

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: P458792

Luminaire Tested: **GALN-SA3B-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458792
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-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15914 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

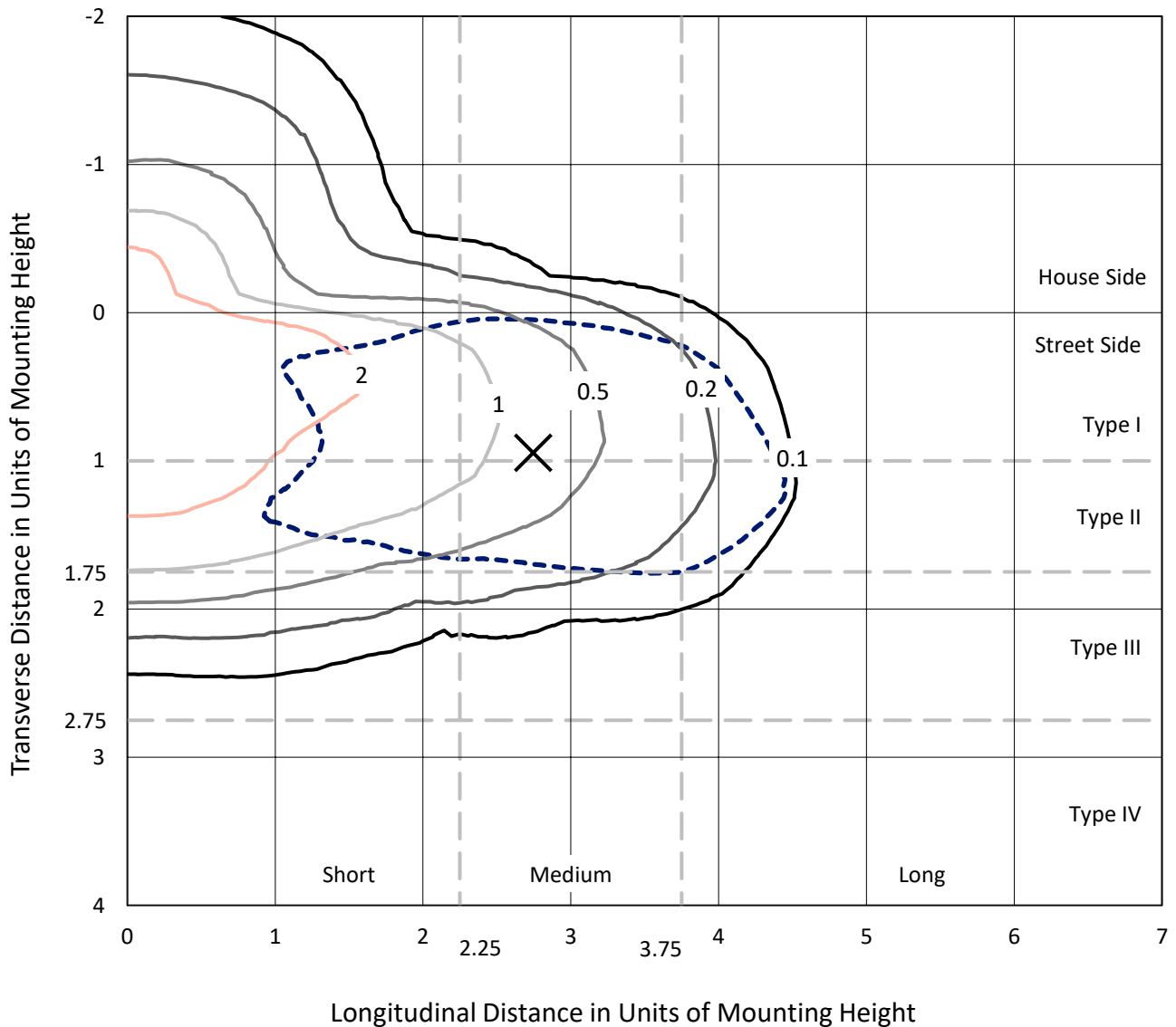
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

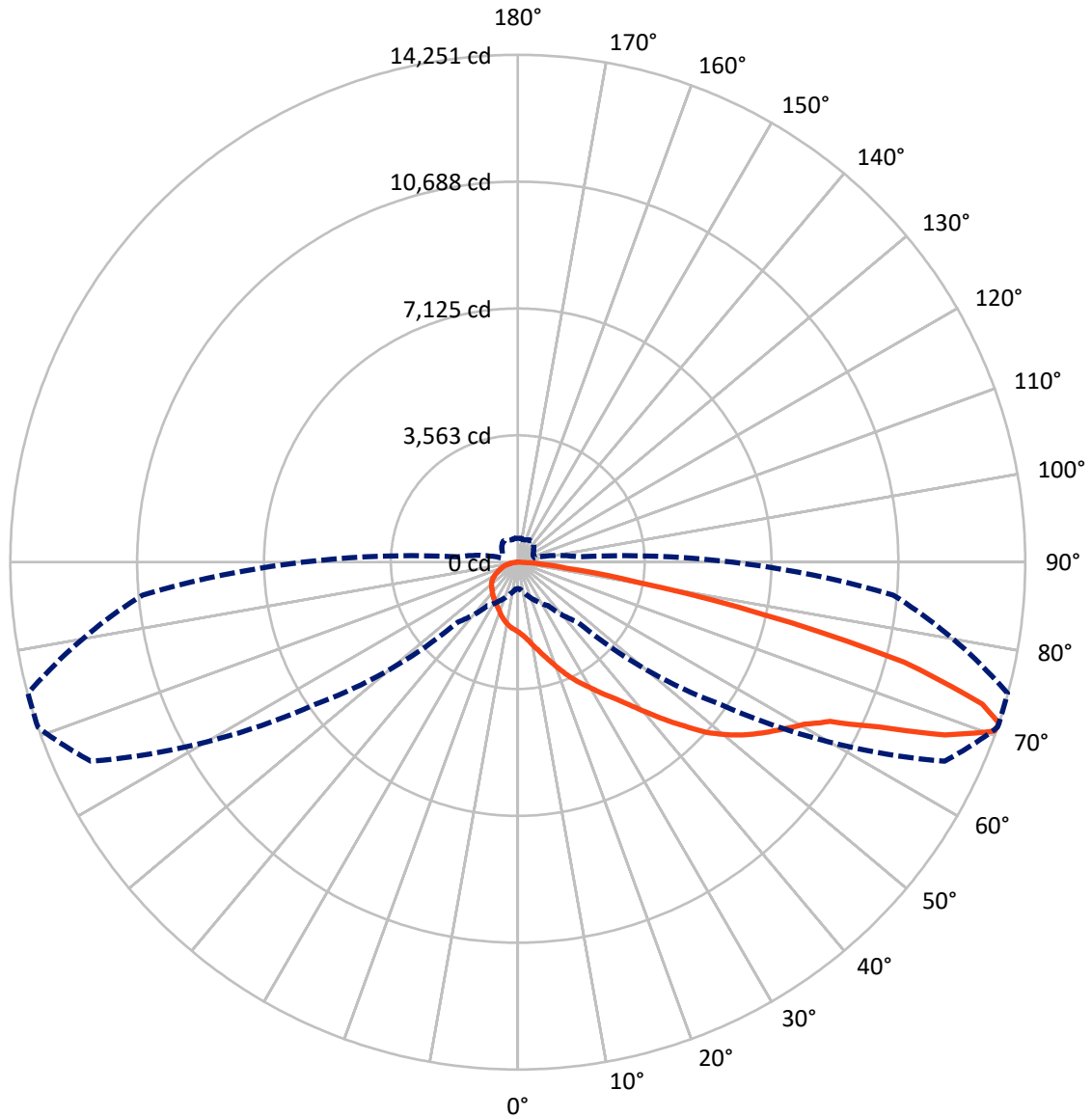
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	2862.1	0.0	2862.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	13051.9	0.0	13051.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	15914.0	0.0	15914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	1.2
10°-20°	637.1	4.0
20°-30°	1113.4	7.0
30°-40°	1656.1	10.4
40°-50°	2440.1	15.3
50°-60°	3416.1	21.5
60°-70°	3820.8	24.0
70°-80°	2333.9	14.7
80°-90°	300.2	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°	15914.0	100.0
0°-180°	15914.0	100.0

Coefficient of Utilization



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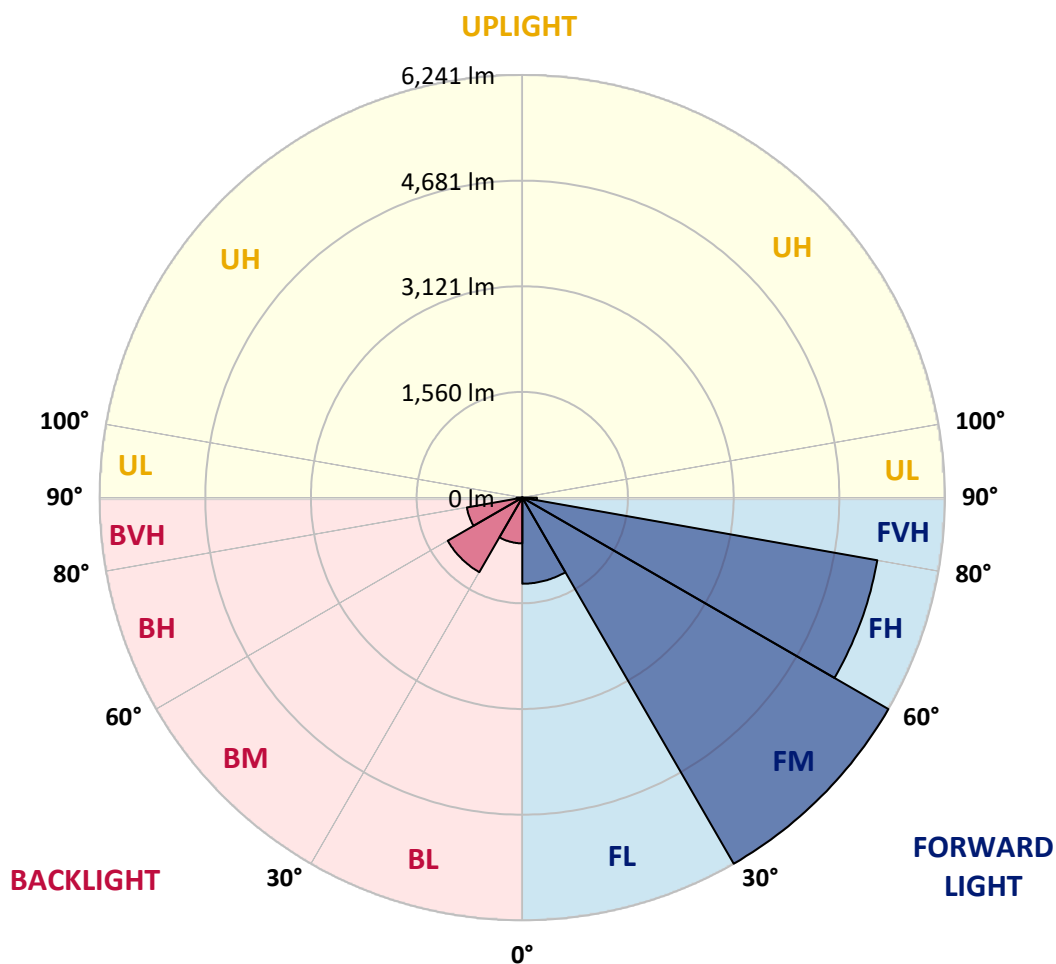
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1271.5	8.0			
FM	(30°-60°)	6241.2	39.2			
FH	(60°-80°)	5323.2	33.4			G3/7500
FVH	(80°-90°)	216.0	1.4			G2/225
BL	(0°-30°)	675.2	4.2	B2/1000		
BM	(30°-60°)	1271.2	8.0	B2/2500		
BH	(60°-80°)	831.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	84.2	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°	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1
2.5°	2168.3	2157.8	2158.7	2143.8	2124.6	2103.6	2073.8	2047.6	2026.6	2014.4	1978.5
5°	2402.7	2392.2	2379.1	2346.7	2332.7	2281.1	2215.5	2156.1	2110.6	2085.2	2013.5
7.5°	2592.5	2589.9	2586.4	2568.0	2532.2	2460.4	2404.5	2301.2	2233.9	2185.8	2063.3
10°	2709.7	2714.1	2716.7	2720.2	2705.3	2667.7	2590.8	2460.4	2374.7	2313.5	2128.1
12.5°	2769.2	2773.6	2788.4	2820.8	2840.9	2836.5	2773.6	2645.9	2527.8	2447.3	2197.2
15°	2805.9	2812.9	2839.2	2882.0	2949.4	2992.2	2961.6	2843.5	2714.1	2618.8	2279.4
17.5°	2846.2	2854.0	2882.9	2944.1	3032.5	3125.2	3158.4	3057.0	2916.1	2802.4	2371.2
20°	2868.9	2879.4	2920.5	3001.0	3104.2	3238.9	3349.1	3295.7	3141.8	3015.8	2477.1
22.5°	2905.6	2914.4	2949.4	3035.1	3158.4	3327.2	3539.8	3528.4	3392.8	3230.1	2593.4
25°	3005.4	3019.3	3036.8	3088.4	3207.4	3417.3	3698.1	3776.8	3636.0	3454.1	2700.1
27.5°	3193.4	3204.8	3203.9	3210.9	3278.2	3495.2	3835.4	4022.6	3877.4	3680.6	2803.3
30°	3407.7	3412.1	3415.6	3399.8	3414.7	3574.8	3961.4	4265.7	4120.6	3913.3	2893.4
32.5°	3668.3	3677.1	3647.4	3607.1	3594.9	3692.8	4065.4	4508.9	4408.3	4149.4	2982.6
35°	3976.2	3999.0	3938.6	3867.8	3817.9	3862.5	4205.4	4757.3	4703.1	4451.2	3100.7
37.5°	4327.8	4355.8	4299.9	4160.8	4089.9	4102.2	4388.2	5064.3	5075.7	4794.9	3276.5
40°	4615.6	4652.3	4654.1	4457.3	4349.7	4363.7	4620.0	5394.9	5525.3	5220.0	3483.8
42.5°	4805.4	4841.3	4878.9	4763.4	4650.6	4730.2	4890.3	5753.6	6030.8	5736.1	3773.3
45°	5013.6	5045.9	5066.9	5014.5	4951.5	5157.9	5216.5	6134.9	6569.6	6312.5	4089.9
47.5°	5255.0	5290.9	5311.0	5261.1	5237.5	5533.1	5568.1	6490.9	7145.1	6872.3	4439.8
50°	5576.9	5604.0	5593.5	5562.0	5556.8	5820.9	5905.7	6824.1	7620.1	7474.9	4802.8
52.5°	5977.5	6009.8	6021.2	5976.6	5956.5	6026.5	6177.8	7127.7	8052.2	7992.7	5190.3
55°	6219.8	6271.4	6444.5	6514.5	6562.6	6292.3	6470.8	7462.7	8439.7	8538.5	5606.6
57.5°	5909.2	5975.7	6363.2	6713.1	7165.3	6957.1	6886.2	7812.5	8827.1	9067.7	6105.2
60°	5151.8	5166.7	5666.1	6310.7	7220.4	7811.6	7753.0	8368.8	9247.0	9601.2	6762.0
62.5°	3573.9	3605.4	4195.8	5224.4	6539.9	8119.5	9227.7	9329.2	9848.7	10399.8	7725.1
65°	1842.9	1801.8	2339.7	3283.5	4930.5	7388.3	10422.5	11095.1	11153.7	11648.8	9080.8
67.5°	1134.4	1152.8	1404.7	1917.3	2915.3	5369.6	10297.4	13252.9	12944.2	13182.1	10339.4
70°	851.9	874.7	1047.9	1312.0	1777.3	3070.1	8281.3	13776.0	14207.2	14146.0	10722.5
71°	740.8	764.5	944.6	1193.9	1493.1	2369.5	6977.2	13228.5	14250.9	14240.4	10578.2
72.5°	631.5	646.4	787.2	1011.1	1258.6	1661.0	5241.9	11864.0	13643.0	13992.0	10063.0
75°	495.9	507.3	570.3	771.5	991.0	1019.9	2812.9	8894.5	11205.3	11870.1	8377.6
77.5°	404.1	412.0	444.3	572.9	764.5	722.5	1475.6	5789.4	7020.1	7689.2	4934.9
80°	321.0	329.7	349.0	388.4	572.9	515.2	704.1	2933.6	3391.1	3384.1	1969.7
82.5°	249.3	251.9	274.6	285.1	391.9	365.6	381.4	1242.0	1375.8	1421.3	711.1
85°	157.4	165.3	243.2	218.7	234.4	214.3	188.1	493.3	607.9	599.1	284.3
87.5°	48.1	50.7	82.2	92.7	104.1	93.6	69.1	145.2	177.6	192.4	70.8
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°	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1	1953.1
2.5°	1964.5	1954.9	1920.8	1892.8	1866.5	1837.7	1813.2	1806.2	1800.1	1797.4	1796.6
5°	1982.9	1954.0	1886.7	1831.6	1787.8	1747.6	1722.2	1710.8	1699.5	1699.5	1703.0
7.5°	2009.1	1956.6	1852.5	1770.3	1715.2	1677.6	1659.2	1657.5	1660.1	1662.7	1663.6
10°	2038.0	1954.9	1802.7	1700.4	1651.4	1633.9	1634.8	1649.6	1663.6	1674.1	1675.9
12.5°	2066.0	1944.4	1744.1	1634.8	1603.3	1606.8	1631.3	1664.5	1691.6	1706.5	1707.3
15°	2097.4	1927.8	1673.2	1572.6	1562.2	1589.3	1634.8	1685.5	1726.6	1751.1	1753.7
17.5°	2123.7	1899.8	1598.9	1512.3	1525.4	1575.3	1638.2	1703.8	1753.7	1784.3	1789.6
20°	2153.4	1863.9	1521.9	1454.6	1492.2	1559.5	1631.3	1702.1	1753.7	1783.4	1790.4
22.5°	2177.0	1813.2	1448.4	1407.3	1462.4	1540.3	1607.6	1664.5	1706.5	1722.2	1732.7
25°	2186.7	1749.3	1379.3	1368.9	1438.8	1508.8	1554.3	1586.6	1599.8	1598.0	1602.4
27.5°	2181.4	1675.9	1319.9	1338.2	1409.1	1459.8	1482.6	1479.9	1456.3	1434.5	1444.9
30°	2159.6	1588.4	1270.0	1306.8	1370.6	1398.6	1395.1	1361.0	1316.4	1275.3	1277.9
32.5°	2120.2	1493.9	1223.7	1270.9	1316.4	1328.6	1305.0	1260.4	1196.5	1143.2	1135.3
35°	2087.0	1403.8	1182.5	1229.8	1262.1	1256.0	1233.3	1175.6	1117.8	1070.6	1062.7
37.5°	2081.7	1326.9	1143.2	1183.4	1201.8	1193.0	1165.1	1116.1	1095.1	1059.2	1054.8
40°	2109.7	1272.6	1103.0	1134.4	1143.2	1136.2	1105.6	1077.6	1096.8	1088.1	1088.1
42.5°	2185.8	1243.8	1067.1	1085.5	1092.5	1097.7	1075.8	1052.2	1075.8	1035.6	1022.5
45°	2306.5	1244.6	1034.7	1037.4	1058.3	1076.7	1061.8	1026.9	1014.6	934.1	918.4
47.5°	2484.1	1274.4	1008.5	991.9	1029.5	1060.1	1039.1	988.4	934.1	880.8	871.2
50°	2691.3	1327.7	984.9	944.6	991.0	1039.1	1023.4	963.9	907.9	875.5	869.4
52.5°	2921.4	1395.1	956.0	892.2	943.8	1029.5	1026.9	960.4	883.4	861.5	856.3
55°	3205.7	1461.6	920.1	830.9	901.8	1021.6	1017.2	931.5	878.2	862.4	860.7
57.5°	3536.3	1557.8	868.5	768.8	853.7	989.2	979.6	914.0	860.7	849.3	848.4
60°	4068.9	1707.3	795.1	712.0	804.7	932.4	944.6	884.3	832.7	830.1	829.2
62.5°	4769.6	1917.3	719.0	653.4	747.8	858.9	893.9	844.1	802.9	816.1	817.8
65°	5736.9	2094.0	640.3	603.5	684.9	788.1	845.8	806.4	769.7	795.1	795.1
67.5°	6367.6	2097.4	568.5	551.9	621.0	728.6	795.1	761.8	726.8	769.7	771.5
70°	6236.4	1837.7	509.1	497.7	558.9	664.7	739.1	712.9	672.6	711.1	697.1
71°	6024.7	1693.4	485.4	476.7	534.4	634.1	712.9	691.0	650.8	676.1	668.2
72.5°	5687.1	1470.3	447.0	448.7	497.7	595.6	676.1	653.4	613.1	627.1	624.5
75°	4807.2	1284.0	382.2	390.1	427.7	530.0	602.6	585.2	544.0	544.0	541.4
77.5°	3005.4	897.4	317.5	321.9	363.0	454.0	517.8	502.9	463.6	450.5	447.0
80°	1121.3	463.6	248.4	253.7	279.0	357.7	428.6	414.6	374.4	359.5	345.5
82.5°	424.2	232.7	182.8	178.4	205.5	272.9	335.9	319.3	287.8	251.9	241.4
85°	160.1	115.5	112.0	108.5	120.7	161.8	208.2	204.7	171.4	146.1	143.4
87.5°	42.0	37.6	43.7	32.4	34.1	30.6	31.5	13.1	6.1	2.6	1.7
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)