

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: P527708

Luminaire Tested: **GALN-SA2D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527708
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-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 12784 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

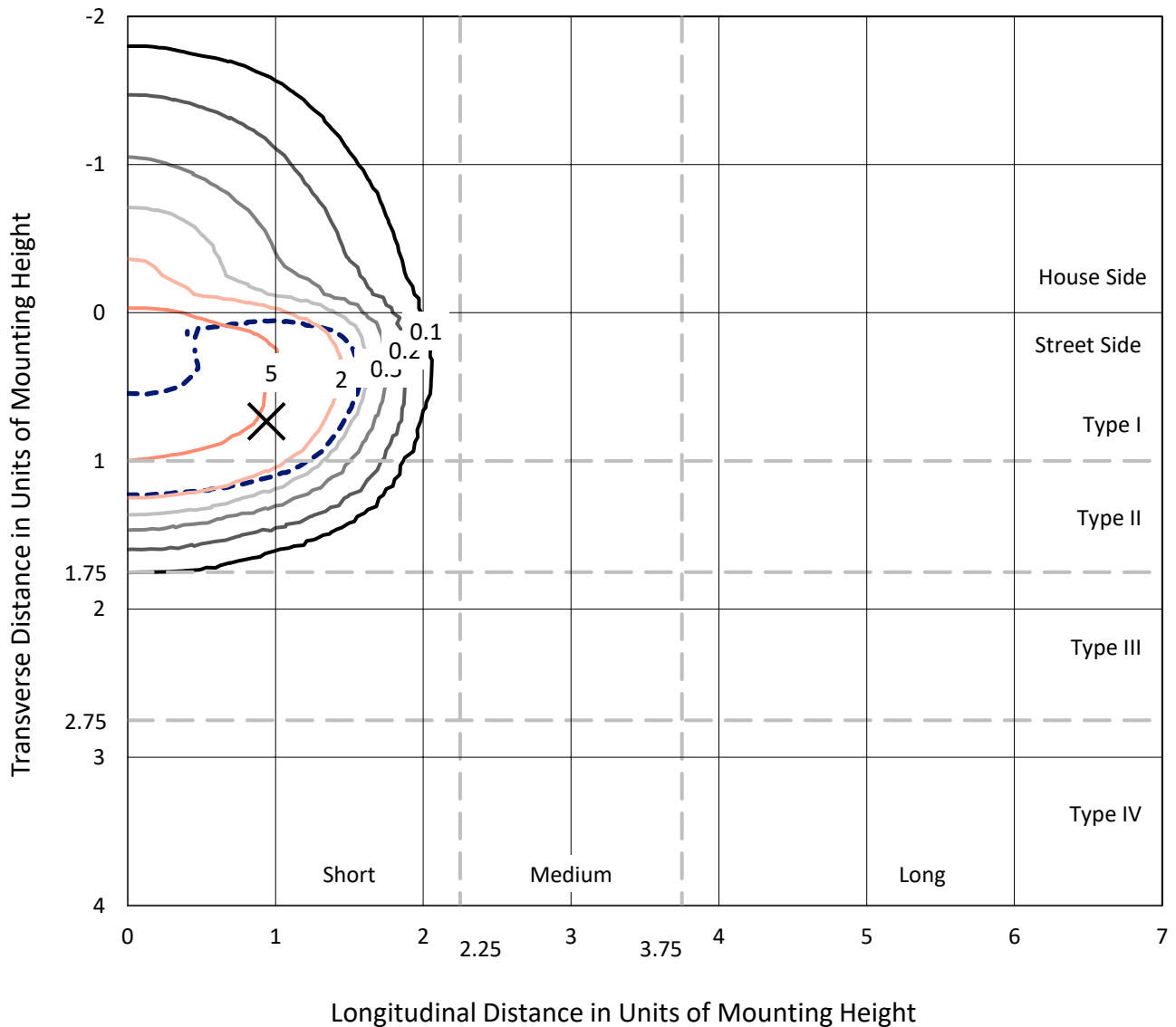
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

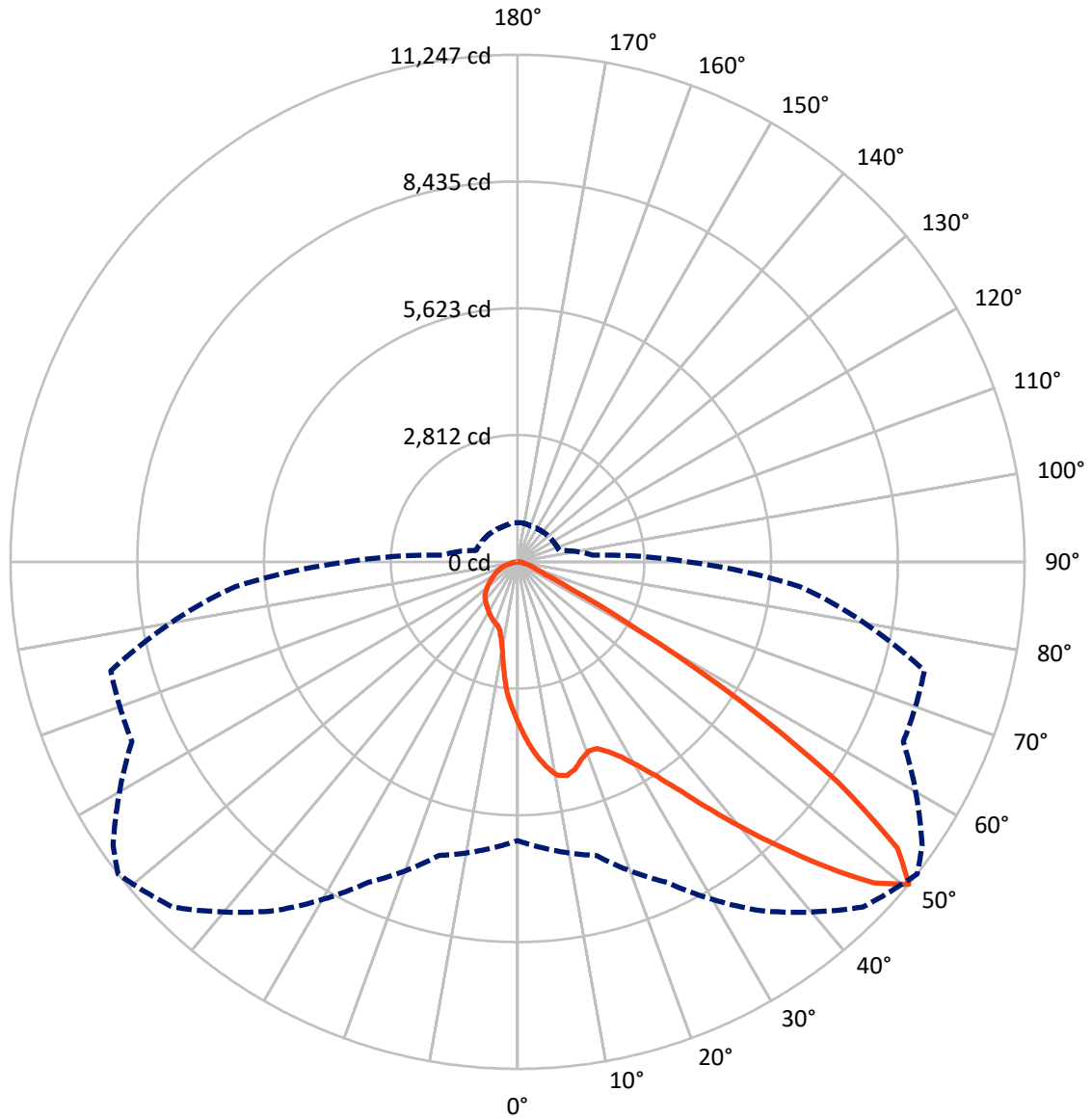
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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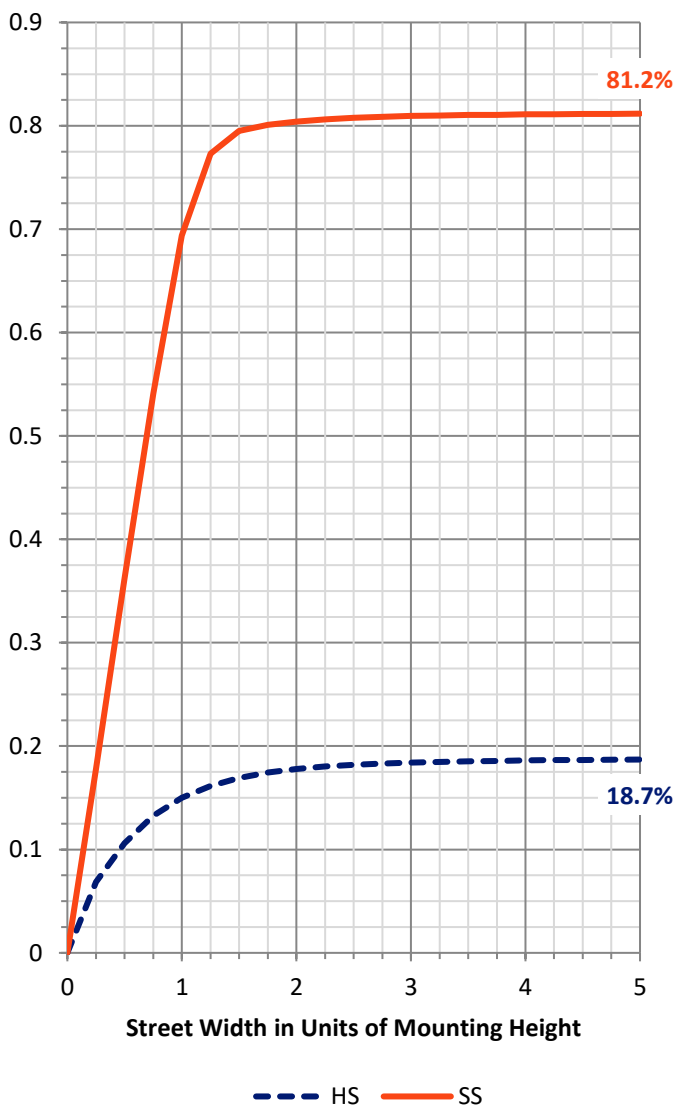
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2403.1	0.0	2403.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10380.9	0.0	10380.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	12784.0	0.0	12784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	2.6
10°-20°	890.2	7.0
20°-30°	1499.6	11.7
30°-40°	2516.4	19.7
40°-50°	3849.4	30.1
50°-60°	2806.5	22.0
60°-70°	624.6	4.9
70°-80°	225.3	1.8
80°-90°	39.9	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°	12784.0	100.0
0°-180°	12784.0	100.0

Coefficient of Utilization

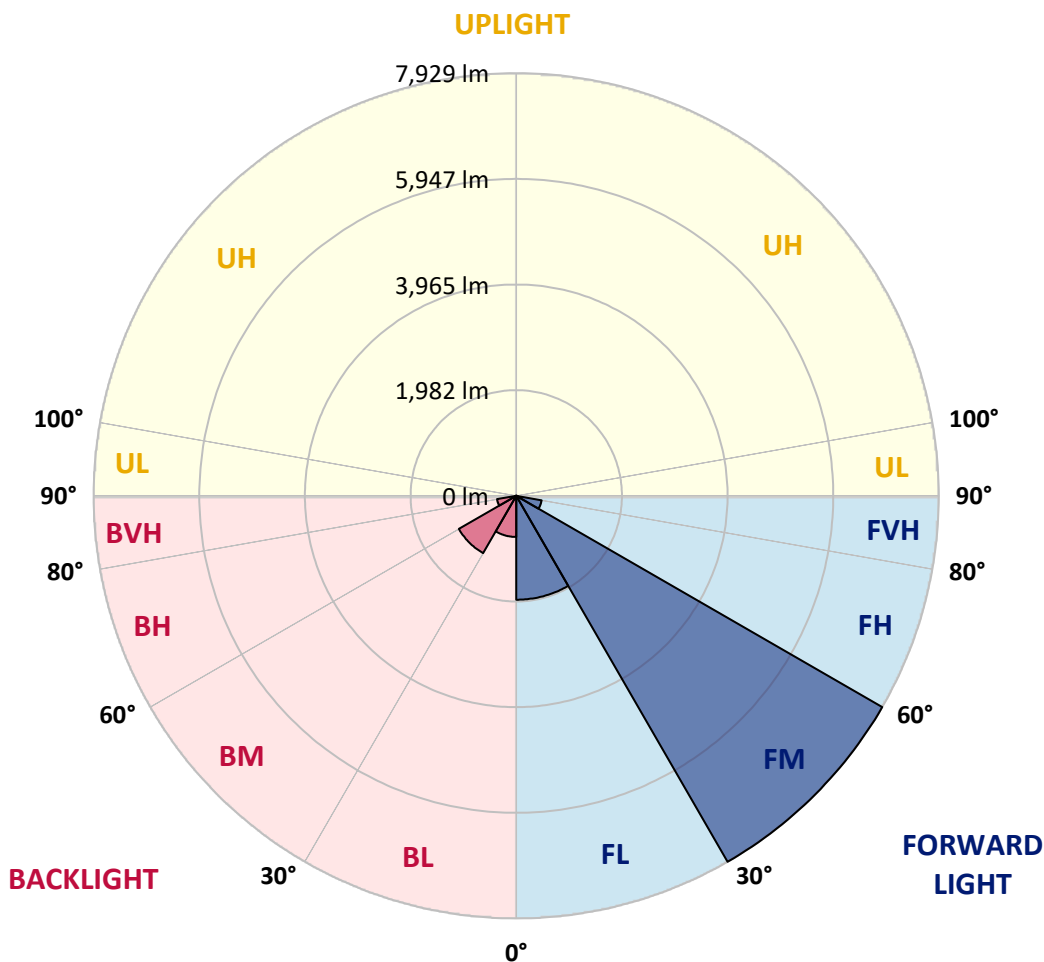


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1950.0	15.3			
FM (30°-60°)	7929.3	62.0			
FH (60°-80°)	483.8	3.8			G0/660
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	771.9	6.0	B2/1000		
BM (30°-60°)	1243.0	9.7	B2/2500		
BH (60°-80°)	366.1	2.9	B1/500		G1/500
BVH (80°-90°)	22.0	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°	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6
2.5°	4243.0	4161.3	4170.6	4112.0	4048.8	4030.4	3965.7	3904.0	3857.8	3759.2	3668.3
5°	4637.4	4612.7	4575.8	4529.5	4481.8	4364.7	4298.4	4221.4	4051.9	3899.4	3748.4
7.5°	4694.4	4689.8	4709.8	4709.8	4726.7	4682.1	4588.1	4534.2	4353.9	4105.9	3825.5
10°	4293.8	4307.7	4404.7	4531.1	4706.7	4828.4	4813.0	4799.1	4601.9	4263.0	3916.4
12.5°	3974.9	3944.1	4001.1	4108.9	4372.4	4666.7	4865.4	4866.9	4816.1	4514.1	3982.6
15°	3794.6	3816.2	3831.6	3882.5	4081.2	4421.7	4771.4	4874.6	5098.0	4691.3	4087.4
17.5°	3910.2	3837.8	3834.7	3847.0	3948.7	4204.5	4597.3	4774.5	5252.1	4919.3	4216.8
20°	4061.2	4059.6	4016.5	4001.1	3999.5	4227.6	4483.3	4723.7	5333.8	5215.1	4347.7
22.5°	4326.2	4326.2	4255.3	4221.4	4149.0	4335.4	4498.7	4662.0	5469.3	5418.5	4410.9
25°	4769.9	4697.5	4575.8	4492.6	4451.0	4517.2	4662.0	4808.4	5588.0	5634.2	4541.9
27.5°	5179.7	5065.7	5005.6	4862.3	4806.9	4768.3	4900.8	5048.7	5726.6	5970.0	4612.7
30°	5645.0	5624.9	5517.1	5332.2	5195.1	5124.2	5245.9	5392.3	5980.8	6313.6	4776.0
32.5°	6476.9	6295.1	6148.8	5922.3	5698.9	5547.9	5668.1	5765.1	6403.0	6672.6	4954.8
35°	7375.1	7316.6	7063.9	6655.6	6313.6	6178.0	6248.9	6321.3	6894.4	7221.1	5255.2
37.5°	8257.9	8177.8	7969.8	7626.3	7210.3	6934.5	6985.3	7070.1	7446.0	7960.6	5621.9
40°	8892.7	8794.1	8689.3	8638.5	8225.6	7848.1	7818.8	7840.4	8191.7	8653.9	6028.6
42.5°	8938.9	9060.6	9093.0	9297.9	9200.8	8891.1	8710.9	8715.5	8903.5	9339.5	6439.9
45°	8841.8	8729.4	8968.2	9527.4	9847.9	9992.7	9689.2	9650.7	9344.1	9737.0	6644.9
47.5°	7823.5	7854.3	8257.9	9142.3	10068.2	10715.3	10644.4	10516.5	9579.8	9723.1	6612.5
50°	6184.2	6370.6	6745.0	7846.6	9451.9	10829.3	11246.8	10951.0	9439.6	9341.0	6282.8
52.5°	4118.2	4195.2	4441.7	5863.7	7600.1	9680.0	10553.5	10621.3	9310.2	8840.3	5865.3
55°	1833.4	1827.2	2173.9	3062.8	4768.3	7365.9	8623.1	9036.0	8812.6	8330.3	5458.5
57.5°	776.5	802.7	944.4	1323.4	2344.9	4444.8	5842.2	6204.2	6777.4	6840.5	4187.5
60°	525.4	528.4	567.0	662.5	981.4	2087.6	3064.4	3498.8	3908.6	3880.9	2221.6
62.5°	412.9	423.7	453.0	491.5	582.4	947.5	1371.2	1613.1	1639.3	1378.9	842.7
65°	352.8	354.4	383.6	416.0	456.0	551.6	660.9	673.3	681.0	656.3	619.3
67.5°	291.2	294.3	317.4	354.4	391.3	422.1	453.0	468.4	503.8	573.1	563.9
70°	231.1	235.7	255.7	286.6	320.5	338.9	377.5	391.3	423.7	477.6	499.2
72.5°	175.6	177.2	194.1	215.7	246.5	265.0	297.3	312.8	334.3	380.5	400.6
75°	126.3	131.0	143.3	154.1	158.7	171.0	201.8	218.8	249.6	269.6	271.2
77.5°	66.2	69.3	72.4	72.4	87.8	110.9	131.0	140.2	161.8	177.2	169.5
80°	26.2	27.7	35.4	47.8	61.6	80.1	94.0	98.6	117.1	126.3	131.0
82.5°	15.4	16.9	23.1	33.9	44.7	57.0	67.8	72.4	84.7	95.5	98.6
85°	7.7	9.2	13.9	21.6	29.3	35.4	33.9	32.4	32.4	30.8	32.4
87.5°	3.1	3.1	4.6	4.6	4.6	6.2	7.7	7.7	7.7	9.2	9.2
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°	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6	3603.6
2.5°	3608.2	3546.6	3489.6	3384.8	3270.8	3238.5	3106.0	3058.2	3024.3	2984.3	2971.9
5°	3626.7	3545.1	3361.7	3150.6	2982.7	2767.0	2625.3	2472.8	2361.8	2334.1	2326.4
7.5°	3665.2	3525.0	3209.2	2890.3	2546.7	2254.0	2030.6	1910.4	1804.1	1797.9	1787.2
10°	3708.4	3464.9	3042.8	2542.1	2103.0	1831.8	1697.8	1645.4	1619.2	1613.1	1610.0
12.5°	3743.8	3452.6	2856.4	2203.1	1788.7	1625.4	1585.3	1580.7	1591.5	1594.6	1600.7
15°	3759.2	3403.3	2631.4	1899.6	1593.0	1533.0	1549.9	1568.4	1576.1	1596.1	1580.7
17.5°	3788.5	3340.1	2354.1	1659.3	1483.7	1494.4	1523.7	1545.3	1557.6	1571.5	1551.4
20°	3803.9	3283.1	2093.8	1516.0	1445.1	1465.2	1505.2	1522.2	1537.6	1543.7	1520.6
22.5°	3790.0	3166.1	1864.2	1400.5	1408.2	1434.4	1469.8	1488.3	1479.0	1454.4	1440.5
25°	3753.0	3001.2	1625.4	1326.5	1355.8	1402.0	1429.7	1415.9	1398.9	1385.1	1380.4
27.5°	3751.5	2799.4	1452.8	1258.7	1311.1	1374.3	1365.0	1352.7	1360.4	1349.6	1337.3
30°	3759.2	2603.7	1311.1	1220.2	1278.7	1309.6	1320.3	1308.0	1317.3	1297.2	1303.4
32.5°	3719.1	2412.7	1218.7	1175.5	1240.2	1238.7	1274.1	1283.4	1261.8	1220.2	1226.4
35°	3736.1	2258.6	1140.1	1155.5	1197.1	1197.1	1224.8	1214.0	1157.0	1132.4	1138.5
37.5°	3853.2	2107.6	1101.6	1127.8	1155.5	1167.8	1158.6	1112.4	1098.5	1098.5	1101.6
40°	3964.1	1978.2	1078.5	1121.6	1117.0	1124.7	1056.9	1061.5	1061.5	1063.1	1055.4
42.5°	4062.7	1890.4	1060.0	1084.6	1092.3	1052.3	1010.7	1006.0	1016.8	1015.3	1009.1
45°	4098.1	1818.0	1033.8	1043.0	1049.2	982.9	962.9	953.7	966.0	970.6	976.8
47.5°	3962.6	1757.9	1004.5	986.0	973.7	930.6	904.4	887.4	902.8	929.0	935.2
50°	3788.5	1679.3	958.3	922.9	896.7	878.2	859.7	842.7	853.5	872.0	867.4
52.5°	3531.2	1556.1	899.7	862.8	818.1	822.7	805.8	796.5	802.7	802.7	798.1
55°	3164.5	1278.7	801.1	775.0	738.0	750.3	753.4	741.1	728.7	739.5	730.3
57.5°	2160.0	902.8	714.9	714.9	677.9	694.8	693.3	664.0	634.8	637.8	631.7
60°	1249.5	719.5	659.4	653.2	614.7	628.6	631.7	611.6	567.0	570.0	563.9
62.5°	710.2	614.7	576.2	567.0	559.3	571.6	571.6	545.4	506.9	510.0	503.8
65°	603.9	570.0	514.6	513.0	510.0	513.0	500.7	473.0	439.1	425.2	426.8
67.5°	548.5	526.9	473.0	459.1	449.9	448.3	425.2	399.0	383.6	371.3	369.8
70°	480.7	463.7	423.7	405.2	395.9	374.4	351.3	334.3	312.8	306.6	312.8
72.5°	380.5	379.0	363.6	343.6	323.5	306.6	286.6	263.5	243.4	238.8	228.0
75°	263.5	266.5	269.6	266.5	249.6	228.0	204.9	186.4	161.8	147.9	144.8
77.5°	172.6	177.2	181.8	175.6	164.9	144.8	129.4	106.3	87.8	77.0	75.5
80°	126.3	132.5	135.6	131.0	118.6	103.2	86.3	67.8	53.9	44.7	44.7
82.5°	97.1	103.2	106.3	98.6	86.3	74.0	61.6	47.8	37.0	29.3	27.7
85°	33.9	32.4	38.5	40.1	47.8	44.7	37.0	27.7	21.6	15.4	13.9
87.5°	9.2	9.2	10.8	10.8	9.2	7.7	7.7	7.7	6.2	4.6	4.6
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)