

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: P528346

Luminaire Tested: **GALN-SA3B-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11861 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 121
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



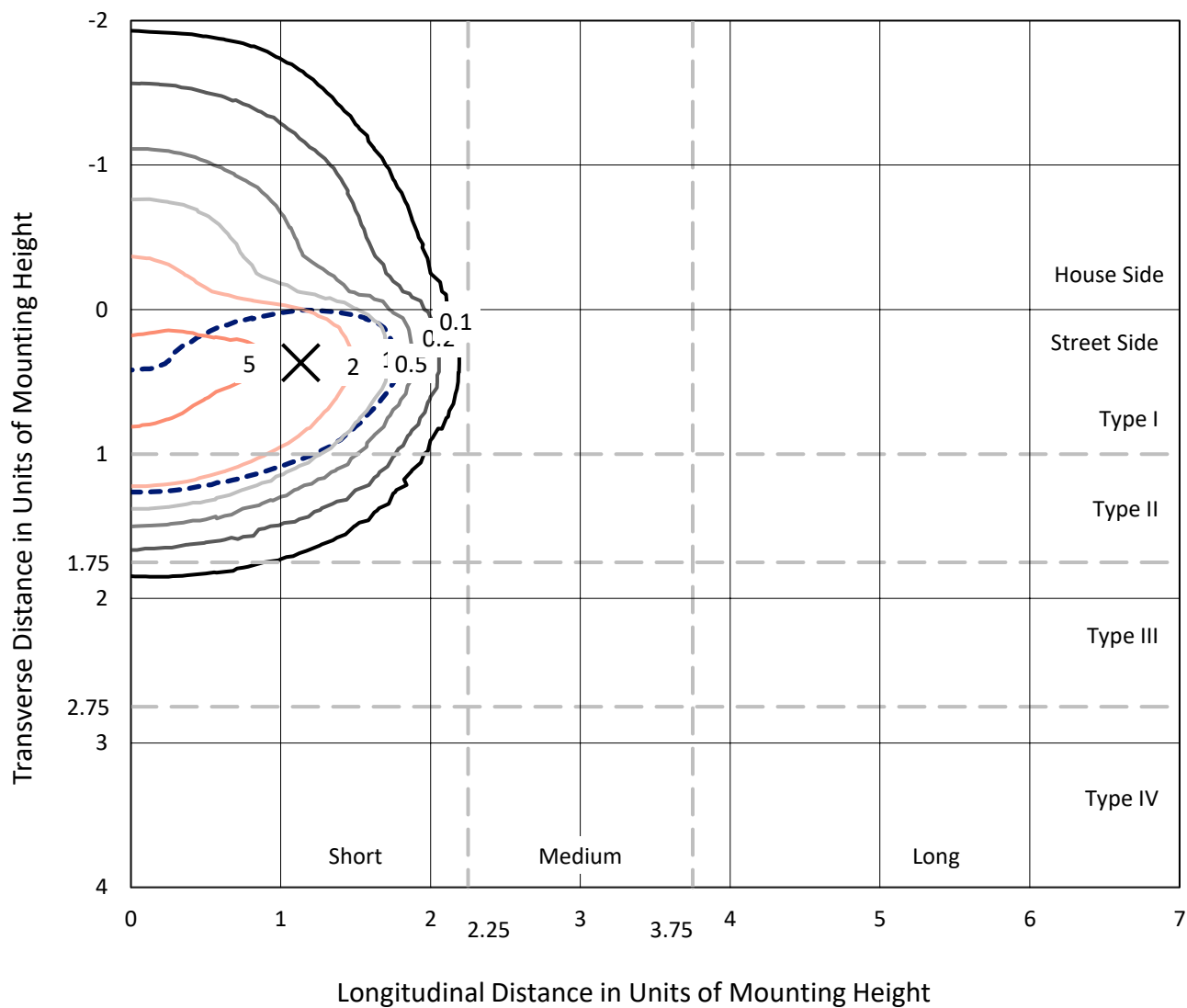
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

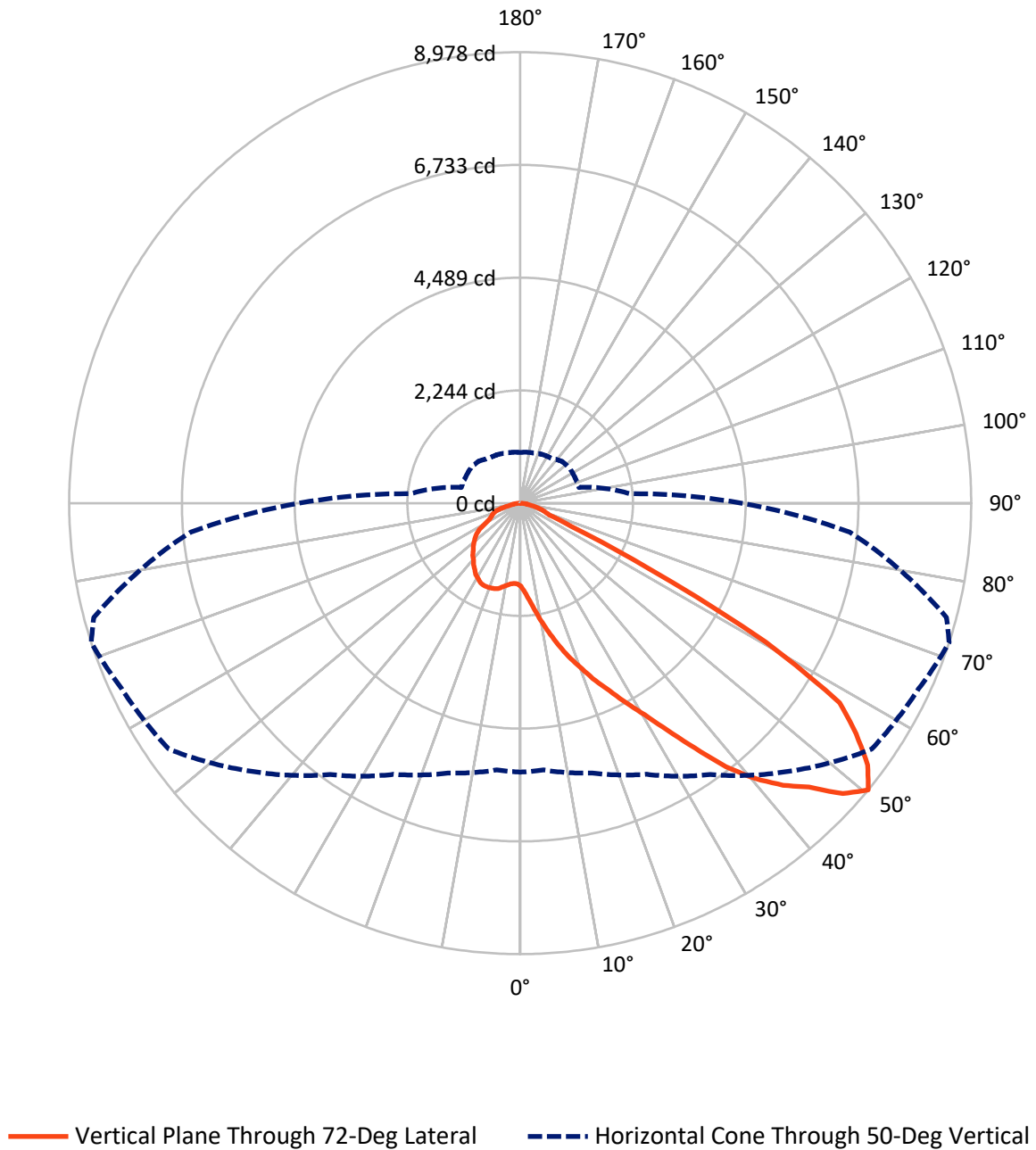


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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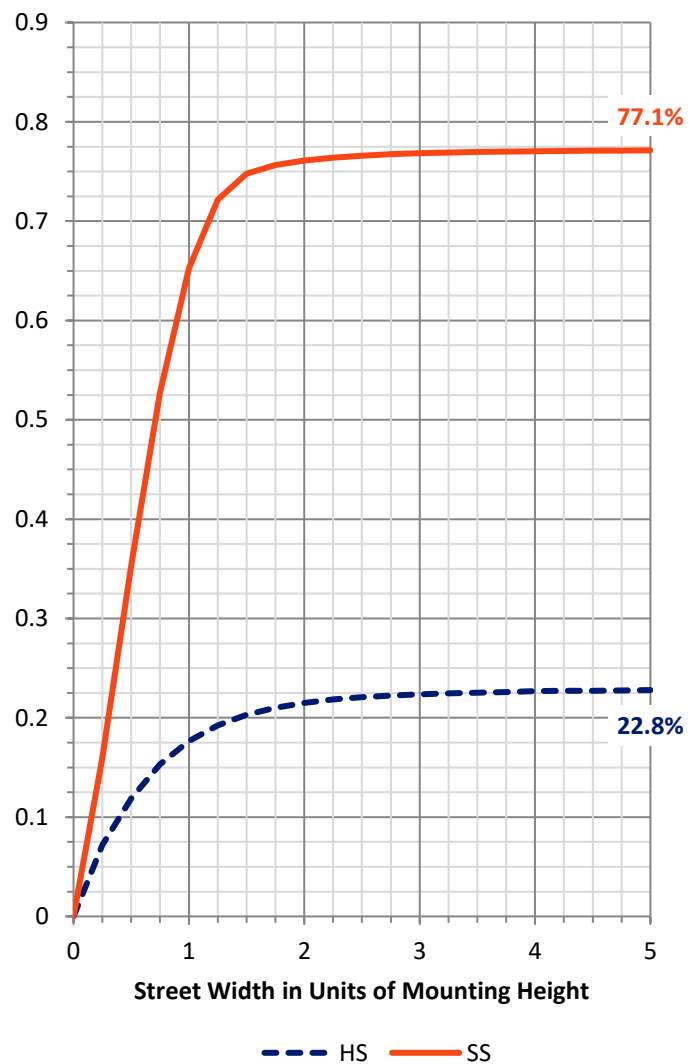
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2717.4	0.0	2717.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9143.6	0.0	9143.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	11861.0	0.0	11861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	1.6
10°-20°	726.1	6.1
20°-30°	1407.8	11.9
30°-40°	2332.2	19.7
40°-50°	3263.2	27.5
50°-60°	2752.9	23.2
60°-70°	839.1	7.1
70°-80°	294.4	2.5
80°-90°	51.2	0.4
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°	11861.0	100.0
0°-180°	11861.0	100.0

Coefficient of Utilization



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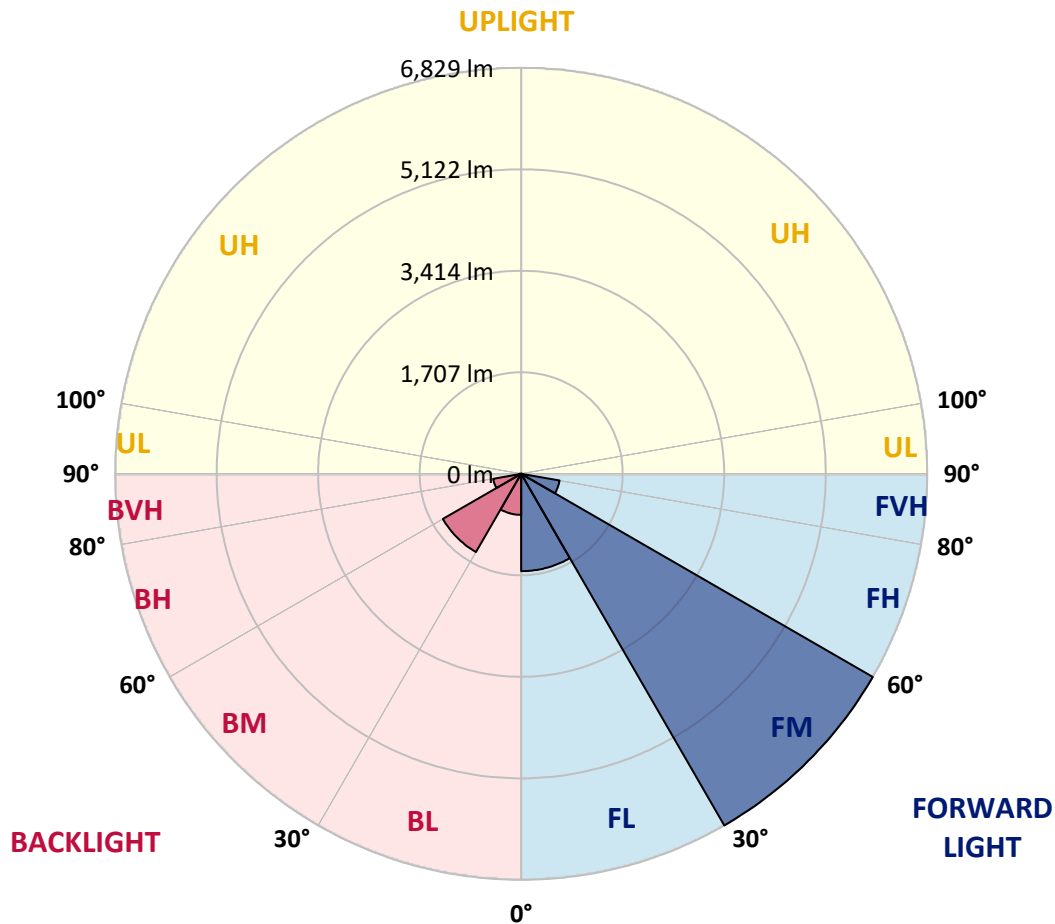
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.2	13.8			
FM	(30°-60°)	6828.7	57.6			
FH	(60°-80°)	654.7	5.5			G0/660
FVH	(80°-90°)	22.9	0.2			G1/100
BL	(0°-30°)	690.8	5.8	B2/1000		
BM	(30°-60°)	1519.6	12.8	B2/2500		
BH	(60°-80°)	478.8	4.0	B1/500		G1/500
BVH	(80°-90°)	28.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2
2.5°	2123.7	2110.5	2070.9	2057.7	2010.7	1925.6	1896.3	1809.7	1773.0	1739.2	1699.6
5°	2685.9	2624.2	2619.8	2545.0	2436.4	2373.3	2185.4	2059.2	1943.2	1884.5	1775.9
7.5°	3044.0	3045.5	3045.5	2983.8	2897.2	2737.2	2568.5	2341.0	2166.3	2079.7	1894.8
10°	3384.5	3355.1	3339.0	3333.1	3274.4	3118.8	2938.3	2656.5	2417.3	2316.0	1984.3
12.5°	3625.2	3600.2	3636.9	3617.9	3575.3	3474.0	3303.8	2982.3	2682.9	2546.4	2128.2
15°	3739.7	3757.3	3786.6	3839.5	3820.4	3782.2	3594.4	3317.0	2969.1	2815.0	2255.8
17.5°	3915.8	3867.4	3902.6	3968.6	4021.5	4003.9	3896.7	3559.2	3252.4	3063.1	2427.6
20°	4039.1	4011.2	4028.8	4105.1	4144.8	4244.6	4188.8	3876.2	3523.9	3324.3	2630.1
22.5°	4391.3	4350.2	4293.0	4304.7	4319.4	4389.9	4403.1	4224.0	3839.5	3628.1	2822.4
25°	4825.8	4787.6	4720.1	4651.1	4608.5	4595.3	4640.8	4497.0	4141.8	3923.1	3029.3
27.5°	5304.2	5239.7	5197.1	5054.7	4940.2	4922.6	4900.6	4822.8	4499.9	4263.6	3262.7
30°	5769.5	5718.1	5660.9	5433.4	5314.5	5295.4	5186.8	5208.8	4888.9	4626.2	3526.9
32.5°	6121.7	6126.1	5995.5	5823.8	5712.3	5611.0	5571.4	5634.5	5387.9	5176.5	3821.9
35°	6406.5	6419.7	6294.9	6139.4	6019.0	6089.4	6071.8	6101.2	5983.8	5725.5	4165.3
37.5°	6683.9	6617.8	6484.3	6409.4	6346.3	6462.2	6611.9	6636.9	6658.9	6355.1	4564.5
40°	6729.4	6735.2	6657.4	6710.3	6631.0	6805.7	7153.5	7121.2	7210.8	6945.1	4997.5
42.5°	6664.8	6678.0	6708.8	6783.7	6974.5	7184.3	7701.0	7568.9	7677.5	7441.2	5418.7
45°	6559.1	6504.8	6543.0	6827.7	7157.9	7624.7	8201.5	8098.7	8063.5	7865.4	5920.7
47.5°	6054.2	6110.0	6228.9	6579.7	7075.7	7701.0	8556.6	8533.2	8638.8	8499.4	6377.1
50°	5354.1	5332.1	5561.1	5955.9	6595.8	7551.3	8537.6	8750.4	8977.9	8784.1	6581.1
52.5°	4009.7	4127.1	4323.8	4814.0	5726.9	6735.2	8120.7	8475.9	8660.8	8619.7	6416.7
55°	2534.7	2569.9	2688.8	3271.5	4093.4	5405.5	6961.3	7784.6	8114.9	8269.0	6265.6
57.5°	1231.4	1165.3	1310.6	1778.8	2364.5	3635.5	5368.8	6780.7	7498.4	7777.3	5936.8
60°	642.8	667.8	725.0	892.4	1222.6	1887.5	3346.3	4519.0	5615.4	6044.0	4499.9
62.5°	532.8	541.6	579.7	663.4	813.1	1086.1	1708.4	2203.0	2863.5	3249.5	2559.7
65°	452.0	456.5	497.5	553.3	648.7	764.7	879.1	920.2	1114.0	1143.3	910.0
67.5°	377.2	381.6	425.6	478.5	540.1	570.9	600.3	597.4	619.4	610.6	609.1
70°	290.6	295.0	340.5	396.3	427.1	409.5	500.5	521.0	529.8	537.2	548.9
72.5°	209.9	218.7	253.9	293.5	277.4	318.5	412.4	443.2	455.0	459.4	474.1
75°	152.6	155.6	164.4	152.6	176.1	221.6	290.6	328.8	343.4	347.8	369.9
77.5°	67.5	69.0	70.4	88.1	113.0	138.0	173.2	204.0	224.6	230.4	236.3
80°	35.2	36.7	45.5	60.2	80.7	101.3	126.2	143.8	157.0	158.5	164.4
82.5°	22.0	23.5	32.3	42.6	57.2	74.9	92.5	107.1	117.4	118.9	120.4
85°	10.3	13.2	19.1	26.4	38.2	48.4	49.9	42.6	45.5	47.0	44.0
87.5°	2.9	4.4	5.9	4.4	5.9	5.9	7.3	8.8	8.8	8.8	10.3
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°	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2	1651.2
2.5°	1677.6	1664.4	1613.0	1593.9	1544.0	1552.8	1526.4	1524.9	1519.1	1517.6	1516.1
5°	1718.7	1677.6	1615.9	1569.0	1541.1	1538.1	1519.1	1519.1	1524.9	1529.3	1519.1
7.5°	1786.2	1739.2	1635.0	1591.0	1566.0	1561.6	1548.4	1538.1	1551.3	1546.9	1535.2
10°	1864.0	1781.8	1671.7	1633.5	1592.4	1582.2	1582.2	1586.6	1564.6	1571.9	1560.2
12.5°	1950.6	1840.5	1718.7	1674.6	1626.2	1620.3	1617.4	1585.1	1596.8	1591.0	1561.6
15°	2060.6	1908.0	1778.8	1704.0	1662.9	1636.5	1598.3	1592.4	1585.1	1570.4	1557.2
17.5°	2179.5	1981.4	1806.7	1712.8	1651.2	1632.1	1602.7	1571.9	1549.9	1552.8	1542.5
20°	2280.8	2048.9	1817.0	1721.6	1642.3	1605.7	1560.2	1541.1	1517.6	1516.1	1514.7
22.5°	2401.1	2139.9	1831.7	1698.1	1615.9	1577.8	1546.9	1513.2	1497.0	1476.5	1486.8
25°	2545.0	2175.1	1834.6	1684.9	1596.8	1529.3	1513.2	1476.5	1470.6	1441.3	1447.1
27.5°	2649.2	2194.2	1811.1	1643.8	1552.8	1501.4	1472.1	1445.7	1435.4	1413.4	1407.5
30°	2788.6	2223.6	1761.2	1592.4	1508.8	1451.5	1433.9	1428.1	1398.7	1375.2	1372.3
32.5°	2947.1	2242.6	1728.9	1539.6	1463.3	1419.3	1428.1	1400.2	1363.5	1342.9	1337.1
35°	3073.3	2250.0	1648.2	1479.4	1432.5	1404.6	1394.3	1388.4	1335.6	1316.5	1301.8
37.5°	3265.6	2233.8	1580.7	1436.9	1398.7	1388.4	1379.6	1340.0	1279.8	1251.9	1231.4
40°	3490.2	2229.4	1494.1	1376.7	1366.4	1378.2	1351.7	1290.1	1206.4	1175.6	1160.9
42.5°	3705.9	2260.2	1439.8	1344.4	1331.2	1335.6	1298.9	1206.4	1165.3	1147.7	1124.3
45°	4067.0	2324.8	1350.3	1294.5	1288.6	1285.7	1241.7	1144.8	1121.3	1099.3	1094.9
47.5°	4392.8	2282.3	1293.0	1243.1	1249.0	1232.9	1138.9	1108.1	1081.7	1059.7	1052.3
50°	4411.9	2181.0	1212.3	1203.5	1205.0	1177.1	1087.6	1067.0	1033.3	1018.6	1008.3
52.5°	4312.1	2015.1	1137.5	1140.4	1144.8	1099.3	1024.4	1009.8	981.9	961.3	955.5
55°	4031.7	1756.8	1064.1	1075.8	1087.6	1001.0	977.5	940.8	918.8	889.4	890.9
57.5°	3551.8	1414.9	961.3	980.4	1005.4	910.0	892.4	846.9	814.6	791.1	788.2
60°	2380.6	1006.8	807.2	814.6	870.3	832.2	830.7	785.2	741.2	720.6	708.9
62.5°	1404.6	769.1	697.2	689.8	688.3	710.4	747.1	730.9	673.7	634.0	645.8
65°	735.3	664.9	648.7	623.8	609.1	603.2	631.1	638.4	600.3	557.7	554.8
67.5°	617.9	617.9	604.7	595.9	575.3	550.4	532.8	509.3	503.4	491.7	477.0
70°	562.1	576.8	572.4	551.9	534.2	506.4	460.9	422.7	386.0	372.8	381.6
72.5°	490.2	504.9	504.9	494.6	471.1	428.6	384.5	340.5	309.7	286.2	283.3
75°	377.2	384.5	402.1	390.4	359.6	333.2	287.7	242.2	212.8	190.8	186.4
77.5°	240.7	252.4	252.4	251.0	229.0	204.0	174.7	142.4	120.4	104.2	99.8
80°	160.0	167.3	173.2	167.3	152.6	133.6	111.5	89.5	73.4	60.2	57.2
82.5°	117.4	126.2	130.6	124.8	110.1	95.4	79.3	63.1	47.0	36.7	33.8
85°	45.5	47.0	52.8	63.1	61.6	60.2	48.4	35.2	26.4	19.1	17.6
87.5°	11.7	10.3	11.7	11.7	10.3	8.8	8.8	8.8	8.8	4.4	5.9
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)