

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: P527875

Luminaire Tested: **GALN-SA2D-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7293 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

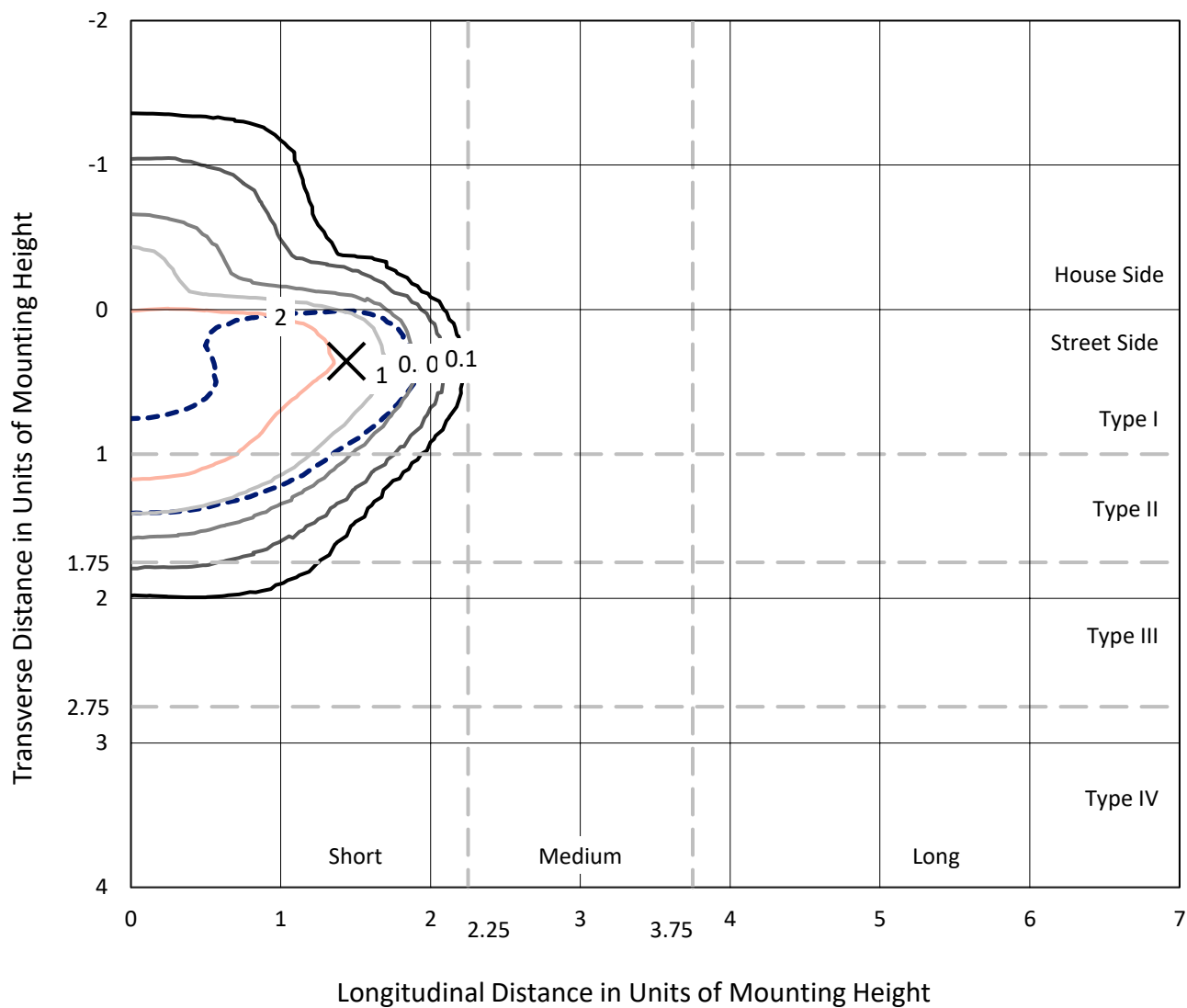
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

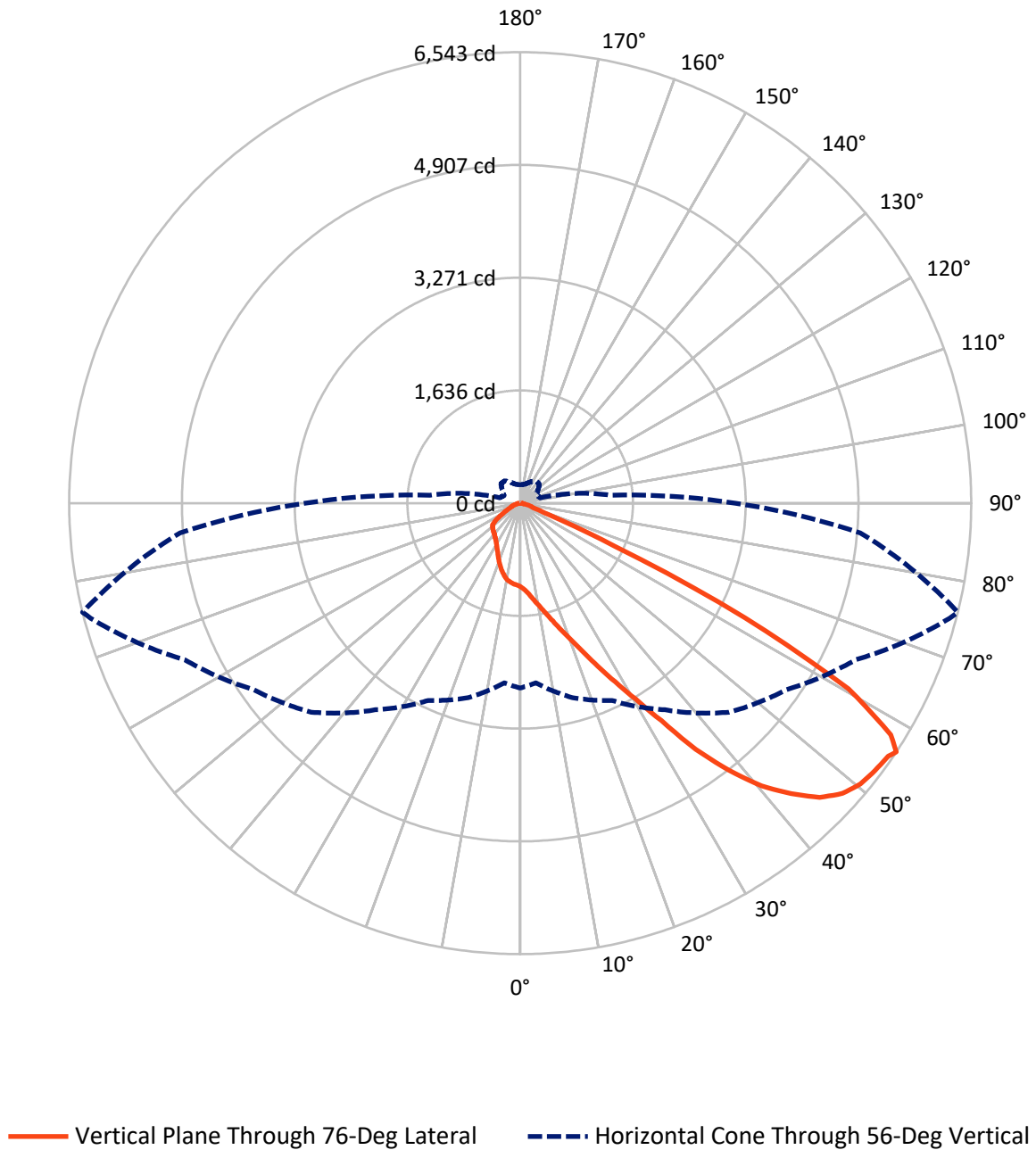
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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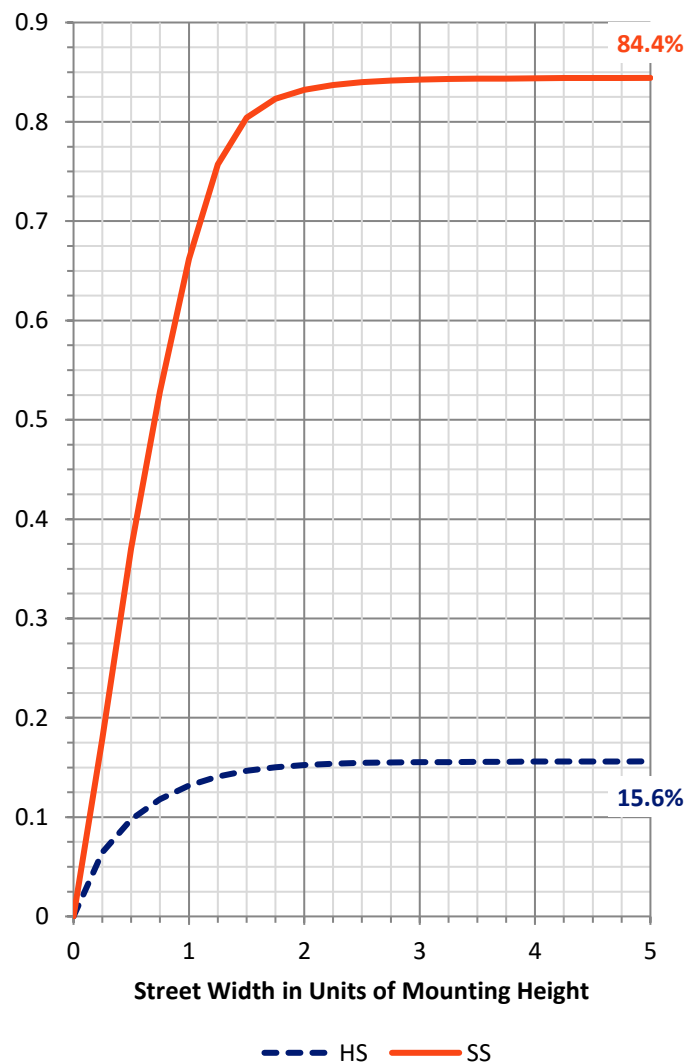
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.7	0.0	1145.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	6147.3	0.0	6147.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	7293.0	0.0	7293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	1.7
10°-20°	392.9	5.4
20°-30°	712.4	9.8
30°-40°	1228.5	16.8
40°-50°	1995.7	27.4
50°-60°	2103.6	28.8
60°-70°	642.7	8.8
70°-80°	82.4	1.1
80°-90°	12.5	0.2
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°	7293.0	100.0
0°-180°	7293.0	100.0

Coefficient of Utilization



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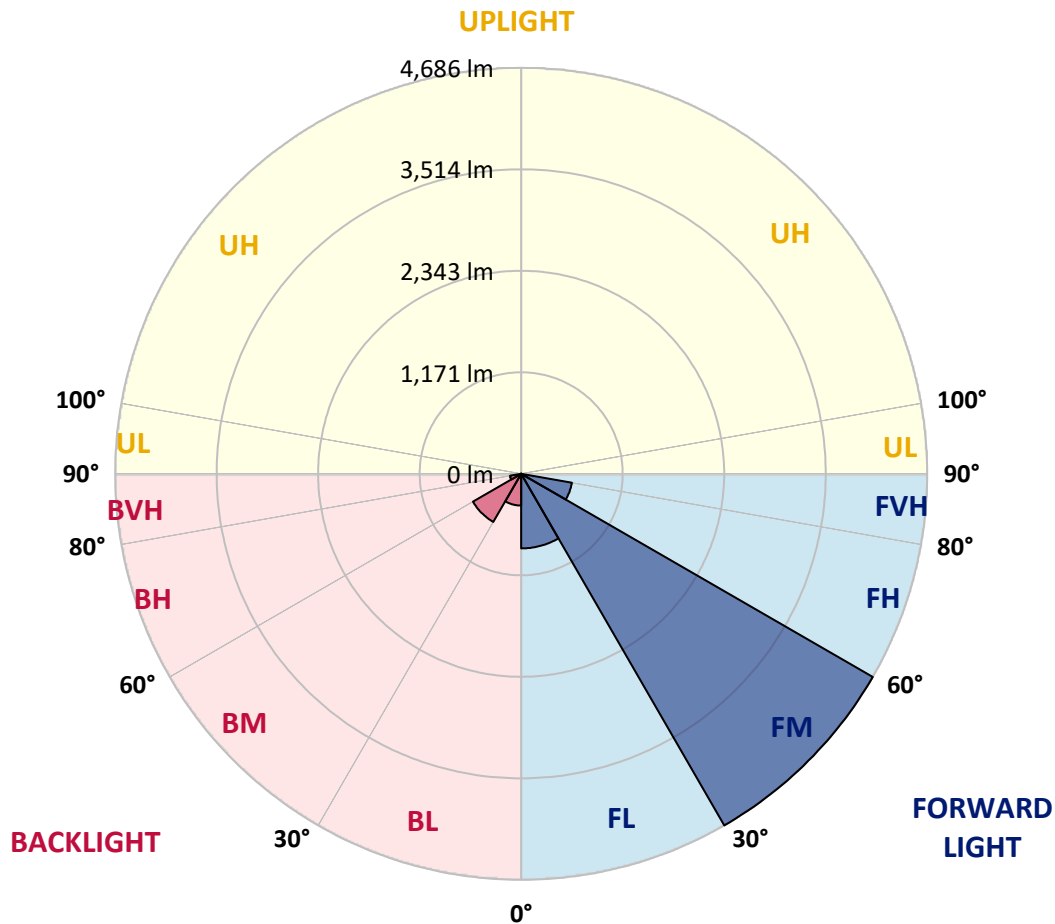
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	861.0	11.8			
FM	(30°-60°)	4685.7	64.2			
FH	(60°-80°)	594.4	8.2			G0/660
FVH	(80°-90°)	6.1	0.1			G0/10
BL	(0°-30°)	366.5	5.0	B1/500		
BM	(30°-60°)	642.1	8.8	B1/1000		
BH	(60°-80°)	130.7	1.8	B1/500		G1/500
BVH	(80°-90°)	6.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9
2.5°	1398.1	1365.8	1367.2	1364.5	1360.5	1345.7	1301.3	1294.6	1265.0	1256.9	1230.1
5°	1566.1	1537.9	1554.0	1529.8	1507.0	1493.6	1421.0	1387.3	1340.3	1322.8	1285.2
7.5°	1671.0	1657.6	1652.2	1653.5	1632.0	1598.4	1566.1	1492.2	1429.0	1415.6	1336.3
10°	1722.1	1714.0	1722.1	1718.1	1727.5	1731.5	1675.0	1630.7	1537.9	1515.1	1391.4
12.5°	1734.2	1750.3	1757.0	1774.5	1797.4	1836.4	1832.3	1771.8	1648.1	1633.4	1476.1
15°	1763.8	1777.2	1770.5	1798.7	1841.7	1907.6	1942.6	1933.1	1800.1	1773.2	1574.2
17.5°	1790.6	1766.5	1789.3	1845.8	1888.8	1989.6	2074.3	2113.3	1965.4	1934.5	1664.3
20°	1826.9	1820.2	1816.2	1844.4	1921.0	2055.5	2223.5	2294.8	2150.9	2118.7	1793.3
22.5°	1937.2	1938.5	1935.8	1894.2	1949.3	2101.2	2353.9	2530.0	2372.7	2345.9	1939.9
25°	2082.4	2064.9	2051.4	2017.8	2011.1	2142.9	2485.7	2817.7	2638.9	2620.1	2098.5
27.5°	2235.6	2235.6	2195.3	2164.4	2121.4	2246.4	2606.7	3097.3	2960.2	2934.7	2237.0
30°	2402.3	2411.7	2406.4	2340.5	2313.6	2359.3	2730.3	3454.9	3328.6	3296.3	2465.5
32.5°	2648.3	2628.2	2651.0	2595.9	2516.6	2556.9	2925.3	3774.9	3807.1	3761.4	2765.3
35°	2973.7	2961.6	2946.8	2856.7	2762.6	2794.9	3200.9	4168.8	4408.1	4385.2	3067.8
37.5°	3265.4	3258.7	3246.6	3184.7	3075.8	3114.8	3514.1	4578.8	4994.2	4918.9	3495.3
40°	3571.9	3608.2	3569.2	3514.1	3414.6	3500.6	3882.4	4822.1	5487.6	5396.1	3821.9
42.5°	3987.3	3959.1	3976.5	3875.7	3821.9	3916.0	4252.1	5065.4	5870.7	5761.8	4168.8
45°	4429.6	4430.9	4383.9	4351.6	4211.8	4314.0	4479.3	5199.9	6175.9	6091.2	4430.9
47.5°	4713.2	4711.9	4763.0	4814.0	4670.2	4569.4	4633.9	5327.6	6333.1	6294.2	4526.4
50°	4668.9	4682.3	4748.2	4939.1	5014.4	4878.6	4779.1	5289.9	6404.4	6400.4	4608.4
52.5°	4061.2	4105.6	4215.8	4491.4	4870.5	5038.6	4931.0	5359.8	6439.3	6446.1	4730.7
55°	3092.0	3116.2	3325.9	3660.6	4080.0	4655.4	4870.5	5415.0	6466.2	6478.3	4878.6
56°	2681.9	2617.4	2919.9	3157.8	3659.3	4288.4	4717.3	5371.9	6450.1	6542.9	4952.5
57.5°	2024.6	1981.5	2226.2	2523.3	3005.9	3670.0	4241.4	5169.0	6341.2	6339.9	4846.3
60°	1231.4	1188.4	1376.6	1551.4	1821.6	2259.8	2866.1	4116.3	5361.2	5474.1	3924.1
62.5°	732.7	759.5	945.1	1051.3	1138.6	1184.4	1482.8	2446.7	3577.3	3657.9	2434.6
65°	488.0	497.4	637.2	812.0	851.0	677.5	603.6	990.8	1551.4	1501.6	1004.2
67.5°	301.1	322.6	427.5	610.3	676.2	494.7	286.3	369.7	427.5	427.5	290.4
70°	182.8	193.6	285.0	415.4	463.8	318.6	208.4	208.4	205.7	201.6	173.4
72.5°	87.4	94.1	145.2	213.7	217.8	168.0	161.3	176.1	172.1	170.7	143.8
75°	37.6	40.3	51.1	67.2	76.6	71.2	98.1	126.4	130.4	126.4	103.5
77.5°	12.1	13.4	18.8	24.2	25.5	30.9	41.7	52.4	60.5	56.5	51.1
80°	1.3	2.7	5.4	12.1	18.8	24.2	30.9	35.0	39.0	39.0	36.3
82.5°	1.3	1.3	5.4	10.8	17.5	22.9	29.6	33.6	39.0	40.3	37.6
85°	0.0	1.3	4.0	9.4	14.8	14.8	13.4	13.4	9.4	9.4	9.4
87.5°	0.0	0.0	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7
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°	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9	1213.9
2.5°	1224.7	1222.0	1185.7	1162.8	1150.7	1126.5	1111.8	1101.0	1092.9	1083.5	1084.9
5°	1240.8	1231.4	1170.9	1129.2	1079.5	1052.6	1029.8	1010.9	998.8	996.1	990.8
7.5°	1286.5	1236.8	1145.4	1070.1	1006.9	980.0	959.9	947.8	953.1	941.0	950.4
10°	1321.5	1247.5	1114.5	1005.6	942.4	922.2	911.5	920.9	934.3	928.9	922.2
12.5°	1364.5	1258.3	1064.7	943.7	884.6	869.8	888.6	906.1	933.0	943.7	930.3
15°	1412.9	1270.4	1001.5	872.5	834.8	846.9	879.2	910.1	937.0	950.4	958.5
17.5°	1472.0	1266.4	939.7	816.0	787.8	822.7	861.7	889.9	930.3	950.4	945.1
20°	1527.2	1252.9	871.1	759.5	760.9	793.2	825.4	871.1	892.6	919.5	910.1
22.5°	1579.6	1228.7	799.9	720.6	720.6	770.3	786.4	816.0	834.8	848.3	846.9
25°	1653.5	1183.0	740.7	682.9	699.1	731.3	744.8	754.2	746.1	756.9	758.2
27.5°	1706.0	1136.0	692.3	649.3	678.9	703.1	699.1	693.7	674.9	660.1	669.5
30°	1762.4	1080.8	650.7	626.5	642.6	664.1	648.0	631.8	602.3	578.1	579.4
32.5°	1843.1	1055.3	614.4	599.6	621.1	623.8	606.3	582.1	552.5	529.7	528.3
35°	1993.6	1039.2	583.4	582.1	586.1	587.5	570.0	540.4	528.3	509.5	516.2
37.5°	2144.2	1031.1	561.9	556.6	555.2	556.6	536.4	508.2	531.0	529.7	532.4
40°	2336.4	1067.4	531.0	524.3	525.6	525.6	500.1	492.0	532.4	536.4	537.7
42.5°	2531.4	1113.1	510.8	489.3	494.7	494.7	481.3	471.9	500.1	473.2	469.2
45°	2700.8	1180.3	489.3	454.4	467.8	474.5	470.5	454.4	436.9	391.2	391.2
47.5°	2755.9	1239.5	463.8	420.8	431.5	461.1	449.0	415.4	384.5	346.8	344.1
50°	2852.7	1304.0	443.6	381.8	404.6	440.9	428.8	395.2	360.3	333.4	334.7
52.5°	2952.2	1377.9	406.0	336.1	364.3	424.8	424.8	387.2	333.4	314.6	311.9
55°	3101.4	1375.3	338.8	275.6	325.3	400.6	407.3	346.8	298.4	283.7	283.7
56°	3122.9	1313.4	305.2	258.1	307.9	393.9	395.2	336.1	285.0	268.9	268.9
57.5°	2961.6	1185.7	267.5	236.6	286.3	381.8	383.1	326.7	274.2	251.4	248.7
60°	2278.6	802.6	223.2	211.1	259.5	344.1	350.9	297.1	240.6	223.2	221.8
62.5°	1286.5	445.0	196.3	190.9	223.2	293.1	313.2	259.5	204.3	194.9	197.6
65°	587.5	244.7	165.4	154.6	180.1	225.8	252.7	213.7	168.0	157.3	157.3
67.5°	215.1	166.7	141.2	122.3	126.4	146.5	164.0	138.5	111.6	95.4	99.5
70°	153.3	139.8	123.7	106.2	98.1	95.4	94.1	78.0	55.1	43.0	45.7
72.5°	123.7	115.6	103.5	90.1	76.6	64.5	55.1	40.3	25.5	17.5	16.1
75°	88.7	84.7	75.3	64.5	53.8	45.7	37.6	25.5	13.4	6.7	6.7
77.5°	45.7	45.7	44.4	40.3	33.6	26.9	21.5	14.8	8.1	2.7	2.7
80°	35.0	37.6	39.0	35.0	30.9	24.2	17.5	10.8	5.4	1.3	1.3
82.5°	33.6	39.0	41.7	36.3	30.9	22.9	17.5	10.8	5.4	1.3	1.3
85°	8.1	8.1	12.1	13.4	17.5	18.8	14.8	9.4	4.0	1.3	1.3
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	1.3	1.3	1.3	1.3	0.0
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)