

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: P451876

Luminaire Tested: **GALN-SA2D-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451876  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15709 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

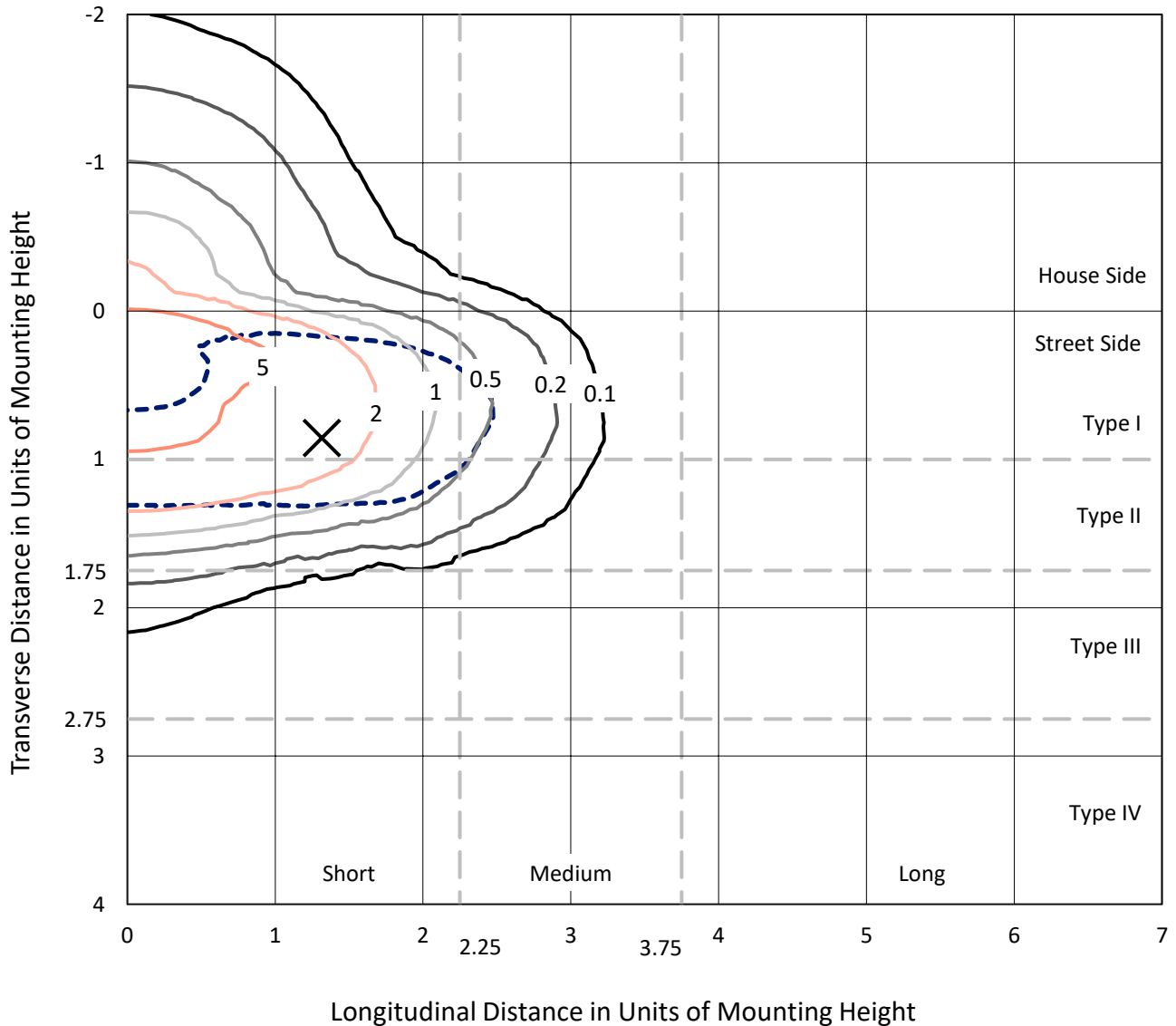
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

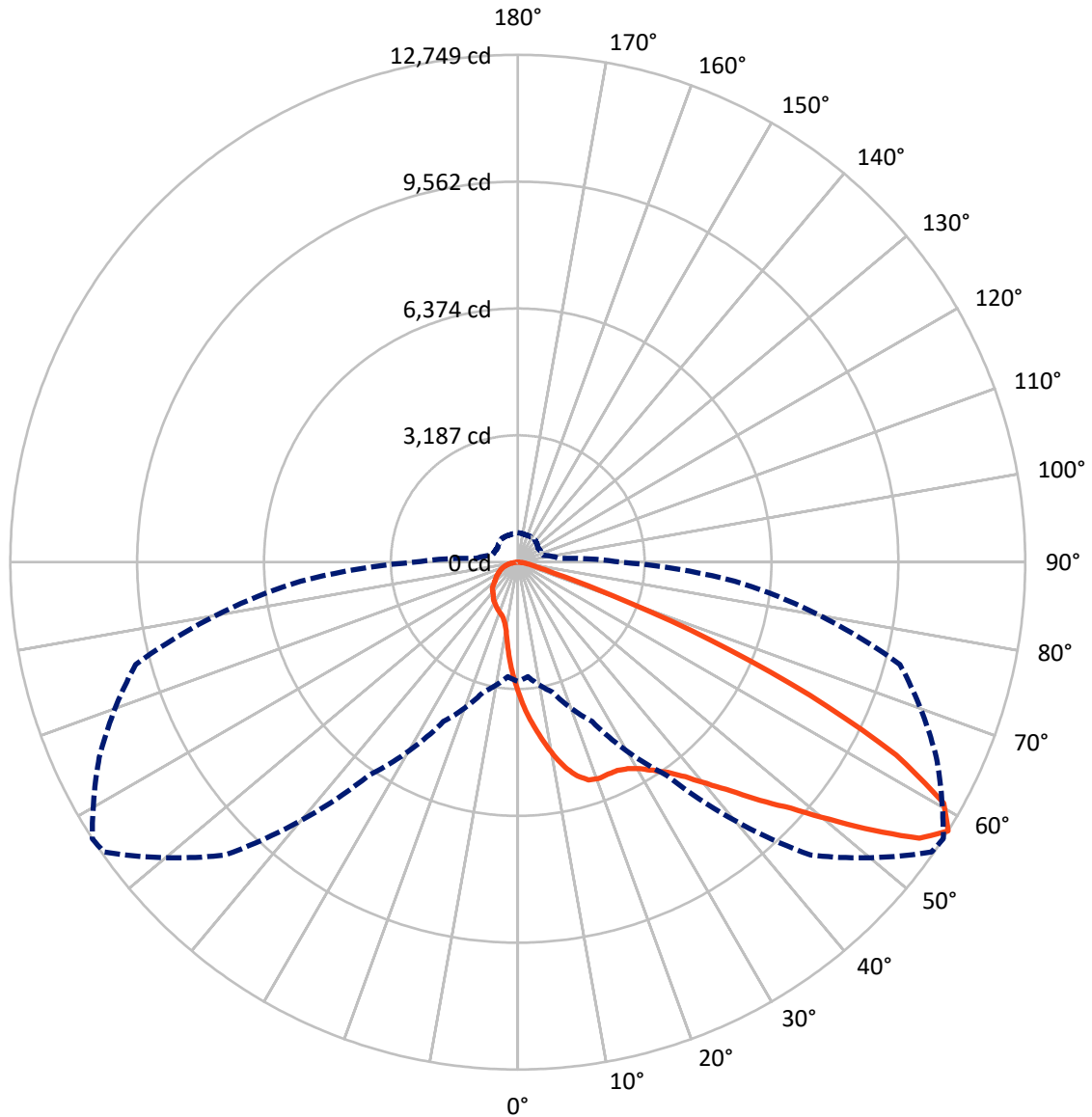
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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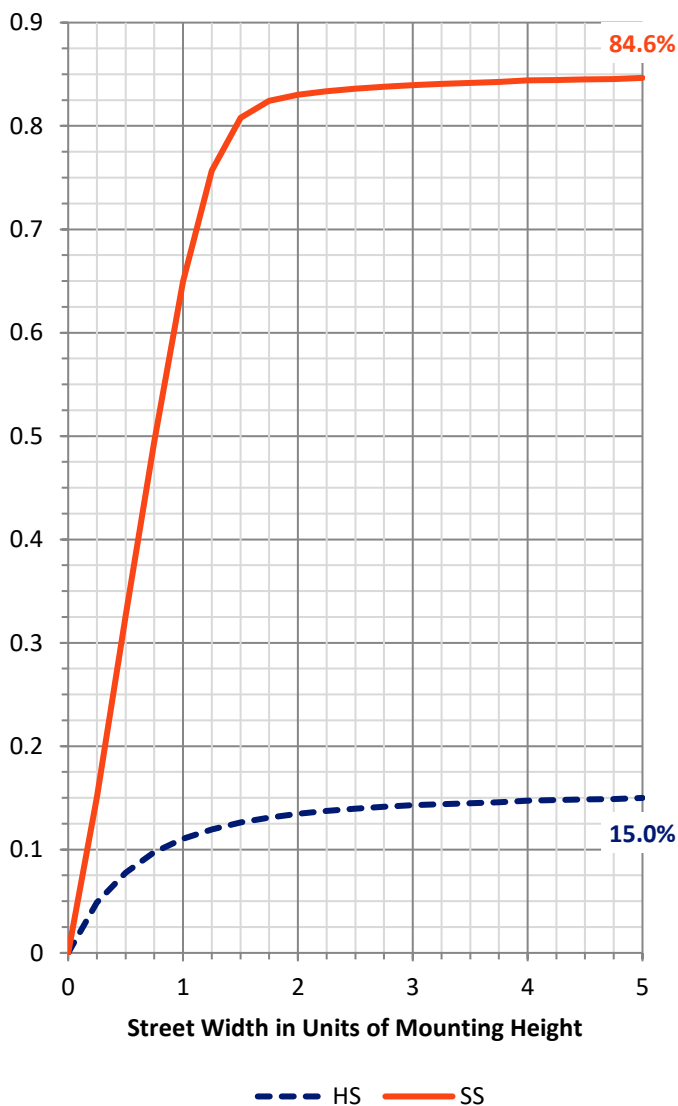
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2388.9	0.0	2388.9
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	13320.1	0.0	13320.1
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	15709.0	0.0	15709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.2	2.0
10°-20°	934.8	6.0
20°-30°	1552.2	9.9
30°-40°	2338.1	14.9
40°-50°	3510.4	22.3
50°-60°	3934.7	25.0
60°-70°	2302.8	14.7
70°-80°	681.2	4.3
80°-90°	137.7	0.9
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°	15709.0	100.0
0°-180°	15709.0	100.0

**Coefficient of Utilization**



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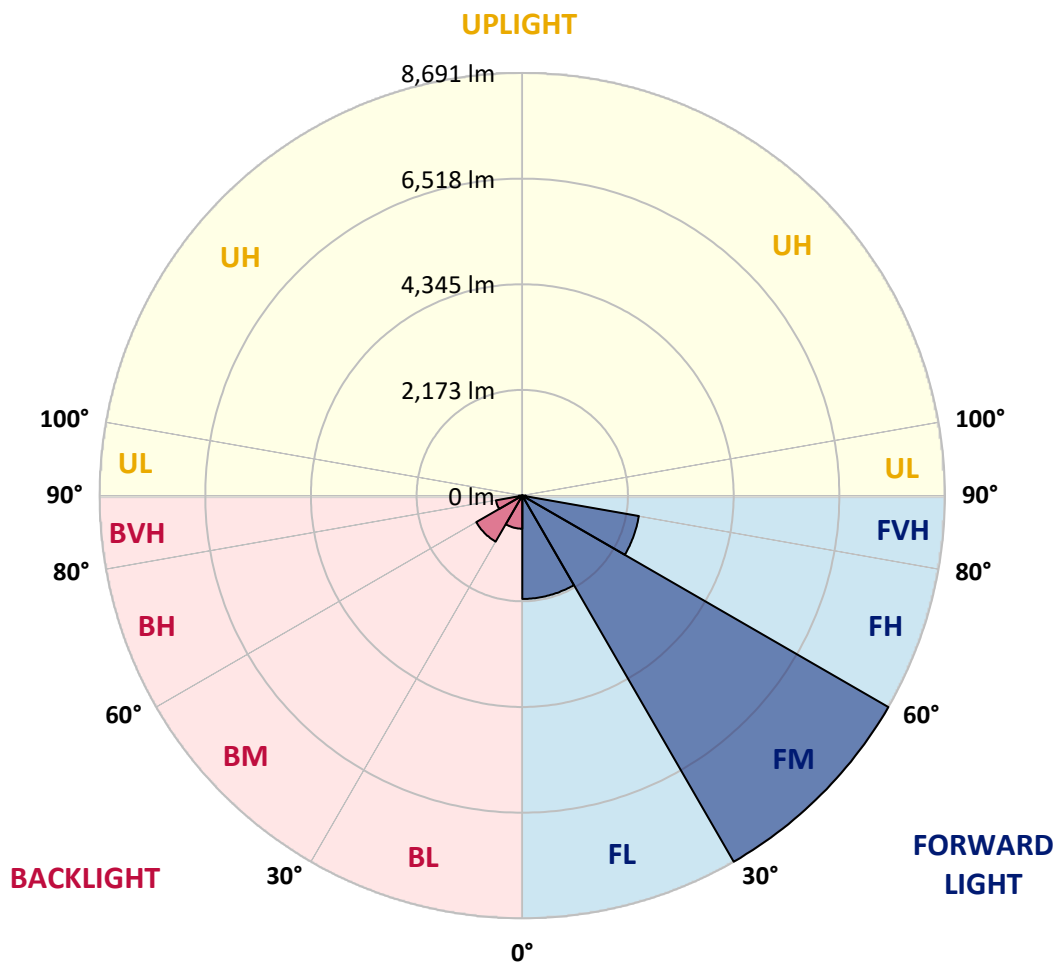
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2123.5	13.5			
FM	(30°-60°)	8690.9	55.3			
FH	(60°-80°)	2434.3	15.5			G2/5000
FVH	(80°-90°)	71.4	0.5			G1/100
BL	(0°-30°)	680.7	4.3	B2/1000		
BM	(30°-60°)	1092.3	7.0	B2/2500		
BH	(60°-80°)	549.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	66.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3
2.5°	4100.8	4056.1	4020.9	3989.9	3949.5	3840.3	3731.1	3729.4	3642.5	3508.4	3370.8
5°	4769.0	4708.8	4716.5	4620.2	4523.9	4365.7	4134.4	4122.3	3937.5	3686.4	3431.0
7.5°	5204.1	5205.0	5180.9	5125.8	5021.8	4842.1	4579.8	4520.5	4263.4	3882.4	3499.8
10°	5181.7	5205.0	5245.4	5292.7	5324.5	5235.9	4996.9	4924.6	4590.1	4119.8	3576.3
12.5°	4884.2	4920.3	4977.9	5096.6	5288.4	5434.5	5352.9	5294.4	4968.5	4356.2	3660.6
15°	4698.5	4720.0	4751.8	4831.8	5038.1	5388.1	5599.6	5568.7	5325.3	4623.7	3755.2
17.5°	4641.7	4663.2	4673.5	4722.5	4869.6	5228.2	5696.8	5751.8	5641.8	4869.6	3850.6
20°	4698.5	4708.8	4708.8	4738.0	4853.3	5134.4	5692.5	5803.4	5901.5	5164.5	3940.0
22.5°	4847.2	4851.5	4845.5	4855.8	4941.8	5160.2	5652.1	5789.7	6111.3	5414.8	4009.7
25°	5088.9	5095.7	5056.2	5032.1	5094.9	5273.7	5674.5	5800.9	6275.5	5653.8	4056.1
27.5°	5363.2	5371.8	5323.6	5267.7	5297.0	5413.9	5762.2	5875.7	6398.5	5889.4	4085.4
30°	5699.4	5702.8	5622.0	5554.9	5536.0	5622.9	5911.8	6017.6	6551.5	6167.2	4129.2
32.5°	6043.3	6069.1	5965.1	5870.5	5838.7	5865.4	6132.8	6235.1	6733.8	6465.6	4199.7
35°	6511.1	6515.4	6390.7	6275.5	6170.6	6205.0	6415.7	6489.6	6985.8	6810.4	4299.5
37.5°	7095.0	7134.6	6962.6	6747.6	6618.6	6568.7	6757.9	6838.8	7339.2	7233.4	4450.0
40°	7743.4	7758.0	7610.9	7476.8	7241.2	7096.7	7227.4	7315.1	7775.2	7738.2	4624.5
42.5°	8151.0	8182.8	8193.9	8180.2	8003.1	7760.6	7810.4	7851.7	8291.1	8212.0	4803.4
45°	8288.5	8335.8	8495.8	8834.6	8853.5	8614.4	8498.4	8537.9	8853.5	8690.1	4974.5
47.5°	8060.7	8141.5	8436.4	9131.2	9651.5	9669.5	9319.6	9232.7	9366.0	9086.5	5098.3
50°	7471.6	7488.8	7940.3	8946.4	10025.5	10678.2	10316.2	10154.5	9852.7	9379.7	5183.5
52.5°	6560.1	6579.9	6958.3	8087.3	9795.1	11383.3	11482.2	11193.3	10347.1	9607.6	5239.3
55°	4869.6	4984.0	5400.1	6491.4	8703.0	11317.1	12409.2	12244.9	10944.8	9788.2	5327.1
57.5°	2994.2	2889.3	3382.8	4416.4	6545.5	10407.3	12695.5	12748.8	11602.6	9939.5	5474.1
60°	1377.6	1398.2	1602.0	2277.9	3989.9	8141.5	11957.7	12294.8	11966.3	9934.4	5511.1
62.5°	949.3	930.4	878.8	1000.1	1819.5	5149.1	10100.3	10671.3	11237.1	9625.7	5364.0
65°	848.7	829.8	730.1	696.5	835.8	2244.3	7342.7	8063.2	9461.4	8846.6	4997.7
67.5°	792.8	767.0	663.8	598.5	596.8	893.4	4329.6	5197.2	7017.6	7479.4	4330.4
70°	734.4	713.7	611.4	539.2	508.2	561.5	1902.9	2491.1	4556.6	5389.8	3373.4
72.5°	675.9	651.8	559.8	482.4	442.0	420.5	729.2	948.5	2574.5	3231.5	2068.1
75°	590.7	578.7	500.5	436.8	393.0	339.7	462.6	528.0	1231.4	1484.2	1037.9
77.5°	516.8	503.9	444.6	381.8	350.0	276.0	328.5	358.6	519.4	601.9	468.6
80°	378.4	391.3	374.9	337.1	312.1	216.7	221.0	245.9	308.7	341.4	286.3
82.5°	239.9	264.0	288.9	259.7	236.5	171.1	153.1	162.5	210.7	223.6	127.3
85°	100.6	102.3	167.7	158.2	135.0	101.5	92.0	97.2	112.6	117.8	59.3
87.5°	38.7	37.8	59.3	55.0	42.1	29.2	29.2	32.7	44.7	41.3	18.9
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°	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3	3300.3
2.5°	3311.5	3250.4	3129.2	2978.7	2868.6	2744.8	2635.6	2557.3	2528.1	2514.3	2488.5
5°	3308.9	3188.5	2937.4	2674.3	2462.7	2246.0	2062.9	1944.2	1933.9	1854.8	1847.1
7.5°	3309.7	3125.7	2725.9	2338.9	2016.5	1794.6	1643.3	1603.7	1556.4	1544.4	1550.4
10°	3312.3	3045.8	2498.9	2007.0	1694.9	1549.5	1492.8	1477.3	1479.0	1484.2	1485.0
12.5°	3315.8	2968.4	2263.2	1755.0	1514.3	1454.1	1448.1	1461.8	1476.4	1487.6	1490.2
15°	3320.1	2879.8	2033.7	1552.1	1424.0	1418.8	1438.6	1461.8	1482.5	1498.8	1501.4
17.5°	3314.9	2776.6	1841.0	1427.4	1374.1	1399.1	1431.7	1461.0	1479.9	1495.4	1497.1
20°	3302.9	2661.4	1655.3	1339.7	1343.2	1383.6	1418.8	1446.3	1467.0	1474.7	1480.7
22.5°	3256.4	2523.8	1493.6	1271.8	1306.2	1362.1	1404.2	1420.5	1397.3	1381.0	1385.3
25°	3177.3	2344.9	1343.2	1216.8	1272.6	1332.0	1375.0	1335.4	1316.5	1309.6	1313.1
27.5°	3078.4	2148.9	1229.7	1159.1	1229.7	1298.4	1286.4	1279.5	1270.9	1259.7	1262.3
30°	2971.8	1957.1	1133.3	1114.4	1183.2	1222.8	1227.9	1239.1	1229.7	1212.5	1219.3
32.5°	2872.9	1776.5	1060.3	1076.6	1150.5	1144.5	1183.2	1196.1	1152.3	1094.6	1097.2
35°	2788.6	1608.9	1005.2	1039.6	1094.6	1097.2	1135.9	1091.2	1043.9	1016.4	1018.1
37.5°	2725.0	1478.2	969.1	1007.8	1023.3	1056.0	1035.3	1012.1	1006.1	987.2	988.0
40°	2687.2	1363.8	945.9	982.9	980.3	1002.6	936.4	959.6	968.2	962.2	963.1
42.5°	2649.3	1283.0	921.8	948.5	947.6	903.8	889.1	908.9	931.3	933.8	932.1
45°	2619.2	1220.2	896.9	896.0	913.2	844.4	840.1	852.2	884.0	899.5	898.6
47.5°	2585.7	1167.7	859.0	835.0	840.1	807.4	800.6	805.7	844.4	869.4	876.2
50°	2543.6	1115.3	811.7	779.1	757.6	773.0	774.8	775.6	814.3	842.7	848.7
52.5°	2510.0	1075.7	757.6	733.5	707.7	742.1	755.0	756.7	779.9	803.1	807.4
55°	2529.8	1053.4	704.3	687.1	663.8	710.3	735.2	738.7	743.8	761.0	763.6
57.5°	2589.1	1058.5	661.3	638.9	621.7	672.4	714.6	717.2	713.7	734.4	737.8
60°	2607.2	1056.0	629.4	585.6	575.3	632.0	684.5	689.6	688.8	718.9	724.9
62.5°	2531.5	1023.3	597.6	540.9	534.0	590.7	642.3	663.0	667.3	710.3	718.0
65°	2353.5	956.2	555.5	493.6	493.6	546.9	601.9	630.3	642.3	700.0	708.6
67.5°	2118.8	877.1	512.5	453.2	451.4	504.8	558.9	588.2	607.1	685.3	690.5
70°	1758.5	770.5	459.2	409.3	409.3	457.5	506.5	541.7	569.3	657.8	657.8
72.5°	1204.7	640.6	394.7	359.4	360.3	405.0	454.9	494.4	527.1	602.8	604.5
75°	761.9	500.5	324.2	306.1	309.6	351.7	403.3	444.6	509.9	595.9	598.5
77.5°	405.0	351.7	258.0	253.7	258.0	296.7	354.3	411.0	511.6	516.8	508.2
80°	262.3	249.4	203.8	195.2	196.9	239.1	315.6	390.4	411.0	416.2	397.3
82.5°	142.7	158.2	144.5	135.9	135.9	186.6	269.1	310.4	294.9	245.1	233.9
85°	61.1	74.0	74.8	65.4	62.8	115.2	180.6	169.4	157.4	150.5	148.8
87.5°	17.2	24.1	24.1	18.1	13.8	31.8	36.1	10.3	0.0	0.9	1.7
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)