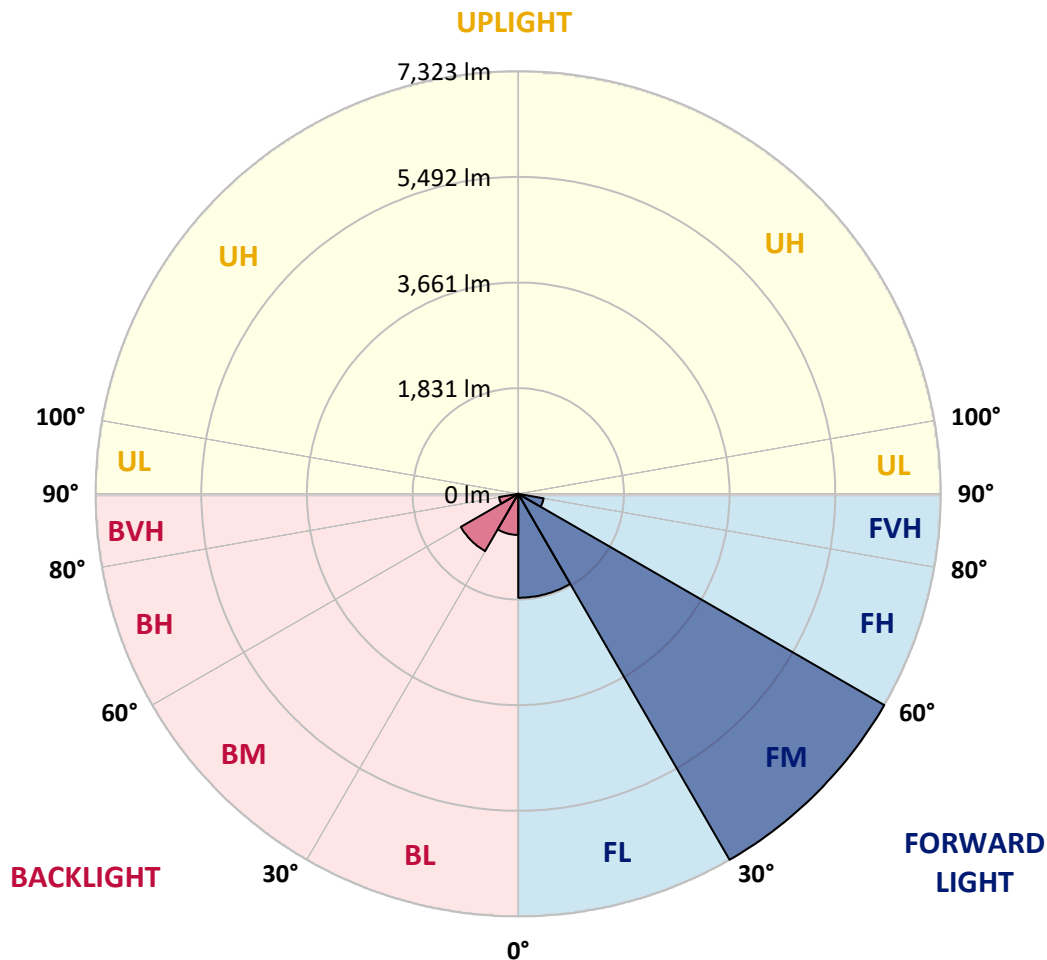
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1800.8	15.3			
FM (30°-60°)	7322.7	62.0			
FH (60°-80°)	446.8	3.8			G0/660
FVH (80°-90°)	16.5	0.1			G1/100
BL (0°-30°)	712.9	6.0	B2/1000		
BM (30°-60°)	1147.9	9.7	B2/2500		
BH (60°-80°)	338.1	2.9	B1/500		G1/500
BVH (80°-90°)	20.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9
2.5°	3918.4	3842.9	3851.5	3797.5	3739.1	3722.0	3662.2	3605.4	3562.6	3471.6	3387.6
5°	4282.6	4259.8	4225.7	4183.0	4138.9	4030.7	3969.6	3898.5	3741.9	3601.1	3461.6
7.5°	4335.3	4331.0	4349.5	4349.5	4365.1	4323.8	4237.0	4187.3	4020.8	3791.7	3532.8
10°	3965.3	3978.1	4067.7	4184.4	4346.6	4459.0	4444.8	4432.0	4249.9	3936.9	3616.7
12.5°	3670.8	3642.4	3695.0	3794.6	4037.9	4309.6	4493.1	4494.6	4447.6	4168.8	3677.9
15°	3504.4	3524.2	3538.5	3585.4	3768.9	4083.4	4406.4	4501.7	4708.0	4332.4	3774.7
17.5°	3611.0	3544.1	3541.3	3552.7	3646.6	3882.8	4245.6	4409.2	4850.3	4543.0	3894.2
20°	3750.4	3749.0	3709.2	3695.0	3693.6	3904.2	4140.3	4362.3	4925.7	4816.2	4015.1
22.5°	3995.2	3995.2	3929.7	3898.5	3831.6	4003.7	4154.5	4305.3	5050.9	5004.0	4073.5
25°	4405.0	4338.0	4225.7	4148.8	4110.5	4171.6	4305.3	4440.6	5160.5	5203.1	4194.4
27.5°	4783.4	4678.1	4622.6	4490.4	4439.1	4403.6	4525.9	4662.5	5288.5	5513.3	4259.8
30°	5213.1	5194.6	5095.0	4924.3	4797.7	4732.2	4844.6	4979.7	5523.3	5830.6	4410.6
32.5°	5981.4	5813.5	5678.3	5469.2	5262.9	5123.5	5234.5	5324.1	5913.1	6162.1	4575.7
35°	6810.9	6756.8	6523.5	6146.4	5830.6	5705.3	5770.9	5837.7	6367.0	6668.6	4853.2
37.5°	7626.2	7552.2	7360.1	7042.8	6658.6	6404.0	6450.9	6529.2	6876.4	7351.5	5191.7
40°	8212.4	8121.3	8024.6	7977.6	7596.2	7247.7	7220.7	7240.6	7565.0	7991.8	5567.3
42.5°	8255.0	8367.4	8397.3	8586.5	8496.9	8210.9	8044.4	8048.7	8222.3	8625.0	5947.3
45°	8165.4	8061.5	8282.1	8798.5	9094.5	9228.2	8947.9	8912.3	8629.2	8992.1	6136.5
47.5°	7224.9	7253.4	7626.2	8442.8	9297.9	9895.5	9830.0	9712.0	8846.9	8979.2	6106.6
50°	5711.1	5883.2	6229.0	7246.2	8728.8	10000.8	10386.4	10113.2	8717.5	8626.4	5802.1
52.5°	3803.1	3874.2	4101.9	5415.1	7018.6	8939.4	9746.1	9808.7	8597.9	8163.9	5416.5
55°	1693.1	1687.5	2007.6	2828.5	4403.6	6802.3	7963.3	8344.7	8138.4	7693.0	5041.0
57.5°	717.1	741.3	872.2	1222.1	2165.5	4104.8	5395.2	5729.6	6258.9	6317.2	3867.2
60°	485.2	488.0	523.6	611.8	906.3	1927.9	2830.0	3231.1	3609.7	3584.0	2051.7
62.5°	381.3	391.2	418.3	453.9	537.8	875.0	1266.3	1489.7	1513.9	1273.4	778.3
65°	325.8	327.2	354.3	384.2	421.2	509.4	610.4	621.8	628.9	606.1	572.0
67.5°	268.9	271.7	293.1	327.2	361.4	389.8	418.3	432.5	465.2	529.2	520.7
70°	213.4	217.7	236.2	264.7	295.9	313.0	348.6	361.4	391.2	441.1	461.0
72.5°	162.2	163.7	179.3	199.1	227.7	244.7	274.6	288.8	308.7	351.5	370.0
75°	116.6	120.9	132.3	142.3	146.6	157.9	186.4	202.0	230.5	249.0	250.4
77.5°	61.1	64.0	66.9	66.9	81.1	102.4	120.9	129.5	149.4	163.7	156.5
80°	24.2	25.7	32.7	44.1	56.9	74.0	86.8	91.1	108.2	116.6	120.9
82.5°	14.2	15.6	21.4	31.3	41.3	52.6	62.6	66.9	78.2	88.2	91.1
85°	7.1	8.6	12.8	19.9	27.0	32.7	31.3	29.9	29.9	28.4	29.9
87.5°	2.9	2.9	4.3	4.3	4.3	5.7	7.1	7.1	7.1	8.6	8.6
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°	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9	3327.9
2.5°	3332.2	3275.3	3222.6	3125.8	3020.6	2990.7	2868.3	2824.2	2793.0	2756.0	2744.5
5°	3349.3	3273.8	3104.6	2909.6	2754.5	2555.3	2424.4	2283.6	2181.1	2155.6	2148.4
7.5°	3384.9	3255.3	2963.7	2669.2	2351.9	2081.6	1875.3	1764.2	1666.1	1660.4	1650.5
10°	3424.6	3199.8	2810.0	2347.6	1942.1	1691.7	1567.9	1519.5	1495.4	1489.7	1486.8
12.5°	3457.4	3188.5	2637.9	2034.5	1651.9	1501.0	1464.0	1459.8	1469.7	1472.6	1478.3
15°	3471.6	3142.9	2430.2	1754.3	1471.2	1415.7	1431.3	1448.4	1455.5	1474.0	1459.8
17.5°	3498.6	3084.6	2174.0	1532.3	1370.2	1380.1	1407.2	1427.1	1438.4	1451.2	1432.7
20°	3512.9	3032.0	1933.5	1400.0	1334.6	1353.1	1390.1	1405.7	1419.9	1425.7	1404.3
22.5°	3500.1	2923.8	1721.6	1293.3	1300.4	1324.6	1357.4	1374.4	1365.9	1343.1	1330.3
25°	3465.9	2771.6	1501.0	1225.0	1252.1	1294.7	1320.4	1307.5	1291.9	1279.1	1274.8
27.5°	3464.5	2585.2	1341.7	1162.4	1210.8	1269.2	1260.6	1249.2	1256.3	1246.4	1235.0
30°	3471.6	2404.5	1210.8	1126.9	1180.9	1209.4	1219.4	1207.9	1216.5	1198.0	1203.6
32.5°	3434.6	2228.1	1125.4	1085.6	1145.4	1143.9	1176.6	1185.2	1165.3	1126.9	1132.6
35°	3450.3	2085.8	1052.8	1067.1	1105.5	1105.5	1131.1	1121.1	1068.5	1045.8	1051.4
37.5°	3558.4	1946.4	1017.3	1041.5	1067.1	1078.5	1069.9	1027.3	1014.4	1014.4	1017.3
40°	3660.9	1826.8	995.9	1035.8	1031.5	1038.6	976.1	980.3	980.3	981.7	974.6
42.5°	3751.9	1745.7	978.8	1001.6	1008.8	971.8	933.3	929.1	939.1	937.6	931.9
45°	3784.6	1678.9	954.7	963.2	968.9	907.8	889.3	880.7	892.0	896.3	902.1
47.5°	3659.4	1623.4	927.6	910.6	899.2	859.3	835.2	819.6	833.8	857.9	863.6
50°	3498.6	1550.8	885.0	852.3	828.0	811.0	793.9	778.3	788.2	805.3	801.1
52.5°	3261.1	1437.0	830.9	796.8	755.5	759.8	744.1	735.6	741.3	741.3	737.0
55°	2922.4	1180.9	739.8	715.7	681.5	692.9	695.8	684.3	673.0	683.0	674.4
57.5°	1994.8	833.8	660.2	660.2	626.0	641.7	640.3	613.3	586.2	589.0	583.3
60°	1153.9	664.5	609.0	603.2	567.7	580.5	583.3	564.8	523.6	526.5	520.7
62.5°	655.9	567.7	532.1	523.6	516.5	527.9	527.9	503.7	468.1	471.0	465.2
65°	557.8	526.5	475.2	473.8	471.0	473.8	462.4	436.8	405.5	392.7	394.1
67.5°	506.5	486.6	436.8	424.0	415.5	414.0	392.7	368.5	354.3	342.9	341.4
70°	443.9	428.2	391.2	374.2	365.7	345.7	324.4	308.7	288.8	283.2	288.8
72.5°	351.5	350.0	335.8	317.3	298.8	283.2	264.7	243.3	224.8	220.5	210.6
75°	243.3	246.2	249.0	246.2	230.5	210.6	189.2	172.2	149.4	136.6	133.7
77.5°	159.4	163.7	167.9	162.2	152.2	133.7	119.5	98.1	81.1	71.1	69.7
80°	116.6	122.4	125.2	120.9	109.6	95.3	79.6	62.6	49.8	41.3	41.3
82.5°	89.7	95.3	98.1	91.1	79.6	68.3	56.9	44.1	34.1	27.0	25.7
85°	31.3	29.9	35.6	37.0	44.1	41.3	34.1	25.7	19.9	14.2	12.8
87.5°	8.6	8.6	9.9	9.9	8.6	7.1	7.1	7.1	5.7	4.3	4.3
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)