

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: P528579

Luminaire Tested: **GALN-SA3C-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11030 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 160
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

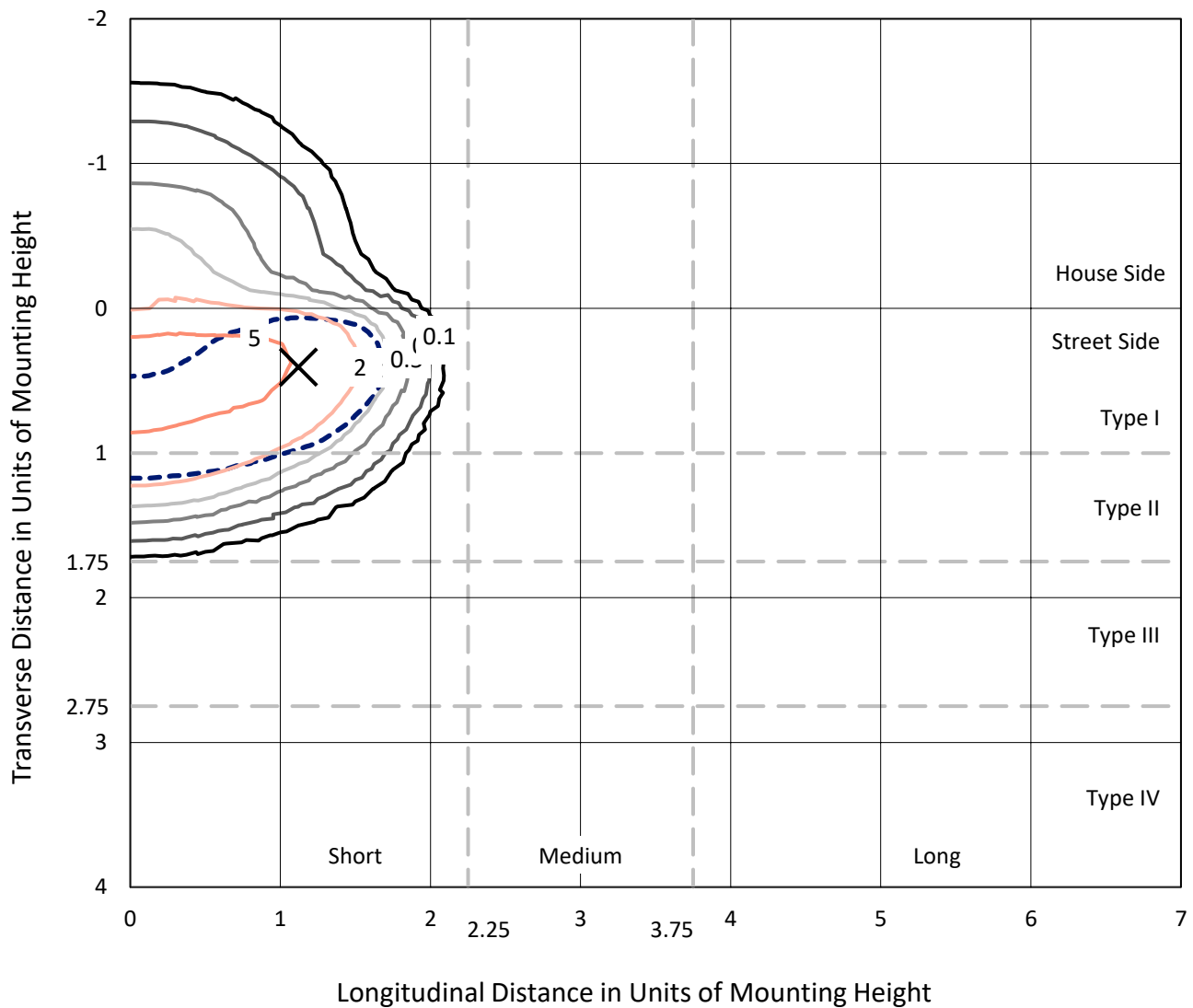


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

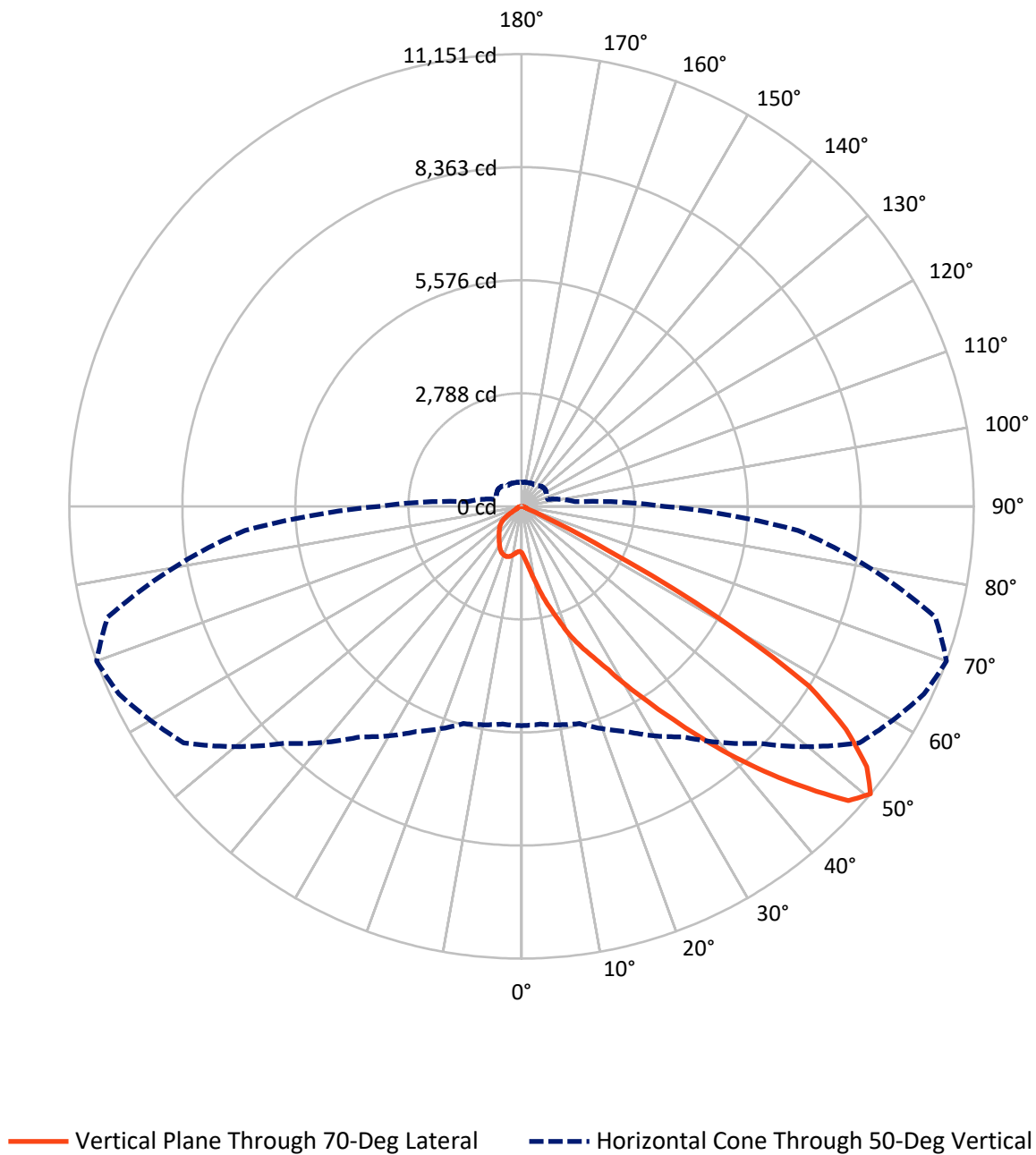


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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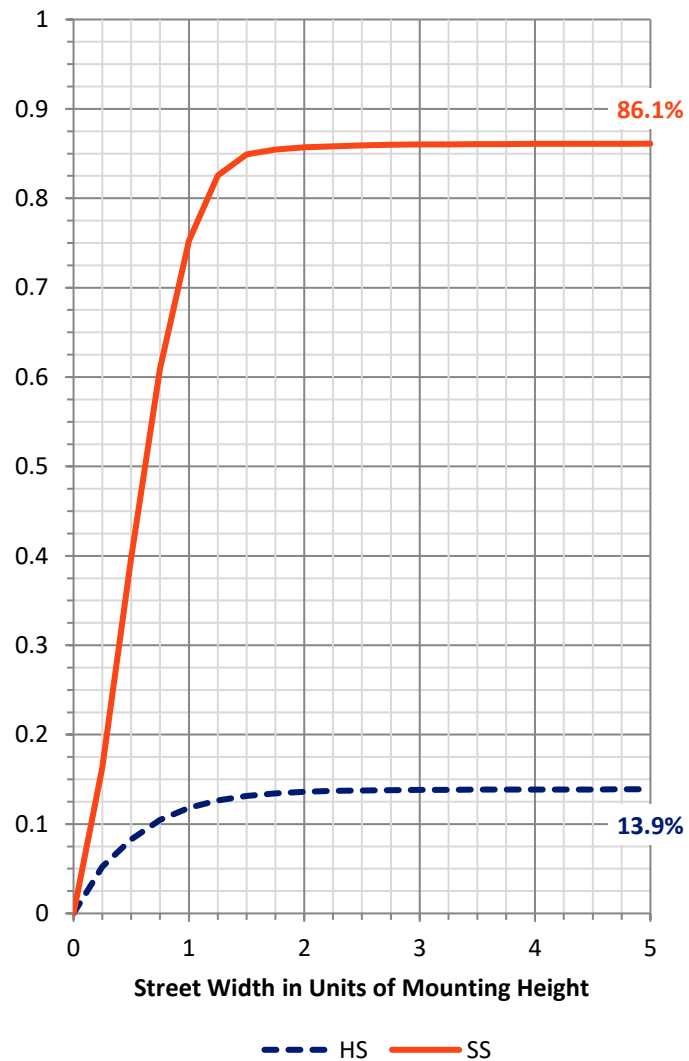
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1540.4	0.0	1540.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	9489.6	0.0	9489.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	11030.0	0.0	11030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	1.3
10°-20°	642.6	5.8
20°-30°	1348.2	12.2
30°-40°	2323.8	21.1
40°-50°	3396.2	30.8
50°-60°	2645.1	24.0
60°-70°	448.1	4.1
70°-80°	61.6	0.6
80°-90°	15.9	0.1
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°	11030.0	100.0
0°-180°	11030.0	100.0

Coefficient of Utilization



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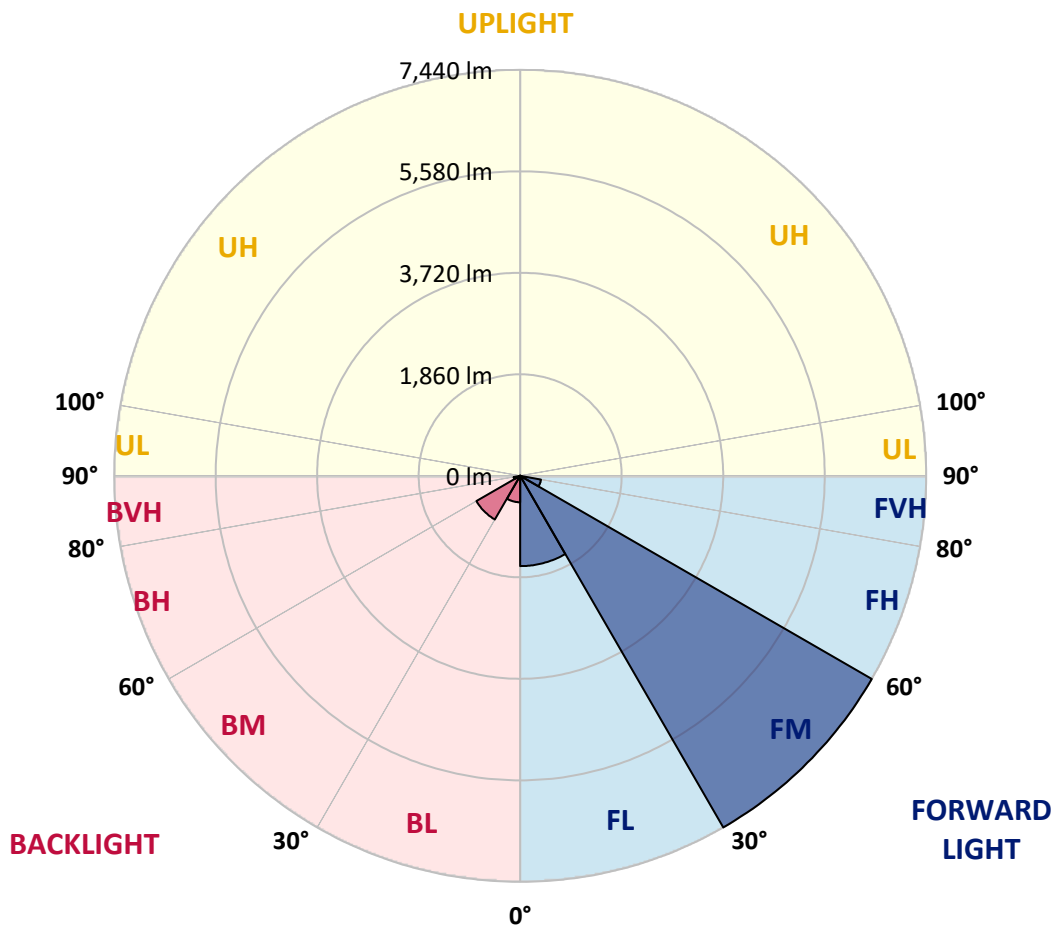
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.6	15.0			
FM	(30°-60°)	7439.5	67.4			
FH	(60°-80°)	388.0	3.5			G0/660
FVH	(80°-90°)	7.4	0.1			G0/10
BL	(0°-30°)	484.7	4.4	B1/500		
BM	(30°-60°)	925.4	8.4	B1/1000		
BH	(60°-80°)	121.7	1.1	B1/500		G1/500
BVH	(80°-90°)	8.6	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1496.1	1485.2	1461.7	1418.1	1400.0	1356.5	1331.1	1282.1	1251.3	1216.8	1178.8
5°	2107.3	2051.0	2016.6	1967.6	1824.4	1735.5	1588.6	1463.5	1405.4	1342.0	1254.9
7.5°	2738.4	2702.1	2654.9	2549.7	2451.8	2266.8	2014.8	1739.1	1621.2	1512.4	1340.2
10°	3260.6	3159.1	3153.6	3075.7	2968.7	2747.4	2444.6	2101.8	1891.5	1731.9	1461.7
12.5°	3625.1	3532.7	3574.4	3565.3	3465.6	3262.4	2912.4	2459.1	2239.6	1991.2	1586.8
15°	3957.0	3918.9	3906.2	3895.3	3855.5	3704.9	3391.2	2894.3	2577.0	2277.7	1728.2
17.5°	4281.6	4183.7	4230.8	4239.9	4236.3	4100.3	3806.5	3307.8	2934.2	2580.6	1876.9
20°	4570.0	4579.0	4515.6	4502.9	4492.0	4486.5	4200.0	3717.6	3373.1	2897.9	2071.0
22.5°	4939.9	4876.4	4932.7	4896.4	4825.7	4782.1	4562.7	4080.3	3753.9	3280.6	2268.7
25°	5377.0	5427.7	5295.4	5280.8	5202.9	5052.3	4854.7	4486.5	4120.2	3636.0	2482.7
27.5°	5915.6	5826.7	5792.2	5712.5	5571.0	5507.5	5275.4	4905.5	4562.7	4009.6	2689.4
30°	6378.0	6354.4	6182.1	6087.8	5964.5	5962.7	5638.1	5473.1	5139.4	4595.4	2974.1
32.5°	6755.2	6651.8	6588.4	6523.1	6423.3	6450.5	6176.7	6089.7	5754.2	5139.4	3309.6
35°	7007.3	6932.9	6894.8	6795.1	6766.1	6887.6	6773.3	6737.1	6461.4	5904.7	3703.1
37.5°	7087.1	7110.6	7103.4	6978.3	7039.9	7368.2	7515.1	7420.7	7275.7	6711.7	4129.3
40°	7157.8	7174.1	7137.8	7284.7	7460.6	7834.2	8365.6	8209.6	8155.2	7529.6	4722.3
42.5°	7197.7	7185.0	7185.0	7438.9	7705.5	8456.2	9187.1	9083.7	9042.0	8400.0	5407.8
45°	7025.4	6902.1	7034.5	7379.0	7915.8	8762.7	9843.6	9986.8	9927.0	9435.5	6209.3
47.5°	6381.6	6457.8	6532.1	6992.8	7660.1	8668.4	10246.1	10734.0	10844.6	10306.0	6735.3
50°	5407.8	5391.5	5545.6	6125.9	6936.6	8262.2	10168.2	10949.8	11151.1	10567.1	6845.9
52.5°	3933.4	4053.1	4220.0	4796.6	5757.8	7210.4	9161.7	10393.0	10661.4	10246.1	6773.3
55°	2290.4	2158.0	2533.4	3021.3	3928.0	5438.6	7745.4	9212.5	9709.4	9662.2	6407.0
57.5°	917.6	888.6	1017.4	1371.0	2049.2	3371.3	5632.7	7569.5	8365.6	8849.8	5630.8
60°	402.6	393.5	462.4	558.6	837.8	1554.2	3081.1	4707.8	5538.4	6184.0	3875.4
62.5°	290.2	286.5	321.0	355.4	442.5	676.4	1294.8	1896.9	2364.8	2856.2	1735.5
65°	233.9	243.0	266.6	284.7	326.4	375.4	457.0	527.7	647.4	671.0	382.6
67.5°	190.4	197.7	219.4	239.4	246.6	203.1	210.4	185.0	185.0	165.0	132.4
70°	139.6	141.5	166.8	190.4	152.3	81.6	143.3	143.3	128.8	123.3	112.4
72.5°	103.4	105.2	125.1	117.9	59.8	50.8	105.2	116.1	105.2	99.7	90.7
75°	76.2	78.0	65.3	27.2	25.4	32.6	61.7	79.8	76.2	74.4	68.9
77.5°	14.5	10.9	9.1	12.7	18.1	27.2	39.9	49.0	50.8	54.4	50.8
80°	1.8	1.8	5.4	10.9	19.9	29.0	41.7	47.2	49.0	50.8	47.2
82.5°	0.0	1.8	5.4	10.9	19.9	27.2	36.3	41.7	45.3	47.2	45.3
85°	0.0	1.8	3.6	9.1	16.3	19.9	18.1	12.7	10.9	12.7	9.1
87.5°	0.0	0.0	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1157.0	1149.7	1124.4	1097.2	1073.6	1084.5	1073.6	1064.5	1068.1	1064.5	1060.9
5°	1220.5	1187.8	1133.4	1109.8	1089.9	1088.1	1082.6	1080.8	1082.6	1082.6	1066.3
7.5°	1280.3	1227.7	1169.7	1144.3	1120.7	1122.5	1109.8	1109.8	1108.0	1099.0	1095.3
10°	1371.0	1300.3	1225.9	1180.6	1151.6	1146.1	1133.4	1120.7	1120.7	1120.7	1102.6
12.5°	1470.7	1381.9	1280.3	1227.7	1193.3	1166.1	1146.1	1142.5	1122.5	1118.9	1109.8
15°	1557.8	1445.3	1316.6	1244.0	1200.5	1164.3	1133.4	1113.5	1104.4	1099.0	1091.7
17.5°	1643.0	1499.7	1336.5	1244.0	1196.9	1155.2	1122.5	1104.4	1082.6	1086.3	1071.8
20°	1757.3	1557.8	1342.0	1220.5	1162.4	1122.5	1079.0	1070.0	1057.3	1046.4	1050.0
22.5°	1867.9	1599.5	1325.7	1191.5	1108.0	1060.9	1039.1	1028.2	1022.8	1013.7	1001.0
25°	1967.6	1644.8	1300.3	1138.9	1050.0	1015.5	995.6	993.8	981.1	981.1	957.5
27.5°	2069.2	1661.1	1256.7	1077.2	999.2	979.3	970.2	966.6	961.1	948.4	932.1
30°	2185.2	1666.6	1193.3	1013.7	953.9	932.1	944.8	953.9	930.3	906.7	914.0
32.5°	2281.4	1653.9	1117.1	953.9	921.2	910.4	935.8	944.8	917.6	892.2	879.5
35°	2397.4	1623.1	1042.7	906.7	888.6	910.4	932.1	932.1	877.7	846.9	839.6
37.5°	2573.3	1588.6	973.8	866.8	854.1	899.5	928.5	908.6	823.3	785.2	776.2
40°	2761.9	1566.8	906.7	826.9	836.0	881.4	897.7	836.0	749.0	725.4	718.1
42.5°	3035.8	1523.3	846.9	792.5	819.7	856.0	856.0	745.3	712.7	700.0	698.2
45°	3376.7	1492.5	794.3	763.5	796.1	805.2	776.2	698.2	674.6	671.0	672.8
47.5°	3543.5	1432.6	739.9	729.0	752.6	754.4	678.2	660.1	640.2	634.7	631.1
50°	3518.1	1325.7	669.2	683.7	716.3	698.2	618.4	622.0	603.9	602.1	593.0
52.5°	3340.4	1157.0	598.4	632.9	669.2	616.6	569.4	565.8	565.8	542.2	533.2
55°	2961.4	932.1	513.2	556.7	600.3	518.7	506.0	502.3	493.3	471.5	466.1
57.5°	2344.8	683.7	386.3	433.4	509.6	440.7	438.9	422.5	399.0	382.6	382.6
60°	1394.6	393.5	243.0	264.8	337.3	357.3	397.2	389.9	350.0	324.6	317.4
62.5°	636.5	203.1	154.1	157.8	181.3	232.1	311.9	360.9	304.7	261.1	257.5
65°	214.0	150.5	126.9	121.5	125.1	139.6	186.8	255.7	243.0	201.3	194.0
67.5°	130.6	134.2	119.7	110.6	110.6	108.8	107.0	116.1	143.3	139.6	141.5
70°	112.4	123.3	110.6	99.7	96.1	90.7	76.2	63.5	54.4	63.5	67.1
72.5°	90.7	97.9	94.3	85.2	76.2	68.9	54.4	41.7	30.8	27.2	27.2
75°	67.1	72.5	76.2	65.3	58.0	49.0	39.9	27.2	16.3	10.9	10.9
77.5°	49.0	54.4	56.2	50.8	43.5	34.5	25.4	18.1	9.1	3.6	3.6
80°	41.7	49.0	54.4	50.8	45.3	32.6	23.6	12.7	7.3	1.8	1.8
82.5°	39.9	49.0	54.4	49.0	43.5	30.8	23.6	14.5	5.4	1.8	1.8
85°	9.1	12.7	16.3	19.9	23.6	23.6	18.1	10.9	5.4	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	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)