

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: P451890

Luminaire Tested: **GALN-SA2D-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451890
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-SA2D-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15645 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

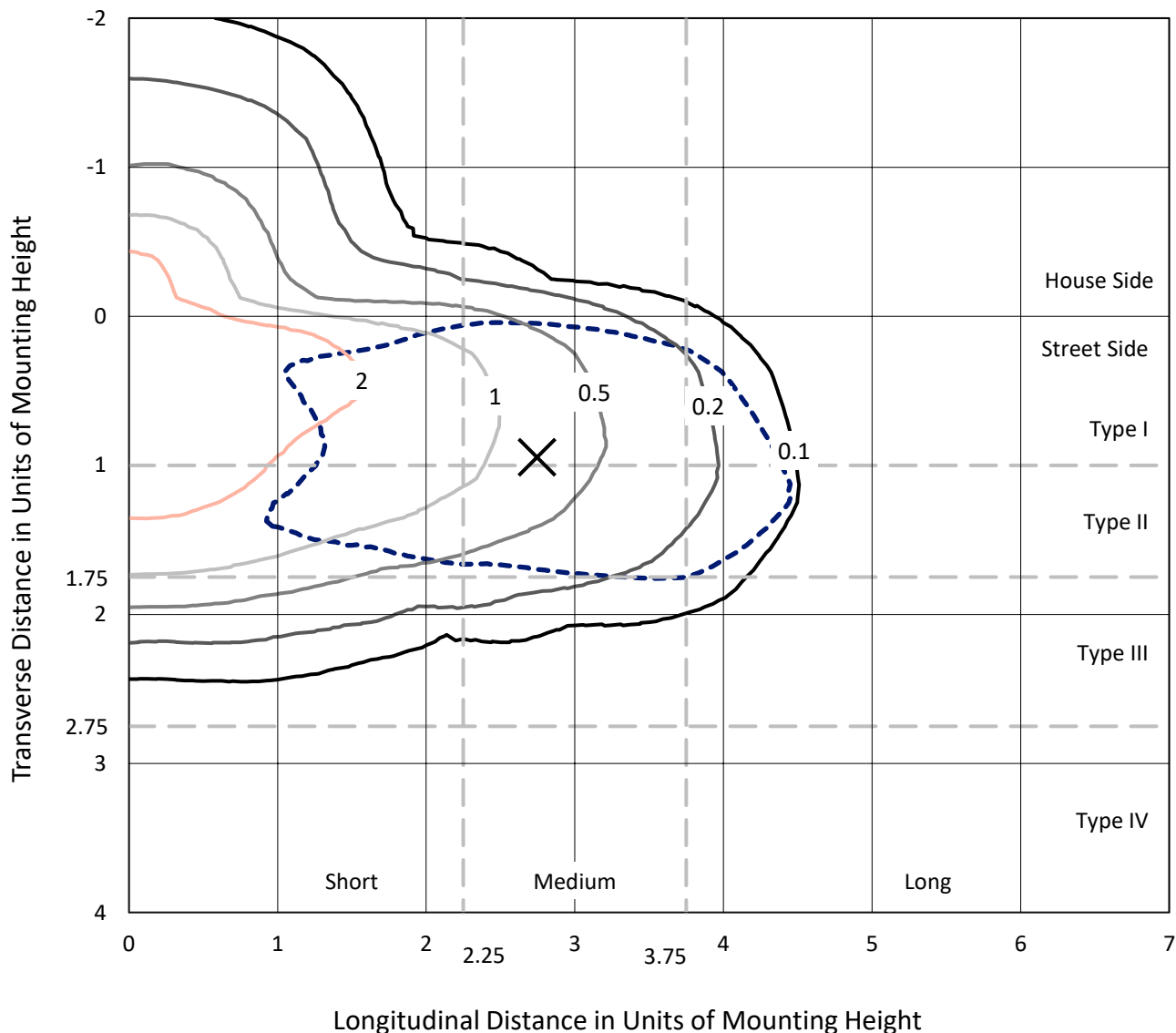
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

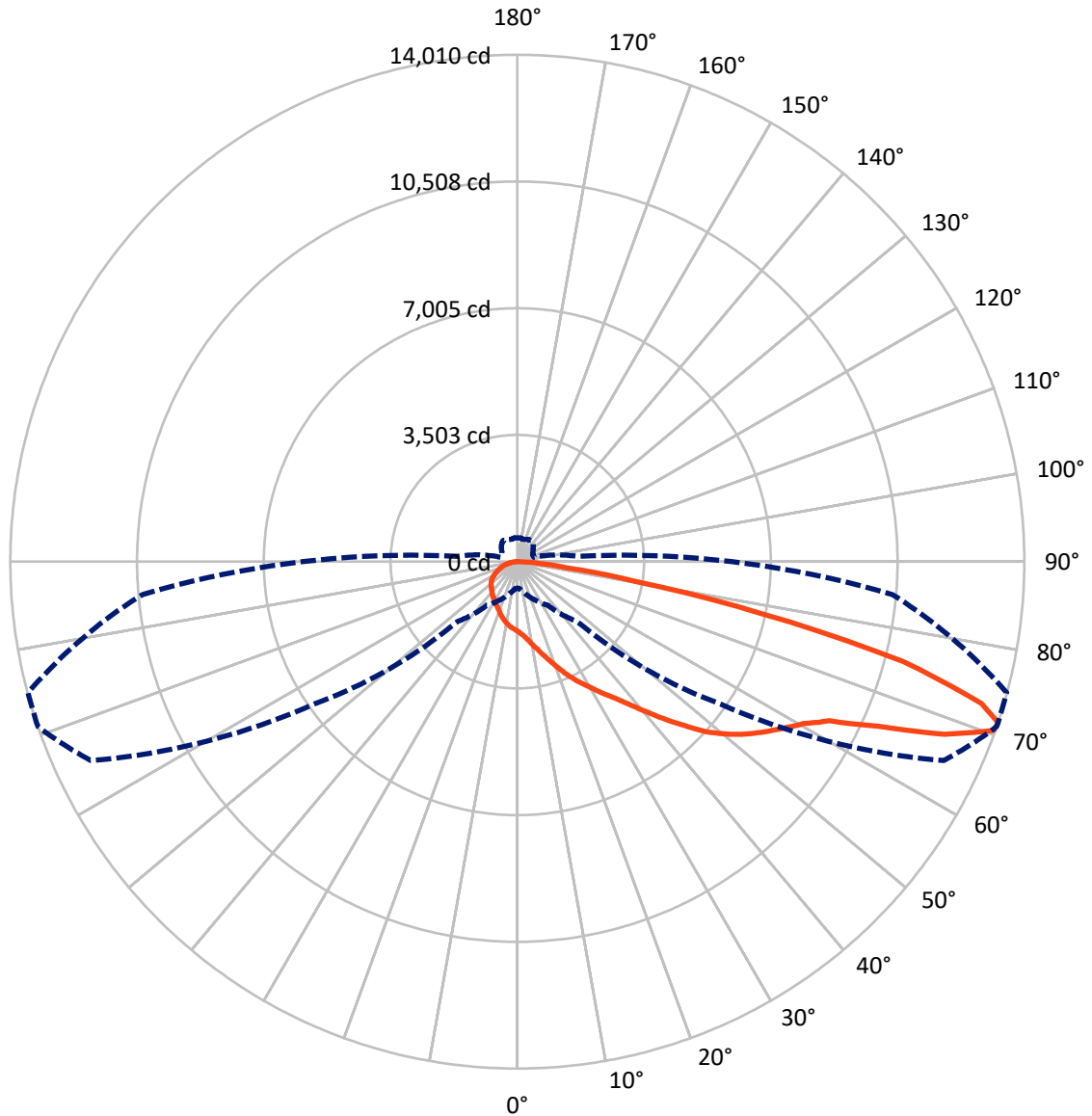
× Max cd
 - - - 1/2 Max cd



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	2813.7	0.0	2813.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	12831.3	0.0	12831.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	15645.0	0.0	15645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.2
10°-20°	626.4	4.0
20°-30°	1094.6	7.0
30°-40°	1628.1	10.4
40°-50°	2398.8	15.3
50°-60°	3358.4	21.5
60°-70°	3756.3	24.0
70°-80°	2294.5	14.7
80°-90°	295.2	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°	15645.0	100.0
0°-180°	15645.0	100.0

Coefficient of Utilization



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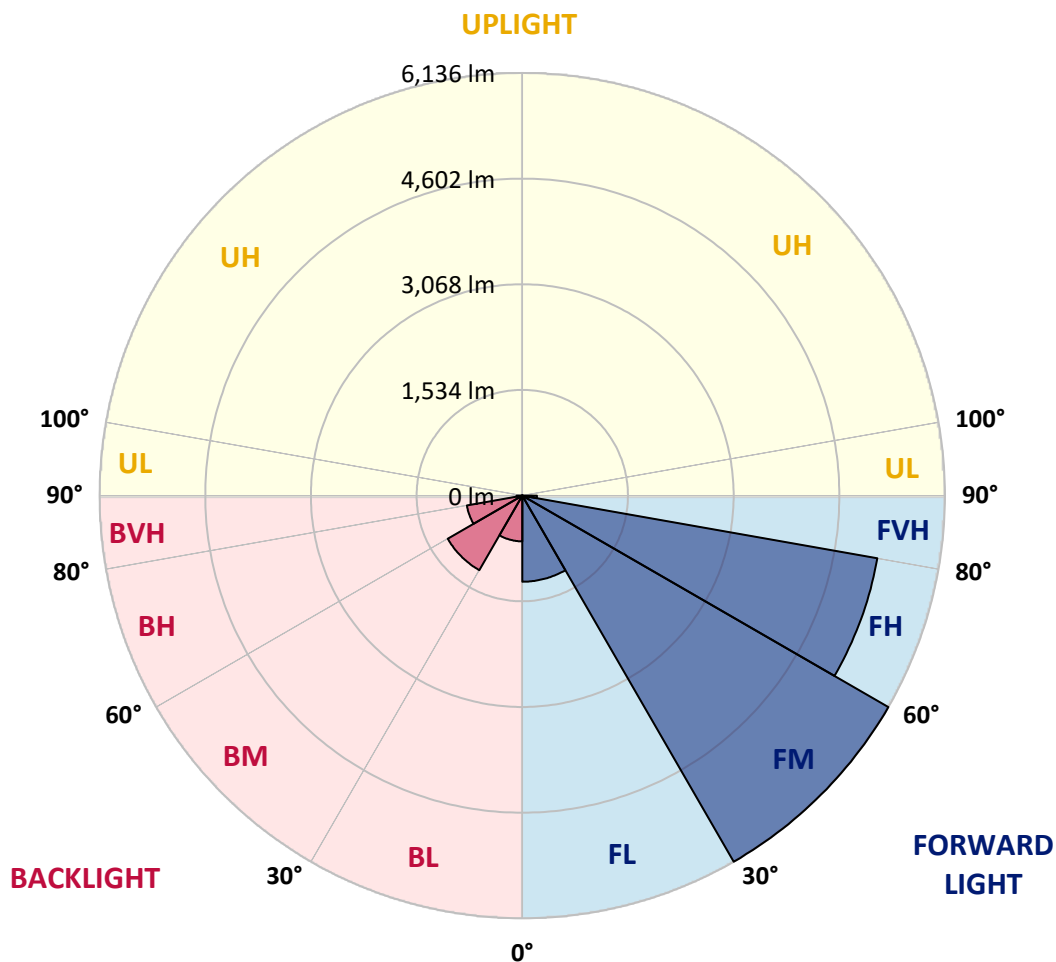
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.0	8.0			
FM	(30°-60°)	6135.7	39.2			
FH	(60°-80°)	5233.2	33.4			G3/7500
FVH	(80°-90°)	212.4	1.4			G2/225
BL	(0°-30°)	663.7	4.2	B2/1000		
BM	(30°-60°)	1249.7	8.0	B2/2500		
BH	(60°-80°)	817.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	82.8	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1
2.5°	2131.6	2121.3	2122.2	2107.6	2088.7	2068.0	2038.8	2013.0	1992.3	1980.3	1945.1
5°	2362.1	2351.8	2338.9	2307.1	2293.3	2242.6	2178.1	2119.6	2074.9	2050.0	1979.4
7.5°	2548.7	2546.1	2542.7	2524.6	2489.4	2418.8	2363.8	2262.3	2196.1	2148.8	2028.5
10°	2663.9	2668.2	2670.8	2674.2	2659.6	2622.6	2547.0	2418.8	2334.6	2274.4	2092.1
12.5°	2722.4	2726.7	2741.3	2773.1	2792.9	2788.6	2726.7	2601.1	2485.1	2405.9	2160.0
15°	2758.5	2765.4	2791.2	2833.3	2899.5	2941.7	2911.6	2795.5	2668.2	2574.5	2240.9
17.5°	2798.1	2805.8	2834.2	2894.4	2981.2	3072.4	3105.0	3005.3	2866.8	2755.1	2331.1
20°	2820.4	2830.7	2871.1	2950.3	3051.7	3184.1	3292.5	3240.0	3088.7	2964.9	2435.2
22.5°	2856.5	2865.1	2899.5	2983.8	3105.0	3271.0	3479.9	3468.8	3335.5	3175.5	2549.5
25°	2954.6	2968.3	2985.5	3036.2	3153.2	3359.6	3635.6	3713.0	3574.5	3395.7	2654.5
27.5°	3139.4	3150.6	3149.7	3156.6	3222.8	3436.1	3770.6	3954.6	3811.9	3618.4	2755.9
30°	3350.1	3354.4	3357.8	3342.4	3357.0	3514.3	3894.4	4193.6	4050.9	3847.1	2844.5
32.5°	3606.3	3614.9	3585.7	3546.2	3534.1	3630.4	3996.7	4432.7	4333.8	4079.3	2932.2
35°	3909.0	3931.4	3872.0	3802.4	3753.4	3797.2	4134.3	4676.9	4623.6	4375.9	3048.3
37.5°	4254.7	4282.2	4227.2	4090.5	4020.8	4032.8	4314.0	4978.7	4989.9	4713.9	3221.1
40°	4537.6	4573.7	4575.4	4382.0	4276.2	4289.9	4541.9	5303.7	5431.9	5131.8	3424.9
42.5°	4724.2	4759.4	4796.4	4682.9	4572.0	4650.2	4807.6	5656.3	5928.9	5639.1	3709.5
45°	4928.8	4960.7	4981.3	4929.7	4867.8	5070.7	5128.3	6031.2	6458.6	6205.8	4020.8
47.5°	5166.2	5201.4	5221.2	5172.2	5149.0	5439.6	5474.0	6381.2	7024.4	6756.1	4364.8
50°	5482.6	5509.3	5498.9	5468.0	5462.8	5722.5	5805.9	6708.8	7491.3	7348.5	4721.6
52.5°	5876.4	5908.2	5919.4	5875.6	5855.8	5924.6	6073.3	7007.2	7916.1	7857.6	5102.5
55°	6114.6	6165.3	6335.6	6404.4	6451.7	6186.0	6361.4	7336.5	8297.0	8394.2	5511.8
57.5°	5809.4	5874.7	6255.6	6599.6	7044.1	6839.5	6769.8	7680.5	8677.9	8914.4	6002.0
60°	5064.7	5079.3	5570.3	6204.0	7098.3	7679.6	7622.0	8227.3	9090.7	9438.9	6647.7
62.5°	3513.5	3544.4	4124.9	5136.1	6429.3	7982.3	9071.7	9171.5	9682.3	10224.0	7594.5
65°	1811.8	1771.4	2300.2	3228.0	4847.2	7263.4	10246.3	10907.6	10965.2	11451.9	8927.3
67.5°	1115.3	1133.3	1381.0	1884.9	2866.0	5278.8	10123.4	13028.9	12725.4	12959.3	10164.7
70°	837.5	859.9	1030.1	1289.8	1747.3	3018.2	8141.4	13543.1	13967.1	13906.9	10541.3
71°	728.3	751.5	928.7	1173.7	1467.8	2329.4	6859.3	13004.8	14010.0	13999.7	10399.4
72.5°	620.8	635.5	773.9	994.0	1237.4	1632.9	5153.3	11663.4	13412.4	13755.5	9892.9
75°	487.6	498.7	560.6	758.4	974.2	1002.6	2765.4	8744.1	11015.9	11669.5	8235.9
77.5°	397.3	405.0	436.8	563.2	751.5	710.3	1450.6	5691.6	6901.4	7559.2	4851.5
80°	315.6	324.2	343.1	381.8	563.2	506.5	692.2	2884.0	3333.8	3326.9	1936.5
82.5°	245.1	247.6	270.0	280.3	385.2	359.4	374.9	1221.0	1352.6	1397.3	699.1
85°	154.8	162.5	239.0	215.0	230.4	210.7	184.9	485.0	597.6	589.0	279.5
87.5°	47.3	49.9	80.8	91.1	102.3	92.0	67.9	142.7	174.6	189.2	69.7
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°	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1
2.5°	1931.3	1921.8	1888.3	1860.8	1835.0	1806.6	1782.5	1775.7	1769.6	1767.1	1766.2
5°	1949.4	1921.0	1854.8	1800.6	1757.6	1718.0	1693.1	1681.9	1670.7	1670.7	1674.2
7.5°	1975.1	1923.6	1821.2	1740.4	1686.2	1649.3	1631.2	1629.5	1632.1	1634.6	1635.5
10°	2003.5	1921.8	1772.2	1671.6	1623.5	1606.3	1607.1	1621.7	1635.5	1645.8	1647.5
12.5°	2031.0	1911.5	1714.6	1607.1	1576.2	1579.6	1603.7	1636.4	1663.0	1677.6	1678.5
15°	2062.0	1895.2	1645.0	1546.1	1535.7	1562.4	1607.1	1657.0	1697.4	1721.5	1724.1
17.5°	2087.8	1867.7	1571.9	1486.7	1499.6	1548.6	1610.6	1675.0	1724.1	1754.2	1759.3
20°	2117.0	1832.4	1496.2	1430.0	1467.0	1533.2	1603.7	1673.3	1724.1	1753.3	1760.2
22.5°	2140.2	1782.5	1424.0	1383.5	1437.7	1514.3	1580.5	1636.4	1677.6	1693.1	1703.4
25°	2149.7	1719.8	1356.0	1345.7	1414.5	1483.3	1528.0	1559.8	1572.7	1571.0	1575.3
27.5°	2144.5	1647.5	1297.6	1315.6	1385.3	1435.1	1457.5	1454.9	1431.7	1410.2	1420.5
30°	2123.0	1561.5	1248.5	1284.7	1347.4	1375.0	1371.5	1338.0	1294.1	1253.7	1256.3
32.5°	2084.4	1468.7	1203.0	1249.4	1294.1	1306.2	1282.9	1239.1	1176.3	1123.9	1116.1
35°	2051.7	1380.1	1162.6	1209.0	1240.8	1234.8	1212.4	1155.7	1098.9	1052.5	1044.8
37.5°	2046.5	1304.4	1123.9	1163.4	1181.5	1172.9	1145.4	1097.2	1076.6	1041.3	1037.0
40°	2074.0	1251.1	1084.3	1115.3	1123.9	1117.0	1086.9	1059.4	1078.3	1069.7	1069.7
42.5°	2148.8	1222.8	1049.1	1067.1	1074.0	1079.2	1057.7	1034.4	1057.7	1018.1	1005.2
45°	2267.5	1223.6	1017.2	1019.8	1040.5	1058.5	1043.9	1009.5	997.5	918.4	902.9
47.5°	2442.1	1252.8	991.4	975.1	1012.1	1042.2	1021.5	971.7	918.4	865.9	856.4
50°	2645.9	1305.3	968.2	928.7	974.2	1021.5	1006.1	947.6	892.6	860.7	854.7
52.5°	2872.0	1371.5	939.9	877.1	927.8	1012.1	1009.5	944.1	868.5	847.0	841.8
55°	3151.5	1436.9	904.6	816.9	886.5	1004.3	1000.0	915.8	863.3	847.8	846.1
57.5°	3476.5	1531.4	853.9	755.8	839.2	972.5	963.1	898.6	846.1	834.9	834.1
60°	4000.2	1678.5	781.6	699.9	791.1	916.6	928.7	869.3	818.6	816.0	815.2
62.5°	4688.9	1884.9	706.8	642.3	735.2	844.4	878.8	829.8	789.4	802.3	804.0
65°	5640.0	2058.6	629.4	593.3	673.3	774.8	831.5	792.8	756.7	781.6	781.6
67.5°	6259.9	2062.0	558.9	542.6	610.5	716.3	781.6	749.0	714.6	756.7	758.4
70°	6131.0	1806.6	500.5	489.3	549.5	653.5	726.6	700.8	661.2	699.1	685.3
71°	5922.9	1664.7	477.2	468.6	525.4	623.4	700.8	679.3	639.8	664.7	656.9
72.5°	5590.9	1445.5	439.4	441.1	489.3	585.6	664.7	642.3	602.8	616.5	614.0
75°	4725.9	1262.3	375.8	383.5	420.5	521.1	592.5	575.3	534.8	534.8	532.3
77.5°	2954.6	882.2	312.1	316.4	356.9	446.3	509.0	494.4	455.7	442.8	439.4
80°	1102.4	455.7	244.2	249.4	274.3	351.7	421.3	407.6	368.0	353.4	339.7
82.5°	417.0	228.7	179.7	175.4	202.1	268.3	330.2	313.9	282.9	247.6	237.3
85°	157.4	113.5	110.1	106.6	118.7	159.1	204.7	201.2	168.5	143.6	141.0
87.5°	41.3	37.0	43.0	31.8	33.5	30.1	31.0	12.9	6.0	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)