

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: P452354

Luminaire Tested: **GALN-SA3B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17083 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

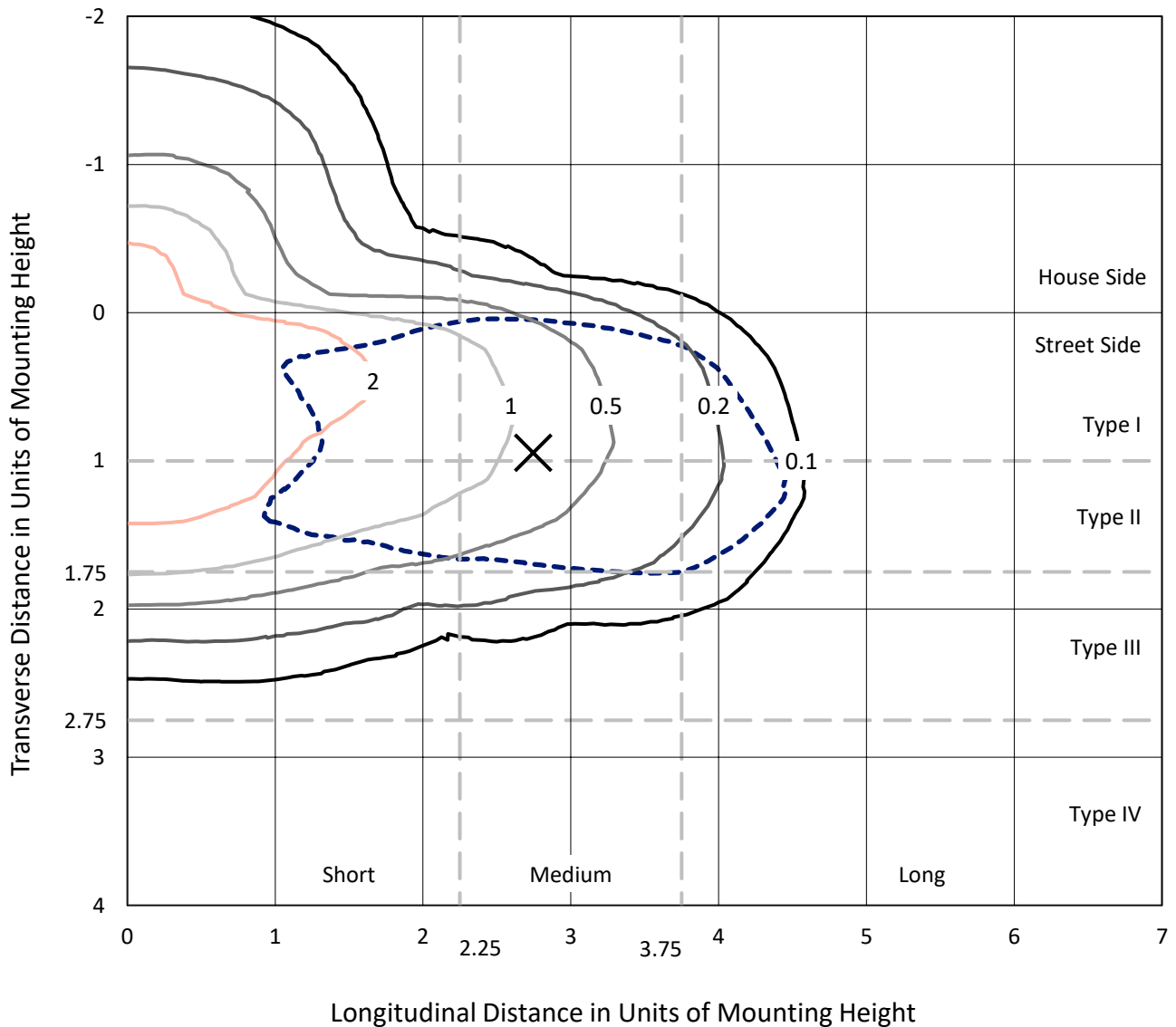
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

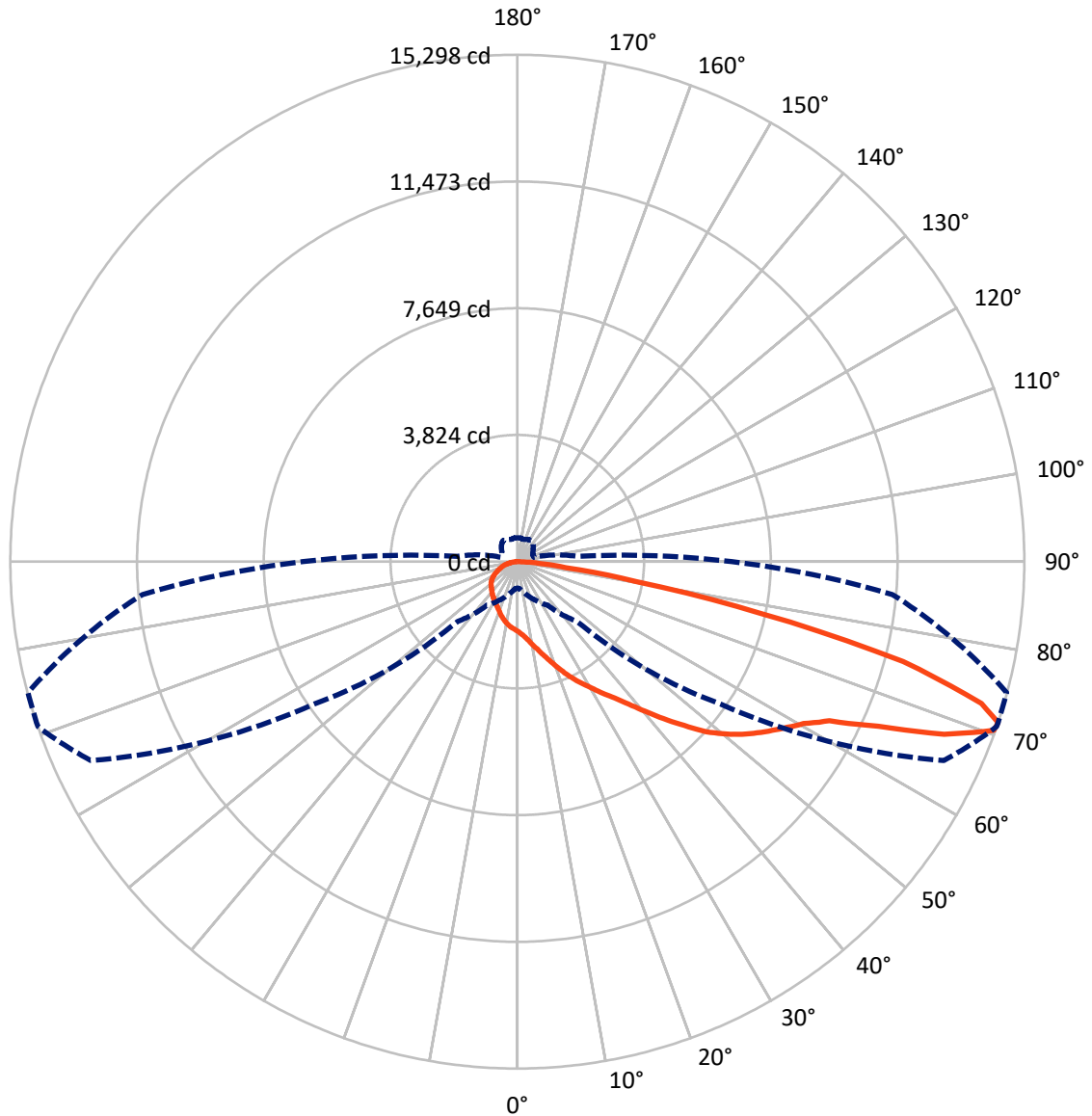
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3072.3	0.0	3072.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	14010.7	0.0	14010.7
	% Fixture	82.0	0.0	82.0
Total	Lumens	17083.0	0.0	17083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	1.2
10°-20°	683.9	4.0
20°-30°	1195.2	7.0
30°-40°	1777.8	10.4
40°-50°	2619.3	15.3
50°-60°	3667.1	21.5
60°-70°	4101.5	24.0
70°-80°	2505.4	14.7
80°-90°	322.3	1.9
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°	17083.0	100.0
0°-180°	17083.0	100.0

Coefficient of Utilization



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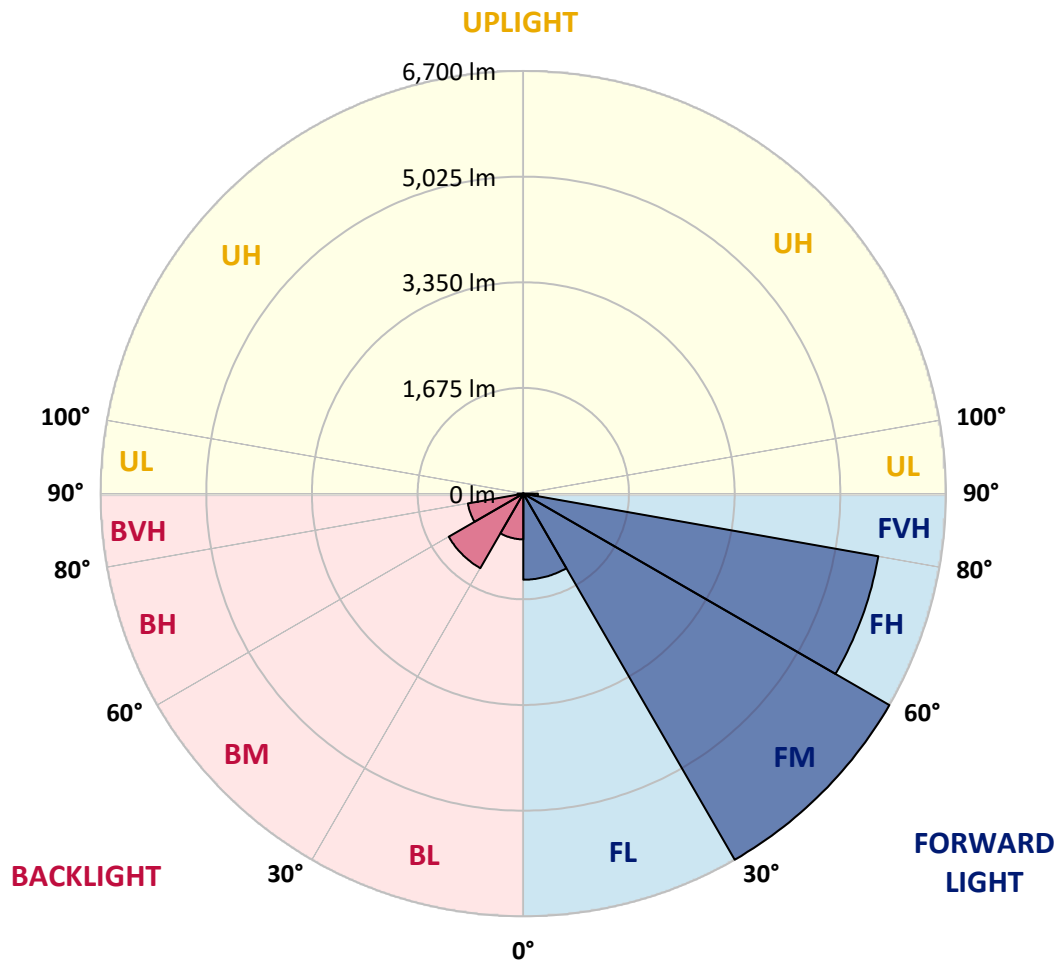
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.9	8.0			
FM (30°-60°)	6699.6	39.2			
FH (60°-80°)	5714.2	33.4			G3/7500
FVH (80°-90°)	231.9	1.4			G3/500
BL (0°-30°)	724.8	4.2	B2/1000		
BM (30°-60°)	1364.5	8.0	B2/2500		
BH (60°-80°)	892.6	5.2	B2/1000		G2/1000
BVH (80°-90°)	90.4	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6
2.5°	2327.6	2316.3	2317.2	2301.3	2280.6	2258.1	2226.2	2198.0	2175.5	2162.3	2123.8
5°	2579.2	2567.9	2553.9	2519.1	2504.1	2448.7	2378.3	2314.4	2265.6	2238.4	2161.4
7.5°	2782.9	2780.1	2776.4	2756.7	2718.2	2641.2	2581.1	2470.3	2398.0	2346.4	2214.9
10°	2908.8	2913.5	2916.3	2920.0	2904.1	2863.7	2781.1	2641.2	2549.2	2483.4	2284.4
12.5°	2972.6	2977.3	2993.3	3028.0	3049.6	3044.9	2977.3	2840.2	2713.5	2627.1	2358.6
15°	3012.0	3019.6	3047.7	3093.7	3166.0	3212.0	3179.2	3052.4	2913.5	2811.1	2446.8
17.5°	3055.2	3063.7	3094.7	3160.4	3255.2	3354.7	3390.4	3281.5	3130.3	3008.3	2545.4
20°	3079.6	3090.9	3135.0	3221.4	3332.2	3476.8	3595.1	3537.8	3372.6	3237.4	2659.0
22.5°	3119.1	3128.5	3166.0	3258.0	3390.4	3571.6	3799.8	3787.6	3642.1	3467.4	2783.9
25°	3226.1	3241.1	3259.9	3315.3	3443.0	3668.3	3969.7	4054.2	3903.1	3707.8	2898.4
27.5°	3428.0	3440.2	3439.3	3446.8	3519.1	3751.9	4117.2	4318.1	4162.2	3951.0	3009.2
30°	3658.0	3662.7	3666.5	3649.6	3665.5	3837.4	4252.4	4579.1	4423.2	4200.7	3105.9
32.5°	3937.8	3947.2	3915.3	3872.1	3858.9	3964.1	4364.1	4840.1	4732.1	4454.2	3201.7
35°	4268.3	4292.7	4227.9	4151.9	4098.4	4146.3	4514.3	5106.8	5048.6	4778.1	3328.5
37.5°	4645.8	4675.8	4615.7	4466.4	4390.4	4403.5	4710.5	5436.3	5448.5	5147.1	3517.2
40°	4954.7	4994.1	4996.0	4784.7	4669.2	4684.3	4959.4	5791.2	5931.1	5603.5	3739.7
42.5°	5158.4	5196.9	5237.3	5113.3	4992.2	5077.7	5249.5	6176.2	6473.8	6157.4	4050.5
45°	5381.9	5416.6	5439.1	5382.8	5315.2	5536.8	5599.7	6585.6	7052.2	6776.2	4390.4
47.5°	5641.0	5679.5	5701.1	5647.6	5622.2	5939.6	5977.1	6967.7	7670.0	7377.1	4765.9
50°	5986.5	6015.6	6004.4	5970.6	5964.9	6248.5	6339.6	7325.4	8179.8	8024.0	5155.6
52.5°	6416.6	6451.3	6463.5	6415.6	6394.0	6469.1	6631.6	7651.2	8643.7	8579.8	5571.5
55°	6676.6	6732.0	6917.9	6993.1	7044.7	6754.6	6946.1	8010.8	9059.6	9165.7	6018.5
57.5°	6343.3	6414.7	6830.6	7206.2	7691.6	7468.1	7392.1	8386.4	9475.5	9733.8	6553.6
60°	5530.2	5546.2	6082.3	6774.3	7750.8	8385.5	8322.6	8983.6	9926.2	10306.5	7258.8
62.5°	3836.4	3870.2	4504.0	5608.2	7020.3	8716.0	9905.6	10014.5	10572.2	11163.7	8292.5
65°	1978.3	1934.2	2511.6	3524.7	5292.7	7931.0	11188.1	11910.2	11973.1	12504.5	9747.8
67.5°	1217.8	1237.5	1507.9	2058.1	3129.4	5764.0	11053.9	14226.5	13895.0	14150.4	11098.9
70°	914.5	938.9	1124.8	1408.4	1907.9	3295.6	8889.7	14787.9	15250.8	15185.1	11510.2
71°	795.3	820.6	1014.0	1281.6	1602.7	2543.5	7489.7	14200.2	15297.8	15286.5	11355.3
72.5°	677.9	693.9	845.0	1085.4	1351.1	1783.0	5626.9	12735.5	14645.2	15019.9	10802.2
75°	532.4	544.6	612.2	828.1	1063.8	1094.8	3019.6	9547.8	12028.5	12742.0	8992.9
77.5°	433.8	442.2	477.0	615.0	820.6	775.5	1584.0	6214.7	7535.7	8254.0	5297.4
80°	344.6	354.0	374.6	416.9	615.0	553.0	755.8	3149.1	3640.2	3632.7	2114.4
82.5°	267.6	270.4	294.8	306.1	420.6	392.5	409.4	1333.3	1476.9	1525.7	763.3
85°	169.0	177.5	261.0	234.7	251.6	230.0	201.9	529.5	652.5	643.2	305.1
87.5°	51.6	54.5	88.3	99.5	111.7	100.5	74.2	155.9	190.6	206.6	76.1
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°	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6	2096.6
2.5°	2108.8	2098.5	2061.9	2031.8	2003.6	1972.7	1946.4	1938.9	1932.3	1929.5	1928.5
5°	2128.5	2097.5	2025.2	1966.1	1919.1	1876.0	1848.7	1836.5	1824.3	1824.3	1828.1
7.5°	2156.7	2100.4	1988.6	1900.4	1841.2	1800.8	1781.1	1779.2	1782.1	1784.9	1785.8
10°	2187.7	2098.5	1935.1	1825.3	1772.7	1753.9	1754.8	1770.8	1785.8	1797.1	1799.0
12.5°	2217.7	2087.2	1872.2	1754.8	1721.0	1724.8	1751.1	1786.8	1815.9	1831.8	1832.8
15°	2251.5	2069.4	1796.1	1688.2	1676.9	1706.0	1754.8	1809.3	1853.4	1879.7	1882.5
17.5°	2279.7	2039.3	1716.3	1623.4	1637.5	1691.0	1758.6	1829.0	1882.5	1915.4	1921.0
20°	2311.6	2000.8	1633.7	1561.4	1601.8	1674.1	1751.1	1827.1	1882.5	1914.5	1922.0
22.5°	2337.0	1946.4	1554.8	1510.7	1569.9	1653.4	1725.7	1786.8	1831.8	1848.7	1860.0
25°	2347.3	1877.8	1480.7	1469.4	1544.5	1619.6	1668.5	1703.2	1717.3	1715.4	1720.1
27.5°	2341.7	1799.0	1416.8	1436.5	1512.6	1567.1	1591.5	1588.6	1563.3	1539.8	1551.1
30°	2318.2	1705.1	1363.3	1402.7	1471.3	1501.3	1497.6	1461.0	1413.1	1368.9	1371.8
32.5°	2275.9	1603.7	1313.5	1364.2	1413.1	1426.2	1400.9	1353.0	1284.4	1227.2	1218.7
35°	2240.3	1507.0	1269.4	1320.1	1354.9	1348.3	1323.9	1261.9	1199.9	1149.2	1140.8
37.5°	2234.6	1424.3	1227.2	1270.4	1290.1	1280.7	1250.6	1198.1	1175.5	1137.0	1132.3
40°	2264.7	1366.1	1184.0	1217.8	1227.2	1219.7	1186.8	1156.7	1177.4	1168.0	1168.0
42.5°	2346.4	1335.1	1145.5	1165.2	1172.7	1178.3	1154.9	1129.5	1154.9	1111.7	1097.6
45°	2475.9	1336.1	1110.7	1113.6	1136.1	1155.8	1139.8	1102.3	1089.1	1002.8	985.9
47.5°	2666.5	1368.0	1082.6	1064.7	1105.1	1138.0	1115.4	1061.0	1002.8	945.5	935.2
50°	2889.0	1425.3	1057.2	1014.0	1063.8	1115.4	1098.5	1034.7	974.6	939.9	933.3
52.5°	3136.0	1497.6	1026.2	957.7	1013.1	1105.1	1102.3	1030.9	948.3	924.8	919.2
55°	3441.1	1568.9	987.7	892.0	968.0	1096.7	1092.0	999.9	942.7	925.8	923.9
57.5°	3796.0	1672.2	932.3	825.3	916.4	1061.9	1051.6	981.2	923.9	911.7	910.7
60°	4367.8	1832.8	853.5	764.3	863.8	1000.9	1014.0	949.2	893.8	891.0	890.1
62.5°	5119.9	2058.1	771.8	701.4	802.8	922.0	959.6	906.1	861.9	876.0	877.9
65°	6158.4	2247.8	687.3	647.9	735.2	846.0	907.9	865.7	826.2	853.5	853.5
67.5°	6835.3	2251.5	610.3	592.5	666.6	782.1	853.5	817.8	780.2	826.2	828.1
70°	6694.5	1972.7	546.4	534.2	600.0	713.6	793.4	765.2	722.0	763.3	748.3
71°	6467.3	1817.7	521.1	511.7	573.7	680.7	765.2	741.7	698.6	725.8	717.3
72.5°	6104.8	1578.3	479.8	481.7	534.2	639.4	725.8	701.4	658.2	673.2	670.4
75°	5160.3	1378.3	410.3	418.8	459.1	569.0	646.9	628.1	584.0	584.0	581.2
77.5°	3226.1	963.3	340.8	345.5	389.7	487.3	555.8	539.9	497.6	483.5	479.8
80°	1203.7	497.6	266.7	272.3	299.5	384.0	460.1	445.0	401.9	385.9	370.9
82.5°	455.4	249.8	196.2	191.5	220.6	292.9	360.5	342.7	308.9	270.4	259.1
85°	171.8	123.9	120.2	116.4	129.6	173.7	223.5	219.7	184.0	156.8	154.0
87.5°	45.1	40.4	46.9	34.7	36.6	32.9	33.8	14.1	6.6	2.8	1.9
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)