

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: P458794

Luminaire Tested: **GALN-SA3B-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458794
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-SA3B-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16126 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

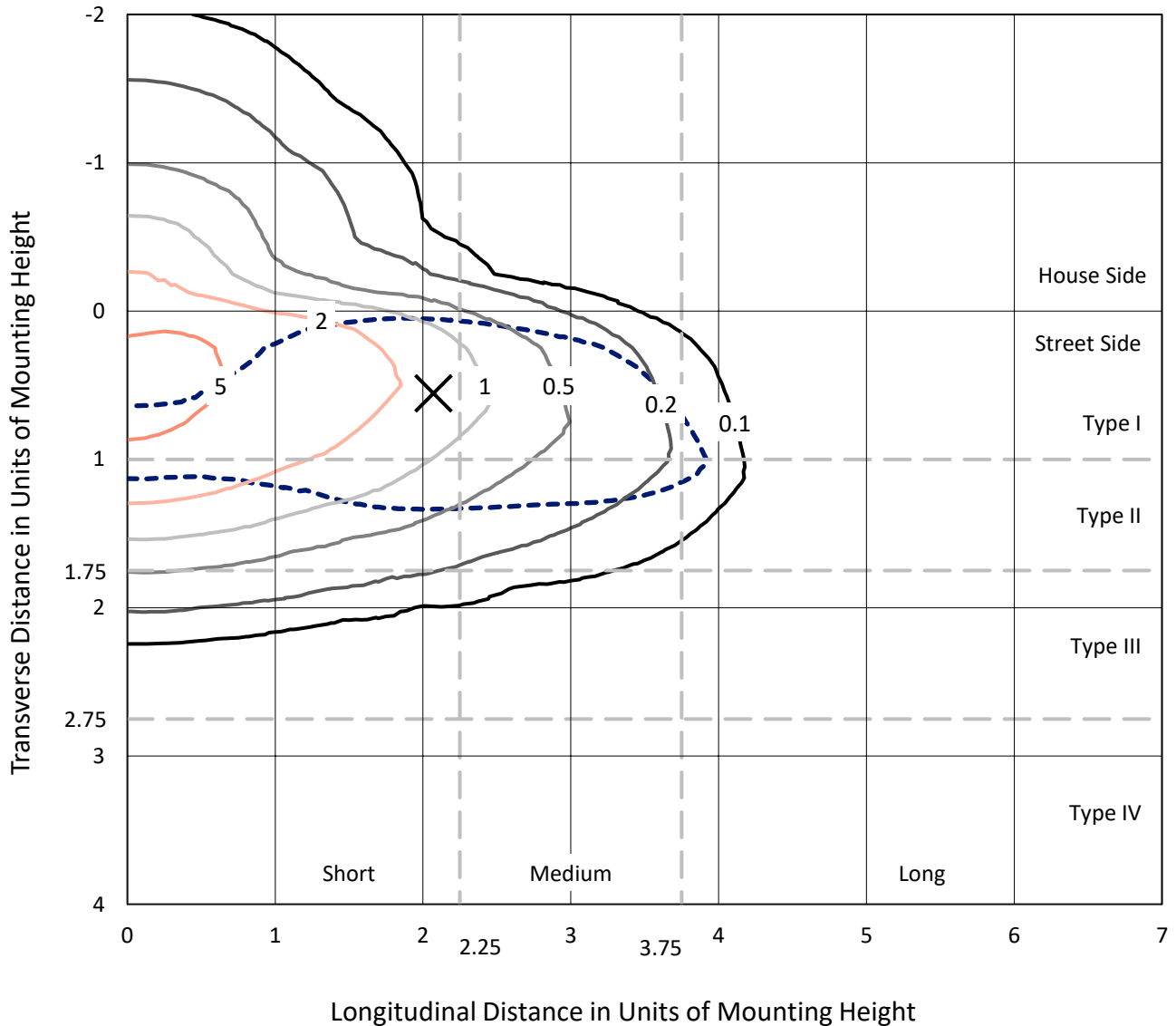
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458794
 CATALOG NUMBER: GALN-SA3B-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

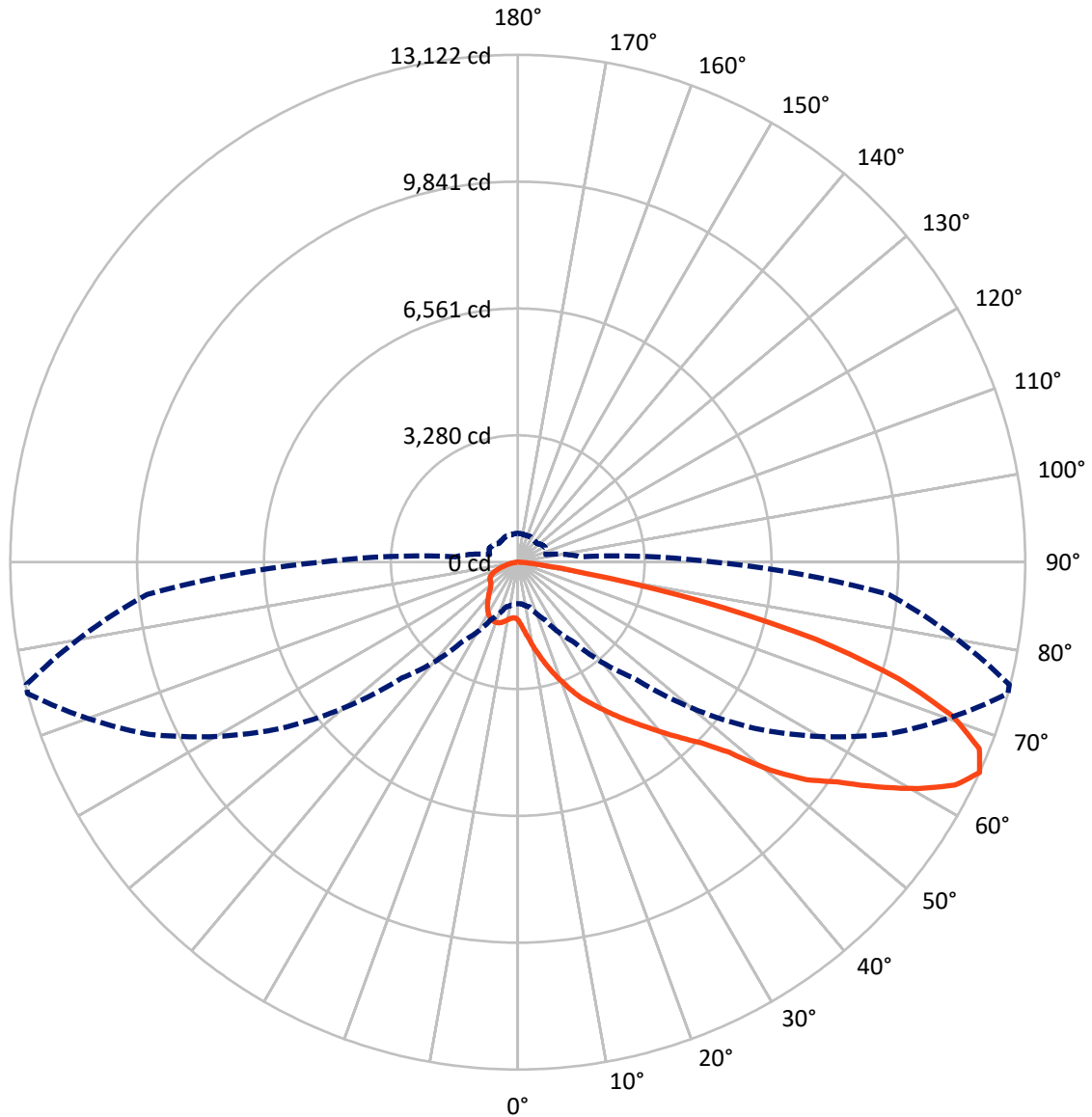
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

REPORT NUMBER: P458794
CATALOG NUMBER: GALN-SA3B-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458794

CATALOG NUMBER: GALN-SA3B-735-U-T2R

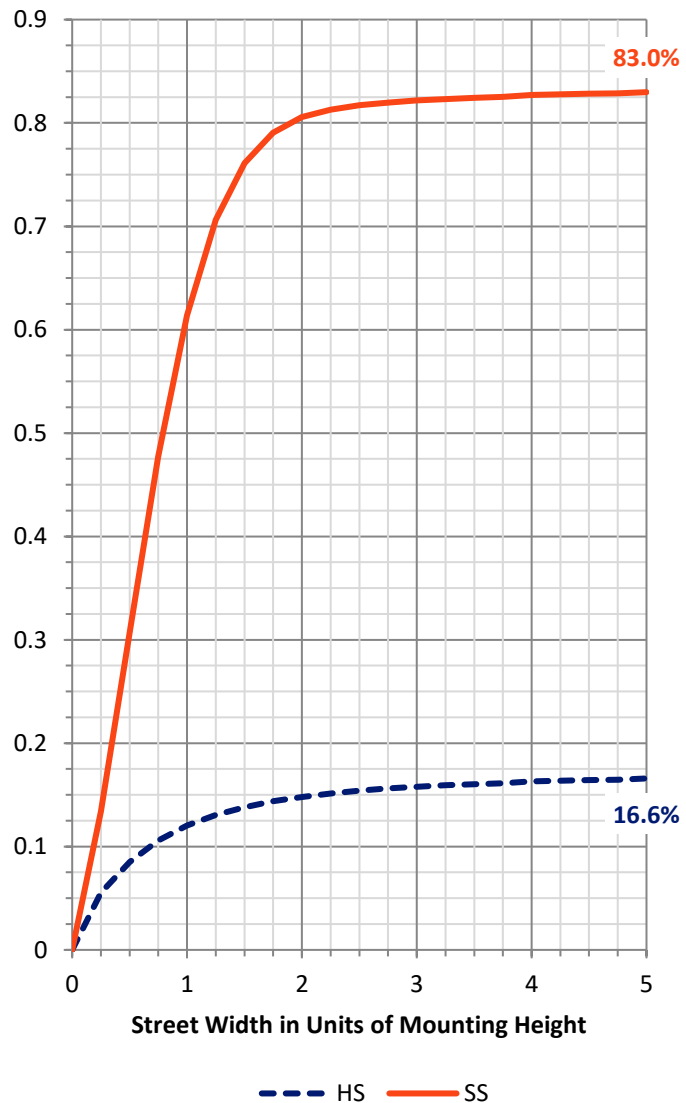
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2711.0	0.0	2711.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13415.0	0.0	13415.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	16126.0	0.0	16126.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	1.1
10°-20°	713.0	4.4
20°-30°	1377.3	8.5
30°-40°	2237.2	13.9
40°-50°	3077.5	19.1
50°-60°	3633.4	22.5
60°-70°	3183.5	19.7
70°-80°	1519.8	9.4
80°-90°	202.2	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°	16126.0	100.0
0°-180°	16126.0	100.0



REPORT NUMBER: P458794

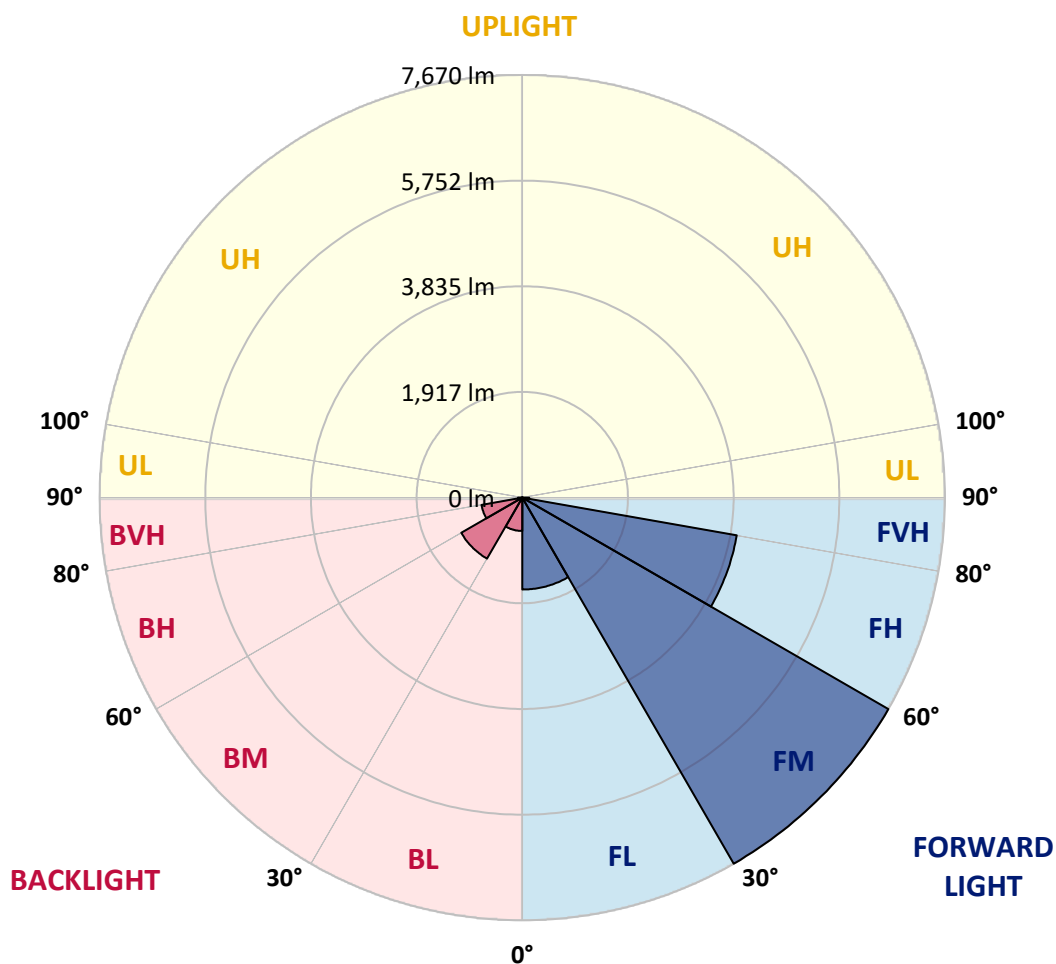
CATALOG NUMBER: GALN-SA3B-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.2	10.3			
FM (30°-60°)	7669.9	47.6			
FH (60°-80°)	3951.6	24.5			G2/5000
FVH (80°-90°)	126.4	0.8			G2/225
BL (0°-30°)	605.2	3.8	B2/1000		
BM (30°-60°)	1278.2	7.9	B2/2500		
BH (60°-80°)	751.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	75.8	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





REPORT NUMBER: P458794

CATALOG NUMBER: GALN-SA3B-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1990.7	1977.6	1963.6	1925.1	1884.0	1837.7	1771.2	1707.4	1622.5	1619.9	1556.9
5°	2542.7	2533.9	2471.8	2436.0	2340.6	2213.8	2106.2	1939.1	1784.3	1766.0	1643.5
7.5°	3050.0	3015.9	2992.2	2927.5	2833.1	2670.4	2462.2	2236.5	1977.6	1953.1	1750.2
10°	3432.2	3428.7	3416.5	3360.5	3289.6	3127.8	2896.9	2573.3	2222.5	2174.4	1879.7
12.5°	3718.2	3720.8	3719.1	3718.2	3667.5	3530.2	3280.0	2938.9	2470.1	2436.0	2029.2
15°	3906.3	3932.5	3943.0	3986.7	3991.1	3899.3	3684.1	3292.3	2749.1	2698.4	2190.2
17.5°	4030.5	4043.6	4092.6	4166.9	4227.3	4210.7	4019.1	3619.4	3034.2	2949.4	2357.2
20°	4149.4	4172.2	4209.8	4311.2	4418.0	4466.9	4332.2	3954.4	3316.7	3262.5	2541.8
22.5°	4397.0	4429.3	4442.4	4494.1	4585.0	4671.6	4610.4	4275.4	3626.4	3552.9	2737.7
25°	4815.9	4850.0	4813.3	4801.1	4830.8	4873.7	4860.5	4578.0	3918.5	3813.6	2923.1
27.5°	5361.7	5366.1	5294.4	5226.2	5152.7	5130.8	5090.6	4846.5	4172.2	4084.7	3109.5
30°	5947.8	5926.8	5807.8	5684.5	5560.3	5437.8	5322.4	5105.4	4454.7	4354.1	3292.3
32.5°	6491.8	6480.4	6348.4	6156.8	5946.9	5831.4	5597.9	5367.0	4757.3	4660.2	3480.3
35°	6899.4	6916.0	6770.8	6561.8	6332.6	6230.3	5935.5	5641.6	5070.5	4964.6	3685.0
37.5°	7188.9	7180.2	7051.6	6870.5	6669.4	6580.1	6330.0	5941.6	5407.2	5305.7	3908.9
40°	7292.1	7286.9	7191.5	7059.5	6931.8	6900.3	6742.8	6265.3	5792.9	5674.0	4178.3
42.5°	7226.5	7237.9	7174.9	7139.1	7115.4	7138.2	7153.0	6689.5	6213.7	6104.3	4470.4
45°	7025.3	7019.2	7010.5	7069.1	7202.0	7351.6	7558.9	7090.1	6671.1	6583.6	4862.3
47.5°	6665.9	6709.6	6731.5	6893.3	7183.7	7537.9	8026.0	7627.1	7335.0	7258.9	5459.7
50°	6162.9	6197.9	6327.4	6615.1	7048.1	7607.9	8482.5	8505.3	8442.3	8299.7	6108.7
52.5°	5377.5	5431.7	5698.5	6225.9	6769.9	7579.0	8758.9	9258.4	9341.5	9234.8	6748.1
55°	4498.4	4574.5	4856.2	5548.0	6386.8	7421.6	8949.6	9694.8	10026.3	9927.5	7363.8
57.5°	3637.8	3718.2	4007.7	4677.7	5718.6	7073.5	9074.7	10181.2	10958.7	10830.2	8130.1
60°	2726.3	2810.3	3058.7	3748.8	4766.9	6393.0	8989.9	10602.7	11890.3	11835.2	8897.1
62.5°	1759.0	1851.7	2067.7	2638.9	3664.0	5463.2	8535.9	10835.4	12696.7	12630.2	9456.9
65°	1071.5	1082.0	1200.9	1638.3	2507.7	4229.9	7497.7	10526.6	13121.8	13101.7	9627.5
67.5°	692.7	709.4	763.6	981.4	1503.6	2938.0	5995.0	9507.7	12873.4	12866.4	9275.0
70°	585.2	590.4	614.9	662.1	873.8	1781.7	4209.8	7883.4	11929.6	11929.6	8427.4
72.5°	523.1	530.0	538.8	553.7	623.6	1009.4	2512.1	6136.7	10300.1	10368.3	7173.2
75°	474.9	473.2	478.4	481.1	531.8	659.5	1298.9	4538.7	7968.2	7831.8	5194.7
77.5°	406.7	409.3	406.7	418.1	469.7	502.1	659.5	3045.6	4829.1	4652.4	2607.4
80°	334.1	338.5	342.9	349.9	401.5	381.4	396.2	1388.1	1786.1	1748.5	805.6
82.5°	251.0	257.2	264.2	280.8	315.8	251.9	250.2	593.0	644.6	590.4	296.5
85°	101.5	119.8	181.1	197.7	198.6	138.2	153.9	247.5	263.3	257.2	116.3
87.5°	23.6	28.0	58.6	88.3	81.3	51.6	56.9	80.5	91.8	84.8	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458794
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1528.0	1497.4	1445.0	1404.7	1375.9	1350.5	1334.7	1325.1	1321.6	1320.8	1321.6
5°	1579.7	1525.4	1442.3	1389.9	1361.0	1344.4	1334.7	1333.9	1334.7	1335.6	1333.0
7.5°	1650.5	1572.7	1464.2	1415.2	1393.3	1381.1	1376.7	1375.0	1375.9	1375.0	1375.0
10°	1745.0	1638.3	1507.1	1456.3	1438.0	1424.0	1417.0	1412.6	1409.1	1405.6	1403.8
12.5°	1849.1	1710.9	1553.4	1504.4	1478.2	1456.3	1440.6	1429.2	1421.3	1413.5	1411.7
15°	1965.4	1787.8	1605.0	1536.8	1499.2	1466.8	1439.7	1421.3	1407.3	1396.0	1395.1
17.5°	2076.5	1860.4	1640.0	1551.7	1496.6	1451.1	1415.2	1389.9	1372.4	1357.5	1355.7
20°	2195.4	1929.5	1655.7	1542.0	1470.3	1415.2	1368.0	1337.4	1317.3	1300.6	1298.0
22.5°	2315.3	1988.1	1654.0	1511.4	1424.8	1360.1	1310.3	1277.9	1254.3	1237.7	1231.5
25°	2429.8	2035.4	1632.1	1462.4	1361.9	1294.5	1243.8	1214.0	1193.0	1172.9	1172.9
27.5°	2533.0	2063.3	1591.0	1403.0	1297.1	1226.3	1186.1	1158.9	1139.7	1126.6	1118.7
30°	2634.5	2076.5	1535.0	1327.7	1228.9	1168.6	1136.2	1120.5	1103.0	1088.1	1086.3
32.5°	2725.5	2073.8	1465.1	1254.3	1164.2	1121.3	1108.2	1096.0	1077.6	1056.6	1051.4
35°	2813.8	2056.3	1382.0	1173.8	1110.0	1093.3	1096.8	1079.3	1046.1	1019.9	1015.5
37.5°	2910.0	2024.9	1291.0	1108.2	1064.5	1080.2	1089.0	1050.5	996.2	955.1	945.5
40°	3021.1	1989.0	1196.5	1042.6	1028.6	1068.0	1068.0	997.1	922.8	897.4	890.4
42.5°	3151.4	1959.3	1117.8	987.5	998.9	1038.2	1033.9	926.3	895.7	882.5	879.0
45°	3357.9	1948.8	1036.5	939.4	974.4	1003.2	967.4	901.8	884.3	873.8	870.3
47.5°	3684.1	1961.0	964.8	903.5	946.4	968.3	893.0	885.2	872.9	858.1	856.3
50°	3986.7	1949.6	914.0	883.4	921.9	926.3	862.4	865.0	858.1	841.4	837.9
52.5°	4234.3	1913.8	881.7	872.9	900.9	852.8	833.6	843.2	840.6	819.6	816.1
55°	4506.3	1891.9	865.9	872.9	886.9	789.0	806.4	820.4	816.9	802.1	801.2
57.5°	4836.0	1896.3	854.6	875.5	872.9	756.6	779.3	795.9	795.1	790.7	790.7
60°	5173.7	1898.0	837.1	874.7	856.3	731.2	751.3	775.0	776.7	779.3	779.3
62.5°	5285.6	1821.9	802.9	858.9	819.6	706.7	725.1	757.5	755.7	762.7	763.6
65°	5076.6	1611.1	752.2	823.1	772.3	689.2	705.0	734.7	725.1	743.5	747.0
67.5°	4620.9	1333.0	673.5	758.3	719.9	670.9	691.9	703.2	685.7	721.6	722.5
70°	3993.7	1040.9	573.8	666.5	660.4	651.6	681.4	663.9	639.4	683.1	674.4
72.5°	3339.5	795.1	458.3	544.9	580.8	622.8	663.0	613.1	579.0	592.2	576.4
75°	2508.6	587.8	368.2	426.8	483.7	581.7	646.4	551.9	499.4	487.2	483.7
77.5°	1278.8	384.0	275.5	319.3	363.0	525.7	623.6	480.2	413.7	394.5	385.7
80°	456.6	238.8	194.2	220.4	244.9	452.2	544.9	397.1	321.0	317.5	321.0
82.5°	211.7	153.9	130.3	144.3	145.2	301.8	415.5	296.5	244.0	370.9	313.1
85°	91.0	77.0	73.5	71.7	66.5	134.7	233.5	159.2	248.4	111.1	102.3
87.5°	27.1	30.6	27.1	20.1	14.9	14.9	23.6	8.7	6.1	4.4	4.4
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)