

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: P452095

Luminaire Tested: **GALN-SA3A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452095
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12671 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

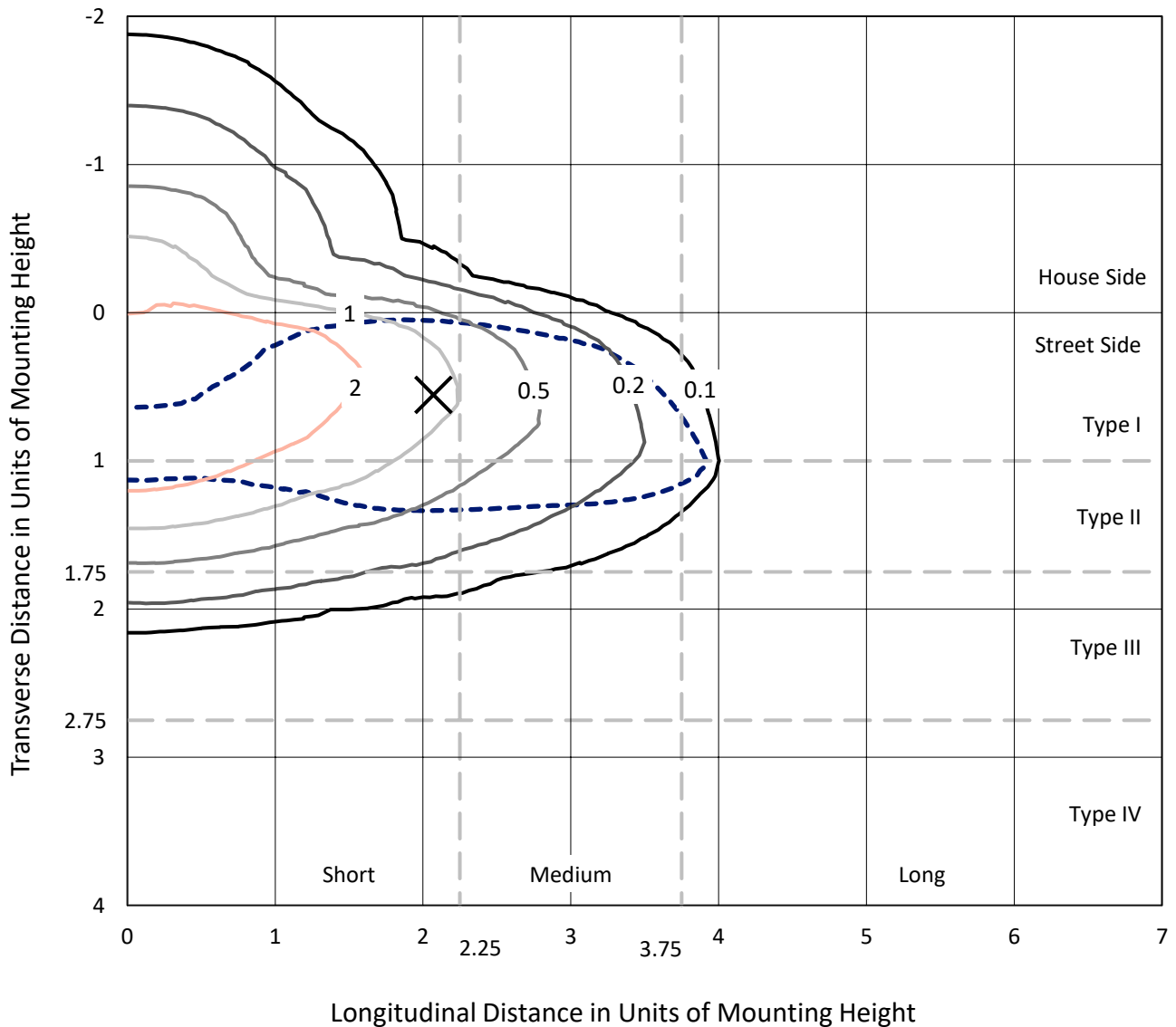
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

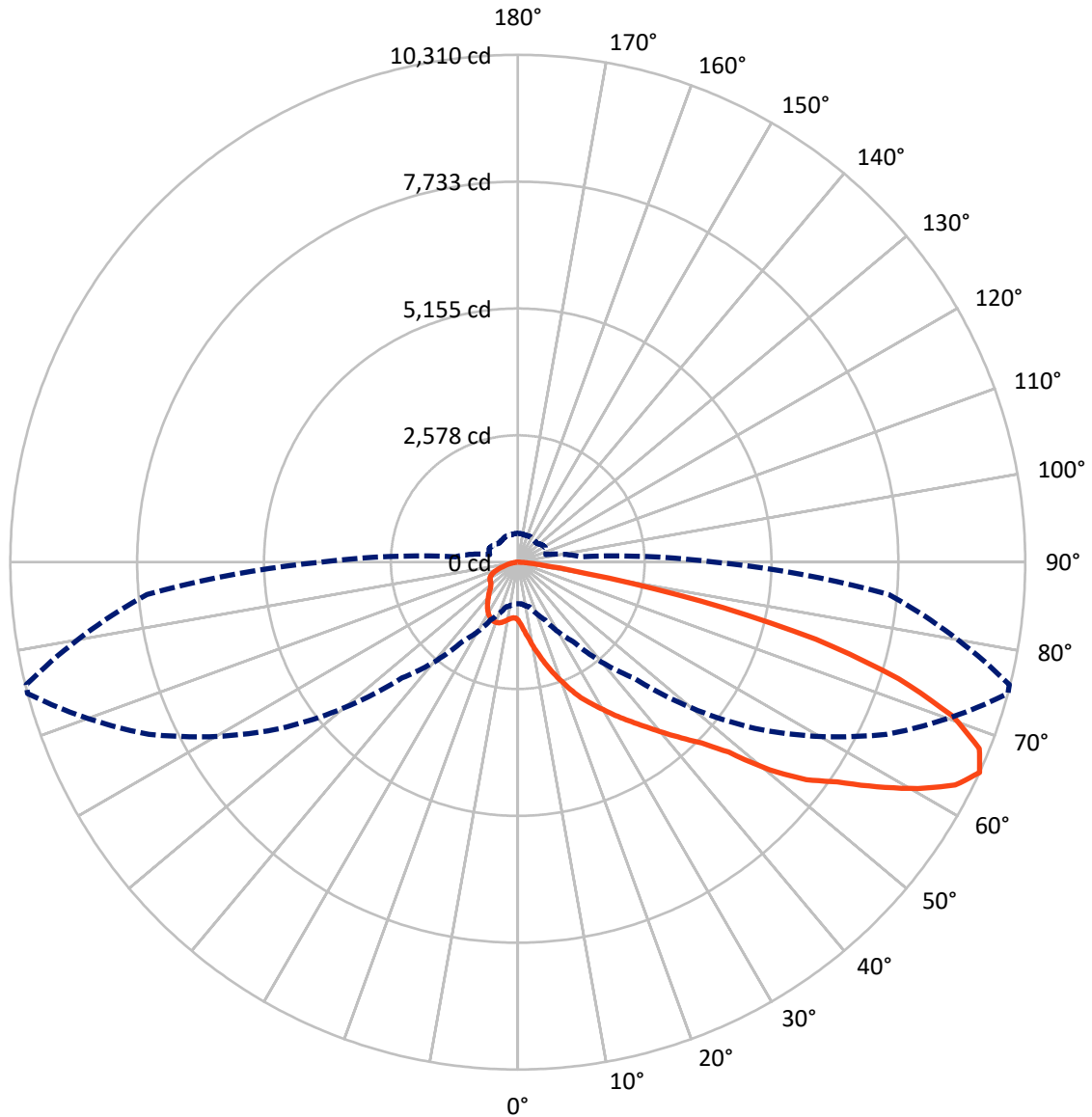
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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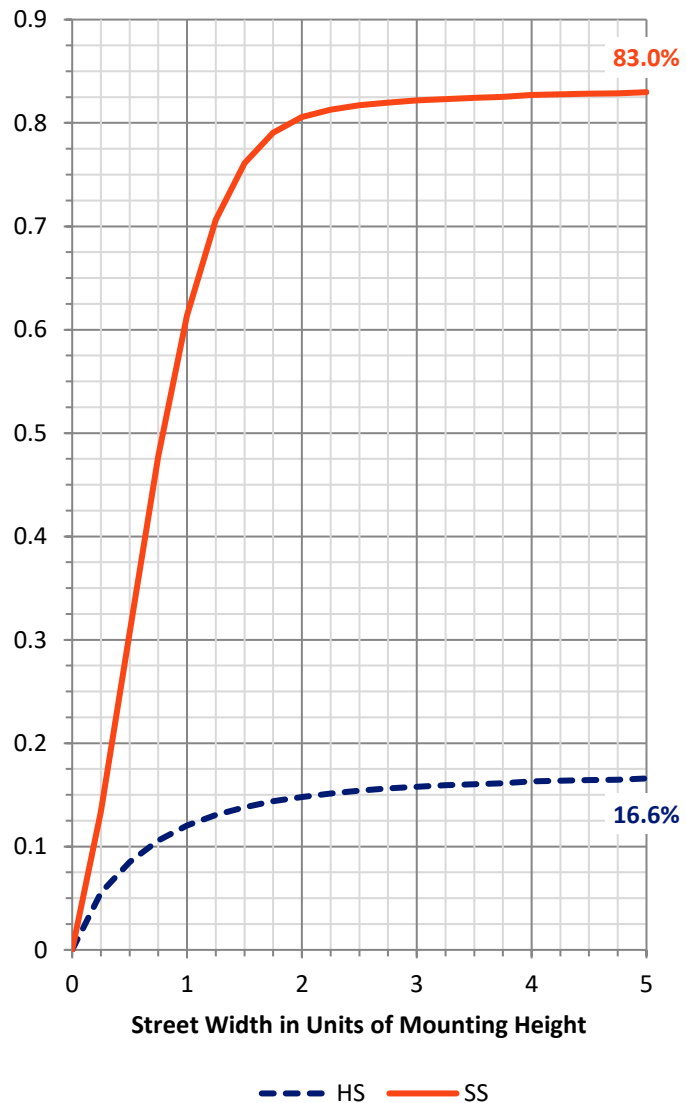
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2130.2	0.0	2130.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10540.8	0.0	10540.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	12671.0	0.0	12671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.1
10°-20°	560.3	4.4
20°-30°	1082.2	8.5
30°-40°	1757.9	13.9
40°-50°	2418.1	19.1
50°-60°	2855.0	22.5
60°-70°	2501.4	19.7
70°-80°	1194.2	9.4
80°-90°	158.9	1.3
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°	12671.0	100.0
0°-180°	12671.0	100.0



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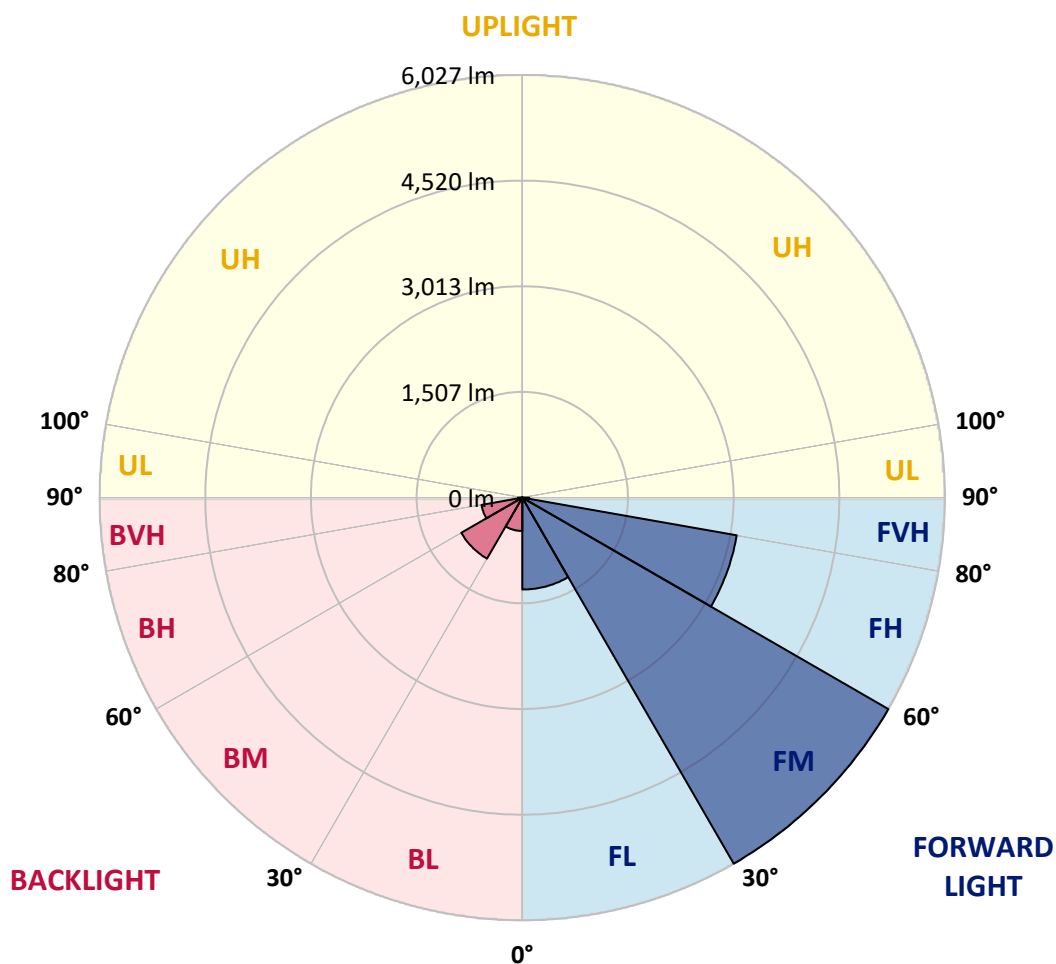
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.0	10.3			
FM (30°-60°)	6026.6	47.6			
FH (60°-80°)	3105.0	24.5			G2/5000
FVH (80°-90°)	99.3	0.8			G1/100
BL (0°-30°)	475.5	3.8	B1/500		
BM (30°-60°)	1004.4	7.9	B2/2500		
BH (60°-80°)	590.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.5			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°	65°	75°	76°	85°
0°	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3
2.5°	1564.2	1553.9	1542.9	1512.7	1480.4	1444.0	1391.7	1341.6	1274.9	1272.8	1223.3
5°	1997.9	1991.0	1942.2	1914.1	1839.1	1739.5	1654.9	1523.7	1402.0	1387.6	1291.4
7.5°	2396.5	2369.7	2351.2	2300.3	2226.1	2098.2	1934.7	1757.4	1553.9	1534.7	1375.2
10°	2696.9	2694.1	2684.5	2640.5	2584.8	2457.7	2276.2	2022.0	1746.4	1708.6	1476.9
12.5°	2921.6	2923.7	2922.3	2921.6	2881.7	2773.8	2577.3	2309.2	1940.9	1914.1	1594.5
15°	3069.4	3090.0	3098.2	3132.6	3136.0	3063.9	2894.8	2586.9	2160.1	2120.2	1720.9
17.5°	3166.9	3177.3	3215.7	3274.2	3321.6	3308.5	3158.0	2843.9	2384.1	2317.5	1852.2
20°	3260.4	3278.3	3307.8	3387.6	3471.4	3509.9	3404.1	3107.2	2606.1	2563.5	1997.2
22.5°	3454.9	3480.3	3490.7	3531.2	3602.7	3670.7	3622.6	3359.4	2849.4	2791.7	2151.2
25°	3784.1	3810.9	3782.1	3772.4	3795.8	3829.5	3819.2	3597.2	3079.0	2996.5	2296.9
27.5°	4213.0	4216.4	4160.1	4106.4	4048.7	4031.5	3999.9	3808.2	3278.3	3209.6	2443.2
30°	4673.4	4657.0	4563.5	4466.6	4369.0	4272.8	4182.0	4011.6	3500.3	3421.2	2586.9
32.5°	5100.9	5092.0	4988.2	4837.7	4672.8	4582.0	4398.5	4217.1	3738.1	3661.8	2734.7
35°	5421.2	5434.3	5320.2	5155.9	4975.8	4895.4	4663.8	4432.9	3984.1	3901.0	2895.5
37.5°	5648.7	5641.8	5540.8	5398.5	5240.4	5170.3	4973.8	4668.6	4248.7	4169.0	3071.4
40°	5729.8	5725.7	5650.7	5547.0	5446.6	5421.9	5298.2	4922.9	4551.8	4458.3	3283.1
42.5°	5678.2	5687.2	5637.7	5609.5	5591.0	5608.8	5620.5	5256.3	4882.4	4796.5	3512.6
45°	5520.2	5515.4	5508.5	5554.5	5659.0	5776.5	5939.4	5571.0	5241.8	5173.1	3820.5
47.5°	5237.7	5272.1	5289.2	5416.4	5644.6	5922.9	6306.4	5993.0	5763.5	5703.7	4289.9
50°	4842.5	4870.0	4971.7	5197.8	5538.0	5977.9	6665.2	6683.0	6633.5	6521.5	4799.9
52.5°	4225.3	4268.0	4477.6	4892.0	5319.5	5955.2	6882.3	7274.8	7340.1	7256.2	5302.3
55°	3534.6	3594.4	3815.7	4359.4	5018.5	5831.5	7032.2	7617.7	7878.2	7800.5	5786.1
57.5°	2858.4	2921.6	3149.1	3675.5	4493.4	5558.0	7130.4	7999.8	8610.8	8509.8	6388.2
60°	2142.2	2208.2	2403.4	2945.6	3745.6	5023.3	7063.8	8331.1	9342.8	9299.5	6990.9
62.5°	1382.1	1455.0	1624.7	2073.5	2879.0	4292.7	6707.1	8513.9	9976.4	9924.2	7430.8
65°	841.9	850.2	943.6	1287.3	1970.4	3323.6	5891.3	8271.3	10310.4	10294.6	7564.8
67.5°	544.3	557.4	600.0	771.1	1181.4	2308.5	4710.6	7470.6	10115.3	10109.8	7287.8
70°	459.8	463.9	483.2	520.3	686.6	1400.0	3307.8	6194.4	9373.7	9373.7	6621.9
72.5°	411.0	416.5	423.4	435.0	490.0	793.1	1973.8	4821.9	8093.3	8146.9	5636.3
75°	373.2	371.8	375.9	378.0	417.9	518.2	1020.6	3566.3	6261.0	6153.8	4081.7
77.5°	319.6	321.6	319.6	328.5	369.1	394.5	518.2	2393.1	3794.4	3655.6	2048.8
80°	262.5	266.0	269.4	274.9	315.5	299.7	311.3	1090.7	1403.4	1373.9	633.0
82.5°	197.2	202.1	207.6	220.6	248.1	197.9	196.6	466.0	506.5	463.9	233.0
85°	79.7	94.2	142.3	155.3	156.0	108.6	121.0	194.5	206.9	202.1	91.4
87.5°	18.6	22.0	46.0	69.4	63.9	40.5	44.7	63.2	72.2	66.7	30.9
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°	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3	1177.3
2.5°	1200.7	1176.6	1135.4	1103.8	1081.1	1061.1	1048.8	1041.2	1038.5	1037.8	1038.5
5°	1241.2	1198.6	1133.3	1092.1	1069.4	1056.3	1048.8	1048.1	1048.8	1049.5	1047.4
7.5°	1296.9	1235.7	1150.5	1112.0	1094.8	1085.2	1081.8	1080.4	1081.1	1080.4	1080.4
10°	1371.1	1287.3	1184.2	1144.3	1129.9	1118.9	1113.4	1109.9	1107.2	1104.4	1103.1
12.5°	1452.9	1344.3	1220.6	1182.1	1161.5	1144.3	1131.9	1123.0	1116.8	1110.6	1109.3
15°	1544.3	1404.8	1261.1	1207.5	1178.0	1152.6	1131.2	1116.8	1105.8	1096.9	1096.2
17.5°	1631.6	1461.8	1288.6	1219.2	1175.9	1140.2	1112.0	1092.1	1078.3	1066.6	1065.3
20°	1725.1	1516.1	1301.0	1211.7	1155.3	1112.0	1074.9	1050.8	1035.0	1022.0	1019.9
22.5°	1819.2	1562.2	1299.6	1187.6	1119.6	1068.7	1029.5	1004.1	985.5	972.5	967.7
25°	1909.2	1599.3	1282.4	1149.1	1070.1	1017.2	977.3	953.9	937.4	921.6	921.6
27.5°	1990.3	1621.3	1250.1	1102.4	1019.2	963.6	931.9	910.6	895.5	885.2	879.0
30°	2070.1	1631.6	1206.2	1043.3	965.6	918.2	892.8	880.4	866.6	855.0	853.6
32.5°	2141.5	1629.5	1151.2	985.5	914.8	881.1	870.8	861.2	846.7	830.2	826.1
35°	2211.0	1615.8	1085.9	922.3	872.1	859.1	861.8	848.1	822.0	801.4	797.9
37.5°	2286.6	1591.0	1014.4	870.8	836.4	848.8	855.7	825.4	782.8	750.5	742.9
40°	2373.8	1562.9	940.2	819.2	808.2	839.2	839.2	783.5	725.1	705.1	699.6
42.5°	2476.2	1539.5	878.3	775.9	784.9	815.8	812.4	727.8	703.8	693.5	690.7
45°	2638.4	1531.2	814.4	738.1	765.6	788.3	760.1	708.6	694.8	686.6	683.8
47.5°	2894.8	1540.9	758.1	710.0	743.6	760.8	701.7	695.5	685.9	674.2	672.8
50°	3132.6	1531.9	718.2	694.1	724.4	727.8	677.6	679.7	674.2	661.2	658.4
52.5°	3327.1	1503.7	692.8	685.9	707.9	670.1	655.0	662.5	660.5	644.0	641.2
55°	3540.8	1486.6	680.4	685.9	696.9	619.9	633.7	644.7	641.9	630.2	629.5
57.5°	3799.9	1490.0	671.5	688.0	685.9	594.5	612.4	625.4	624.7	621.3	621.3
60°	4065.2	1491.4	657.7	687.3	672.8	574.6	590.4	608.9	610.3	612.4	612.4
62.5°	4153.2	1431.6	630.9	674.9	644.0	555.3	569.7	595.2	593.8	599.3	600.0
65°	3988.9	1266.0	591.1	646.7	606.9	541.6	553.9	577.3	569.7	584.2	586.9
67.5°	3630.9	1047.4	529.2	595.9	565.6	527.1	543.6	552.6	538.8	567.0	567.7
70°	3138.1	817.9	450.9	523.7	518.9	512.0	535.4	521.6	502.4	536.8	529.9
72.5°	2624.0	624.7	360.1	428.2	456.3	489.3	521.0	481.8	455.0	465.3	452.9
75°	1971.1	461.8	289.3	335.4	380.1	457.0	507.9	433.7	392.4	382.8	380.1
77.5°	1004.8	301.7	216.5	250.9	285.2	413.1	490.0	377.3	325.1	310.0	303.1
80°	358.8	187.6	152.6	173.2	192.4	355.3	428.2	312.0	252.2	249.5	252.2
82.5°	166.3	121.0	102.4	113.4	114.1	237.1	326.5	233.0	191.7	291.4	246.0
85°	71.5	60.5	57.7	56.4	52.2	105.8	183.5	125.1	195.2	87.3	80.4
87.5°	21.3	24.1	21.3	15.8	11.7	11.7	18.6	6.9	4.8	3.4	3.4
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)