

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: P527641

Luminaire Tested: **GALN-SA2C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527641
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-SA2C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 6627 lumens
Efficiency: N/A
Efficacy: 61.4 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): 108
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

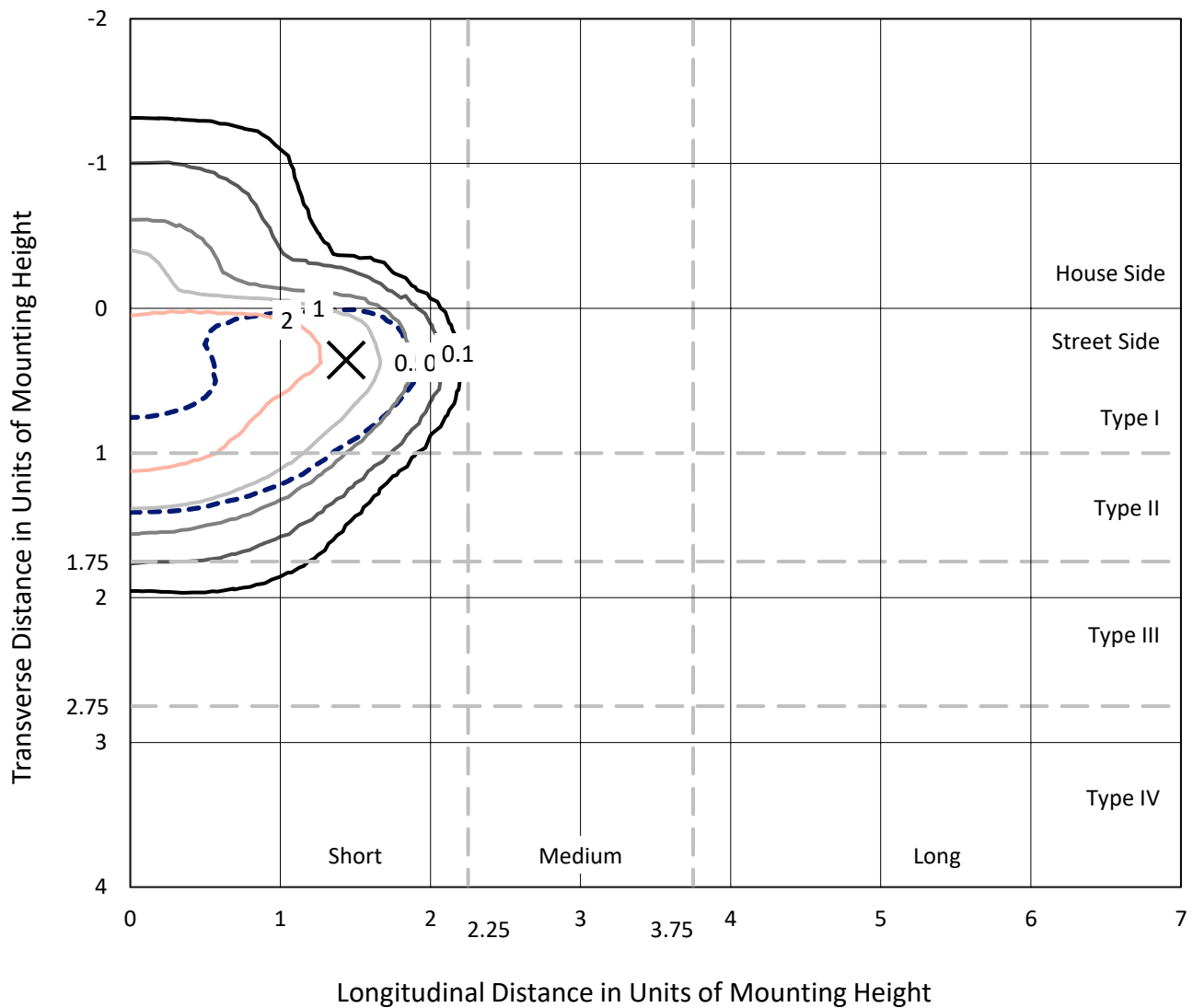


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Iso-Footcandle Lines of Horizontal Illumination

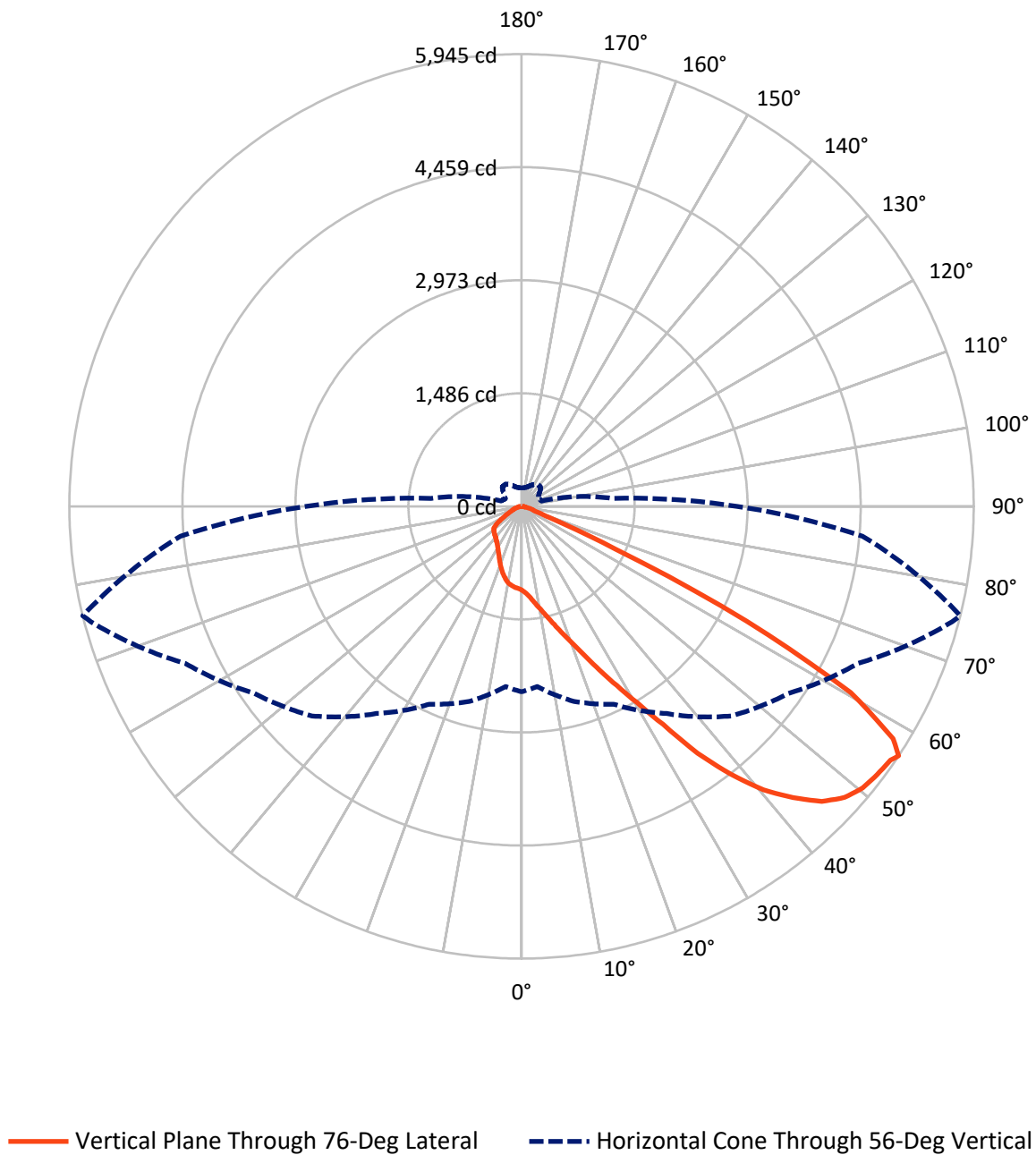
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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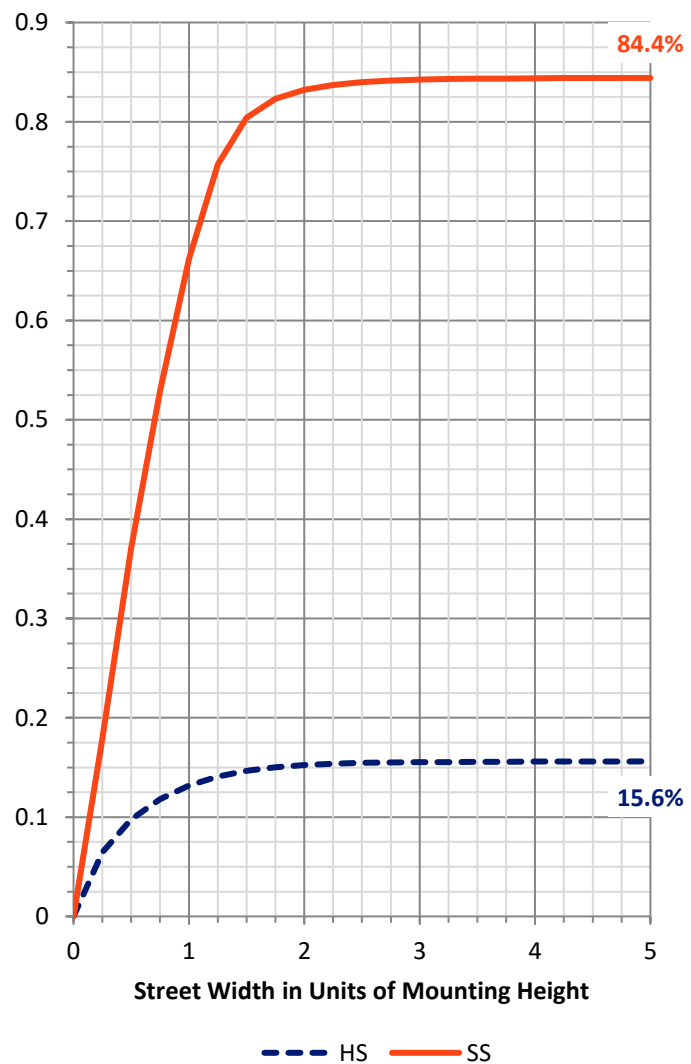
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1041.1	0.0	1041.1
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5585.9	0.0	5585.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	6627.0	0.0	6627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	1.7
10°-20°	357.0	5.4
20°-30°	647.3	9.8
30°-40°	1116.3	16.8
40°-50°	1813.5	27.4
50°-60°	1911.5	28.8
60°-70°	584.0	8.8
70°-80°	74.9	1.1
80°-90°	11.4	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°	6627.0	100.0
0°-180°	6627.0	100.0

Coefficient of Utilization



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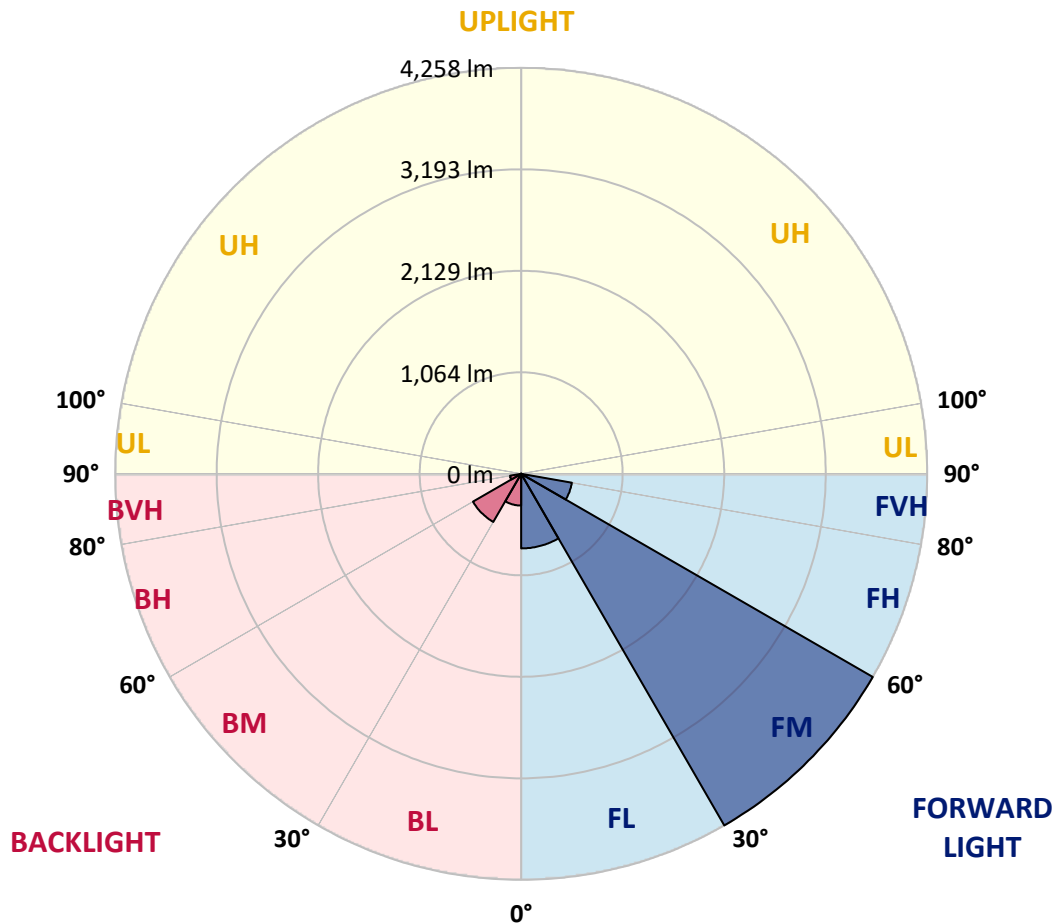
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.4	11.8			
FM	(30°-60°)	4257.8	64.3			
FH	(60°-80°)	540.1	8.2			G0/660
FVH	(80°-90°)	5.6	0.1			G0/10
BL	(0°-30°)	333.0	5.0	B1/500		
BM	(30°-60°)	583.5	8.8	B1/1000		
BH	(60°-80°)	118.8	1.8	B1/500		G1/500
BVH	(80°-90°)	5.8	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°	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1
2.5°	1270.4	1241.1	1242.3	1239.9	1236.2	1222.8	1182.5	1176.4	1149.5	1142.2	1117.7
5°	1423.1	1397.5	1412.1	1390.1	1369.4	1357.2	1291.2	1260.7	1217.9	1202.0	1167.8
7.5°	1518.4	1506.2	1501.3	1502.5	1483.0	1452.4	1423.1	1355.9	1298.5	1286.3	1214.2
10°	1564.8	1557.5	1564.8	1561.2	1569.7	1573.4	1522.1	1481.8	1397.5	1376.7	1264.3
12.5°	1575.8	1590.5	1596.6	1612.5	1633.2	1668.7	1665.0	1610.0	1497.6	1484.2	1341.3
15°	1602.7	1614.9	1608.8	1634.5	1673.5	1733.4	1765.2	1756.6	1635.7	1611.2	1430.5
17.5°	1627.1	1605.1	1625.9	1677.2	1716.3	1807.9	1884.9	1920.3	1785.9	1757.8	1512.3
20°	1660.1	1654.0	1650.3	1676.0	1745.6	1867.8	2020.5	2085.2	1954.5	1925.2	1629.6
22.5°	1760.3	1761.5	1759.1	1721.2	1771.3	1909.3	2139.0	2299.0	2156.1	2131.6	1762.7
25°	1892.2	1876.3	1864.1	1833.6	1827.5	1947.2	2258.7	2560.4	2397.9	2380.8	1906.9
27.5°	2031.5	2031.5	1994.8	1966.7	1927.6	2041.2	2368.6	2814.5	2689.9	2666.7	2032.7
30°	2182.9	2191.5	2186.6	2126.7	2102.3	2143.8	2481.0	3139.4	3024.6	2995.3	2240.4
32.5°	2406.5	2388.2	2408.9	2358.8	2286.8	2323.4	2658.1	3430.2	3459.5	3417.9	2512.8
35°	2702.1	2691.1	2677.7	2595.8	2510.3	2539.6	2908.5	3788.1	4005.5	3984.7	2787.6
37.5°	2967.2	2961.1	2950.1	2893.9	2794.9	2830.4	3193.2	4160.7	4538.1	4469.7	3176.1
40°	3245.7	3278.7	3243.3	3193.2	3102.8	3181.0	3527.9	4381.8	4986.4	4903.4	3472.9
42.5°	3623.2	3597.5	3613.4	3521.8	3472.9	3558.4	3863.8	4602.9	5334.6	5235.6	3788.1
45°	4025.1	4026.3	3983.5	3954.2	3827.2	3920.0	4070.3	4725.0	5611.9	5534.9	4026.3
47.5°	4282.8	4281.6	4328.0	4374.4	4243.7	4152.1	4210.7	4841.1	5754.8	5719.4	4113.0
50°	4242.5	4254.7	4314.6	4488.0	4556.4	4433.1	4342.7	4806.9	5819.5	5815.9	4187.5
52.5°	3690.4	3730.7	3830.8	4081.3	4425.7	4578.4	4480.7	4870.4	5851.3	5857.4	4298.7
55°	2809.6	2831.6	3022.2	3326.3	3707.5	4230.3	4425.7	4920.5	5875.7	5886.7	4433.1
56°	2437.0	2378.4	2653.2	2869.5	3325.1	3896.8	4286.5	4881.4	5861.1	5945.4	4500.2
57.5°	1839.7	1800.6	2022.9	2292.9	2731.4	3334.9	3854.0	4696.9	5762.1	5760.9	4403.7
60°	1119.0	1079.9	1250.9	1409.7	1655.2	2053.5	2604.4	3740.4	4871.6	4974.2	3565.8
62.5°	665.8	690.2	858.8	955.3	1034.7	1076.2	1347.4	2223.3	3250.6	3323.9	2212.3
65°	443.4	452.0	579.0	737.8	773.3	615.7	548.5	900.3	1409.7	1364.5	912.5
67.5°	273.6	293.2	388.5	554.6	614.4	449.5	260.2	335.9	388.5	388.5	263.9
70°	166.1	175.9	259.0	377.5	421.4	289.5	189.3	189.3	186.9	183.2	157.6
72.5°	79.4	85.5	131.9	194.2	197.9	152.7	146.6	160.0	156.4	155.1	130.7
75°	34.2	36.6	46.4	61.1	69.6	64.7	89.2	114.8	118.5	114.8	94.1
77.5°	11.0	12.2	17.1	22.0	23.2	28.1	37.9	47.6	55.0	51.3	46.4
80°	1.2	2.4	4.9	11.0	17.1	22.0	28.1	31.8	35.4	35.4	33.0
82.5°	1.2	1.2	4.9	9.8	15.9	20.8	26.9	30.5	35.4	36.6	34.2
85°	0.0	1.2	3.7	8.6	13.4	13.4	12.2	12.2	8.6	8.6	8.6
87.5°	0.0	0.0	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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°	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1	1103.1
2.5°	1112.8	1110.4	1077.4	1056.7	1045.7	1023.7	1010.2	1000.5	993.1	984.6	985.8
5°	1127.5	1119.0	1064.0	1026.1	980.9	956.5	935.7	918.6	907.6	905.2	900.3
7.5°	1169.0	1123.8	1040.8	972.4	915.0	890.5	872.2	861.2	866.1	855.1	863.6
10°	1200.8	1133.6	1012.7	913.7	856.3	838.0	828.2	836.8	849.0	844.1	838.0
12.5°	1239.9	1143.4	967.5	857.5	803.8	790.4	807.5	823.3	847.8	857.5	845.3
15°	1283.9	1154.4	910.1	792.8	758.6	769.6	798.9	827.0	851.4	863.6	871.0
17.5°	1337.6	1150.7	853.9	741.5	715.8	747.6	783.0	808.7	845.3	863.6	858.8
20°	1387.7	1138.5	791.6	690.2	691.4	720.7	750.0	791.6	811.1	835.6	827.0
22.5°	1435.3	1116.5	726.8	654.8	654.8	700.0	714.6	741.5	758.6	770.8	769.6
25°	1502.5	1075.0	673.1	620.6	635.2	664.5	676.7	685.3	678.0	687.7	689.0
27.5°	1550.2	1032.2	629.1	590.0	616.9	638.9	635.2	630.3	613.2	599.8	608.3
30°	1601.5	982.1	591.2	569.2	583.9	603.5	588.8	574.1	547.3	525.3	526.5
32.5°	1674.8	958.9	558.3	544.8	564.4	566.8	550.9	528.9	502.1	481.3	480.1
35°	1811.6	944.3	530.2	528.9	532.6	533.8	517.9	491.1	480.1	463.0	469.1
37.5°	1948.4	936.9	510.6	505.7	504.5	505.7	487.4	461.8	482.5	481.3	483.7
40°	2123.1	969.9	482.5	476.4	477.6	477.6	454.4	447.1	483.7	487.4	488.6
42.5°	2300.2	1011.5	464.2	444.7	449.5	449.5	437.3	428.8	454.4	430.0	426.3
45°	2454.1	1072.5	444.7	412.9	425.1	431.2	427.5	412.9	397.0	355.5	355.5
47.5°	2504.2	1126.3	421.4	382.4	392.1	419.0	408.0	377.5	349.4	315.2	312.7
50°	2592.2	1184.9	403.1	346.9	367.7	400.7	389.7	359.1	327.4	302.9	304.2
52.5°	2682.6	1252.1	368.9	305.4	331.0	386.0	386.0	351.8	302.9	285.8	283.4
55°	2818.2	1249.7	307.8	250.4	295.6	364.0	370.1	315.2	271.2	257.8	257.8
56°	2837.7	1193.5	277.3	234.5	279.7	357.9	359.1	305.4	259.0	244.3	244.3
57.5°	2691.1	1077.4	243.1	215.0	260.2	346.9	348.1	296.8	249.2	228.4	226.0
60°	2070.6	729.3	202.8	191.8	235.8	312.7	318.8	270.0	218.7	202.8	201.6
62.5°	1169.0	404.3	178.3	173.5	202.8	266.3	284.6	235.8	185.7	177.1	179.6
65°	533.8	222.3	150.3	140.5	163.7	205.2	229.7	194.2	152.7	142.9	142.9
67.5°	195.5	151.5	128.3	111.2	114.8	133.2	149.0	125.8	101.4	86.7	90.4
70°	139.3	127.0	112.4	96.5	89.2	86.7	85.5	70.9	50.1	39.1	41.5
72.5°	112.4	105.1	94.1	81.8	69.6	58.6	50.1	36.6	23.2	15.9	14.7
75°	80.6	77.0	68.4	58.6	48.9	41.5	34.2	23.2	12.2	6.1	6.1
77.5°	41.5	41.5	40.3	36.6	30.5	24.4	19.5	13.4	7.3	2.4	2.4
80°	31.8	34.2	35.4	31.8	28.1	22.0	15.9	9.8	4.9	1.2	1.2
82.5°	30.5	35.4	37.9	33.0	28.1	20.8	15.9	9.8	4.9	1.2	1.2
85°	7.3	7.3	11.0	12.2	15.9	17.1	13.4	8.6	3.7	1.2	1.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	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)