

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: P453920

Luminaire Tested: **GALN-SA5A-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453920
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-SA5A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19262 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

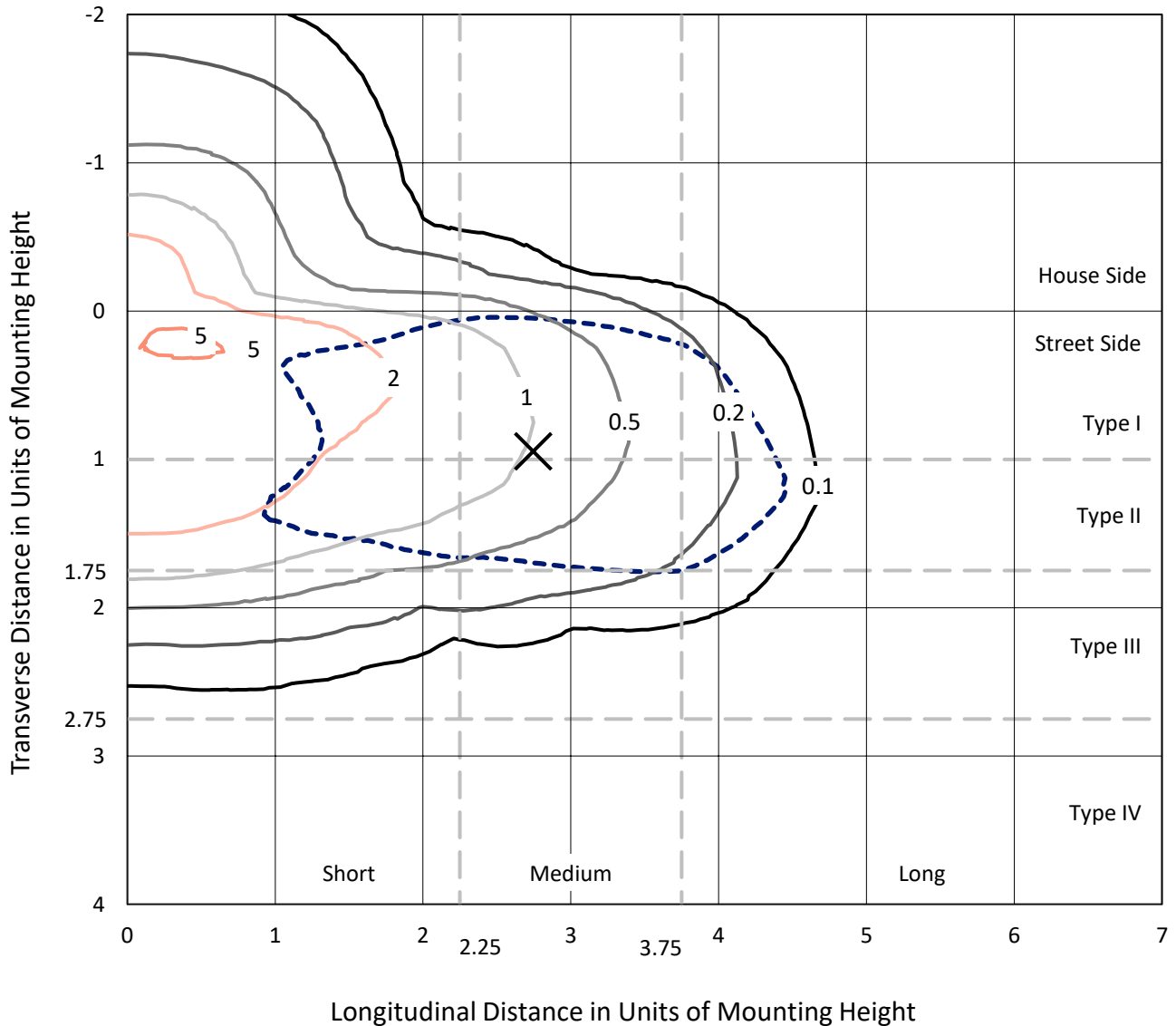
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

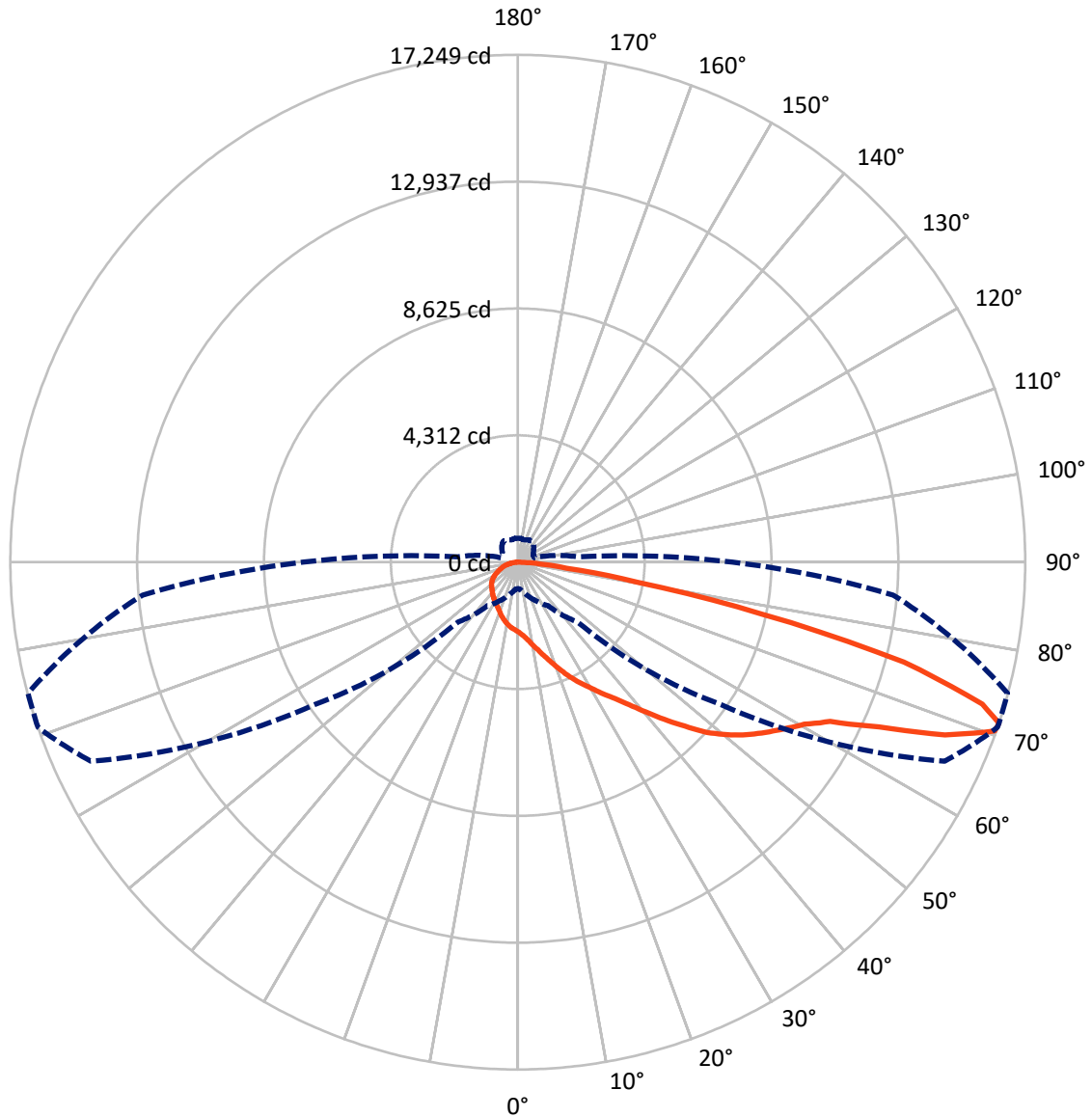
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	3464.2	0.0	3464.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	15797.8	0.0	15797.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	19262.0	0.0	19262.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.4	1.2
10°-20°	771.2	4.0
20°-30°	1347.7	7.0
30°-40°	2004.5	10.4
40°-50°	2953.4	15.3
50°-60°	4134.8	21.5
60°-70°	4624.7	24.0
70°-80°	2824.9	14.7
80°-90°	363.4	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°	19262.0	100.0
0°-180°	19262.0	100.0



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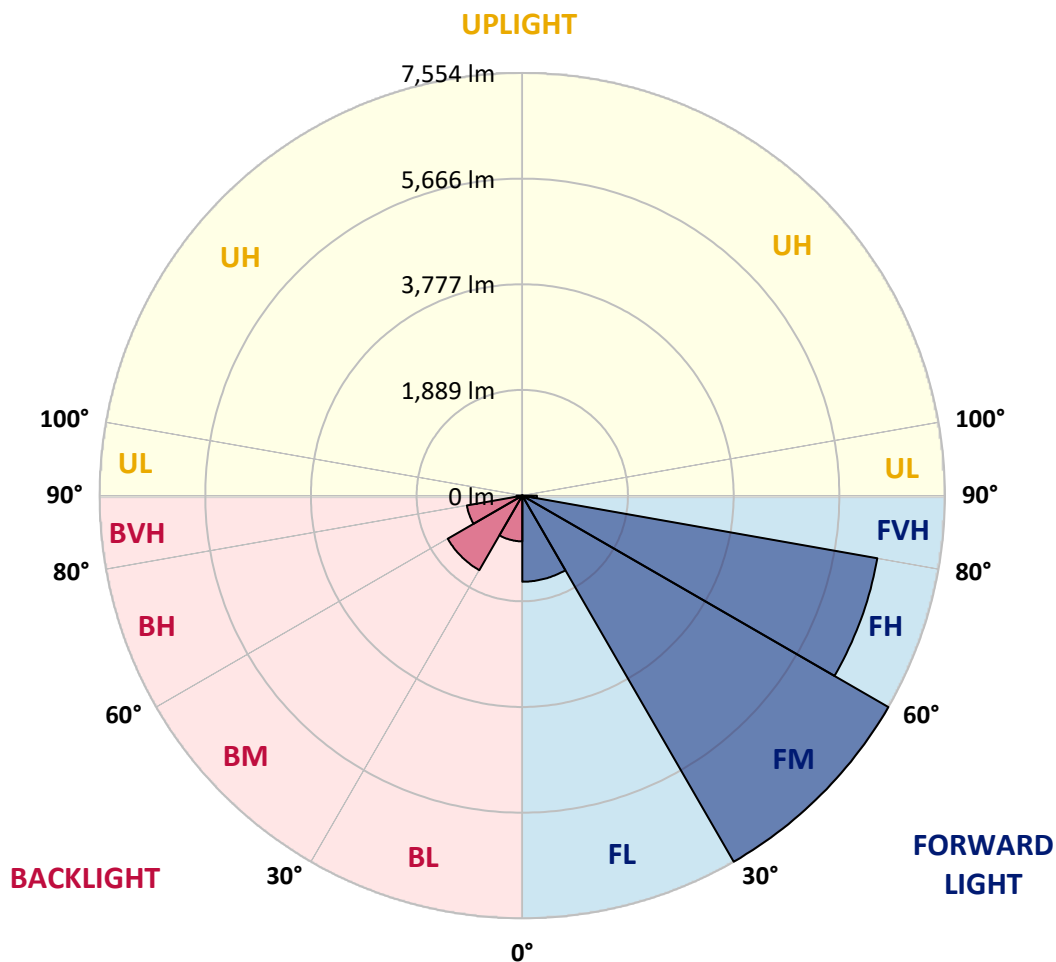
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.0	8.0			
FM (30°-60°)	7554.2	39.2			
FH (60°-80°)	6443.1	33.4			G3/7500
FVH (80°-90°)	261.5	1.4			G3/500
BL (0°-30°)	817.2	4.2	B2/1000		
BM (30°-60°)	1538.6	8.0	B2/2500		
BH (60°-80°)	1006.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	101.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0
2.5°	2624.5	2611.8	2612.8	2594.8	2571.5	2546.1	2510.1	2478.4	2453.0	2438.1	2394.7
5°	2908.2	2895.5	2879.6	2840.4	2823.5	2761.0	2681.6	2609.6	2554.6	2523.9	2437.1
7.5°	3137.9	3134.7	3130.5	3108.3	3064.9	2978.1	2910.3	2785.4	2703.9	2645.6	2497.4
10°	3279.8	3285.1	3288.3	3292.5	3274.5	3229.0	3135.8	2978.1	2874.3	2800.2	2575.8
12.5°	3351.8	3357.1	3375.1	3414.2	3438.6	3433.3	3357.1	3202.5	3059.6	2962.2	2659.4
15°	3396.2	3404.7	3436.5	3488.3	3569.9	3621.7	3584.7	3441.8	3285.1	3169.7	2758.9
17.5°	3444.9	3454.5	3489.4	3563.5	3670.4	3782.7	3822.9	3700.1	3529.6	3392.0	2870.1
20°	3472.5	3485.2	3534.9	3632.3	3757.3	3920.3	4053.7	3989.1	3802.8	3650.3	2998.2
22.5°	3516.9	3527.5	3569.9	3673.6	3822.9	4027.2	4284.5	4270.7	4106.6	3909.7	3139.0
25°	3637.6	3654.6	3675.7	3738.2	3882.2	4136.3	4476.1	4571.4	4400.9	4180.7	3268.1
27.5°	3865.2	3879.0	3877.9	3886.4	3967.9	4230.5	4642.3	4868.9	4693.1	4454.9	3393.1
30°	4124.6	4129.9	4134.1	4115.1	4133.1	4326.8	4794.8	5163.2	4987.4	4736.5	3502.1
32.5°	4440.1	4450.7	4414.7	4366.0	4351.2	4469.7	4920.7	5457.5	5335.7	5022.4	3610.1
35°	4812.8	4840.3	4767.2	4681.5	4621.1	4675.1	5090.1	5758.2	5692.5	5387.6	3753.0
37.5°	5238.3	5272.2	5204.5	5036.1	4950.4	4965.2	5311.4	6129.8	6143.5	5803.7	3965.8
40°	5586.6	5631.1	5633.2	5395.0	5264.8	5281.8	5591.9	6529.9	6687.7	6318.2	4216.7
42.5°	5816.4	5859.8	5905.3	5765.6	5629.0	5725.3	5919.1	6964.0	7299.6	6942.8	4567.1
45°	6068.3	6107.5	6132.9	6069.4	5993.2	6243.0	6314.0	7425.6	7951.7	7640.5	4950.4
47.5°	6360.5	6404.0	6428.3	6368.0	6339.4	6697.2	6739.6	7856.5	8648.4	8318.0	5373.9
50°	6750.1	6783.0	6770.3	6732.1	6725.8	7045.5	7148.2	8259.8	9223.2	9047.5	5813.2
52.5°	7235.0	7274.2	7287.9	7234.0	7209.6	7294.3	7477.5	8627.2	9746.2	9674.2	6282.2
55°	7528.3	7590.7	7800.3	7885.0	7943.3	7616.1	7832.1	9032.7	10215.2	10334.8	6786.1
57.5°	7152.4	7232.9	7701.9	8125.4	8672.7	8420.7	8335.0	9456.1	10684.2	10975.3	7389.6
60°	6235.6	6253.6	6858.1	7638.4	8739.4	9455.1	9384.1	10129.4	11192.4	11621.1	8184.6
62.5°	4325.8	4363.9	5078.5	6323.5	7915.7	9827.7	11169.1	11291.9	11920.7	12587.7	9350.3
65°	2230.6	2180.9	2832.0	3974.3	5967.8	8942.7	12615.2	13429.3	13500.3	14099.5	10991.2
67.5°	1373.1	1395.3	1700.2	2320.6	3528.6	6499.2	12463.8	16041.1	15667.4	15955.4	12514.6
70°	1031.2	1058.7	1268.3	1588.0	2151.2	3716.0	10023.6	16674.2	17196.1	17122.0	12978.3
71°	896.7	925.3	1143.4	1445.1	1807.2	2868.0	8445.1	16011.5	17249.1	17236.4	12803.7
72.5°	764.4	782.4	952.8	1223.8	1523.4	2010.4	6344.7	14359.9	16513.3	16935.7	12180.1
75°	600.3	614.0	690.3	933.8	1199.5	1234.4	3404.7	10765.7	13562.7	14367.3	10140.0
77.5°	489.1	498.6	537.8	693.4	925.3	874.5	1786.0	7007.4	8497.0	9306.8	5973.1
80°	388.5	399.1	422.4	470.1	693.4	623.6	852.2	3550.8	4104.5	4096.0	2384.1
82.5°	301.7	304.9	332.4	345.1	474.3	442.5	461.6	1503.3	1665.3	1720.4	860.7
85°	190.6	200.1	294.3	264.7	283.7	259.4	227.6	597.1	735.8	725.2	344.1
87.5°	58.2	61.4	99.5	112.2	126.0	113.3	83.6	175.7	214.9	232.9	85.8
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°	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0	2364.0
2.5°	2377.8	2366.1	2324.9	2291.0	2259.2	2224.3	2194.6	2186.2	2178.8	2175.6	2174.5
5°	2400.0	2365.1	2283.6	2216.9	2163.9	2115.2	2084.5	2070.8	2057.0	2057.0	2061.2
7.5°	2431.8	2368.3	2242.3	2142.8	2076.1	2030.5	2008.3	2006.2	2009.4	2012.5	2013.6
10°	2466.7	2366.1	2181.9	2058.1	1998.8	1977.6	1978.7	1996.7	2013.6	2026.3	2028.4
12.5°	2500.6	2353.4	2111.0	1978.7	1940.6	1944.8	1974.4	2014.7	2047.5	2065.5	2066.5
15°	2538.7	2333.3	2025.3	1903.5	1890.8	1923.6	1978.7	2040.1	2089.8	2119.5	2122.7
17.5°	2570.5	2299.5	1935.3	1830.5	1846.3	1906.7	1982.9	2062.3	2122.7	2159.7	2166.1
20°	2606.5	2256.0	1842.1	1760.6	1806.1	1887.6	1974.4	2060.2	2122.7	2158.6	2167.1
22.5°	2635.1	2194.6	1753.2	1703.4	1770.1	1864.3	1945.9	2014.7	2065.5	2084.5	2097.2
25°	2646.7	2117.4	1669.5	1656.8	1741.5	1826.2	1881.3	1920.4	1936.3	1934.2	1939.5
27.5°	2640.3	2028.4	1597.5	1619.8	1705.5	1766.9	1794.5	1791.3	1762.7	1736.2	1748.9
30°	2613.9	1922.6	1537.2	1581.7	1659.0	1692.8	1688.6	1647.3	1593.3	1543.6	1546.7
32.5°	2566.2	1808.2	1481.1	1538.3	1593.3	1608.1	1579.5	1525.6	1448.3	1383.7	1374.2
35°	2526.0	1699.2	1431.3	1488.5	1527.7	1520.3	1492.7	1422.9	1353.0	1295.8	1286.3
37.5°	2519.7	1606.0	1383.7	1432.4	1454.6	1444.0	1410.2	1350.9	1325.5	1282.1	1276.8
40°	2553.5	1540.4	1335.0	1373.1	1383.7	1375.2	1338.2	1304.3	1327.6	1317.0	1317.0
42.5°	2645.6	1505.4	1291.6	1313.8	1322.3	1328.6	1302.2	1273.6	1302.2	1253.5	1237.6
45°	2791.7	1506.5	1252.4	1255.6	1281.0	1303.2	1285.2	1242.9	1228.1	1130.7	1111.6
47.5°	3006.6	1542.5	1220.7	1200.5	1246.1	1283.1	1257.7	1196.3	1130.7	1066.1	1054.4
50°	3257.6	1607.1	1192.1	1143.4	1199.5	1257.7	1238.7	1166.7	1098.9	1059.7	1052.3
52.5°	3536.0	1688.6	1157.1	1079.9	1142.3	1246.1	1242.9	1162.4	1069.3	1042.8	1036.4
55°	3880.1	1769.1	1113.7	1005.7	1091.5	1236.5	1231.2	1127.5	1062.9	1043.9	1041.7
57.5°	4280.2	1885.5	1051.3	930.6	1033.3	1197.4	1185.7	1106.3	1041.7	1028.0	1026.9
60°	4925.0	2066.5	962.3	861.8	974.0	1128.6	1143.4	1070.3	1007.9	1004.7	1003.6
62.5°	5773.0	2320.6	870.2	790.8	905.2	1039.6	1082.0	1021.6	971.9	987.7	989.9
65°	6943.9	2534.5	775.0	730.5	828.9	953.9	1023.7	976.1	931.6	962.3	962.3
67.5°	7707.2	2538.7	688.1	668.0	751.7	881.9	962.3	922.1	879.8	931.6	933.8
70°	7548.4	2224.3	616.2	602.4	676.5	804.6	894.6	862.8	814.1	860.7	843.8
71°	7292.2	2049.6	587.6	577.0	646.9	767.5	862.8	836.4	787.7	818.4	808.8
72.5°	6883.5	1779.6	541.0	543.1	602.4	721.0	818.4	790.8	742.1	759.1	755.9
75°	5818.5	1554.1	462.6	472.2	517.7	641.6	729.4	708.3	658.5	658.5	655.3
77.5°	3637.6	1086.2	384.3	389.6	439.4	549.5	626.7	608.7	561.1	545.2	541.0
80°	1357.2	561.1	300.7	307.0	337.7	433.0	518.8	501.8	453.1	435.1	418.2
82.5°	513.5	281.6	221.3	216.0	248.8	330.3	406.5	386.4	348.3	304.9	292.2
85°	193.7	139.7	135.5	131.3	146.1	195.9	252.0	247.7	207.5	176.8	173.6
87.5°	50.8	45.5	52.9	39.2	41.3	37.1	38.1	15.9	7.4	3.2	2.1
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)