

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: P458883

Luminaire Tested: **GALN-SA4A-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16712 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

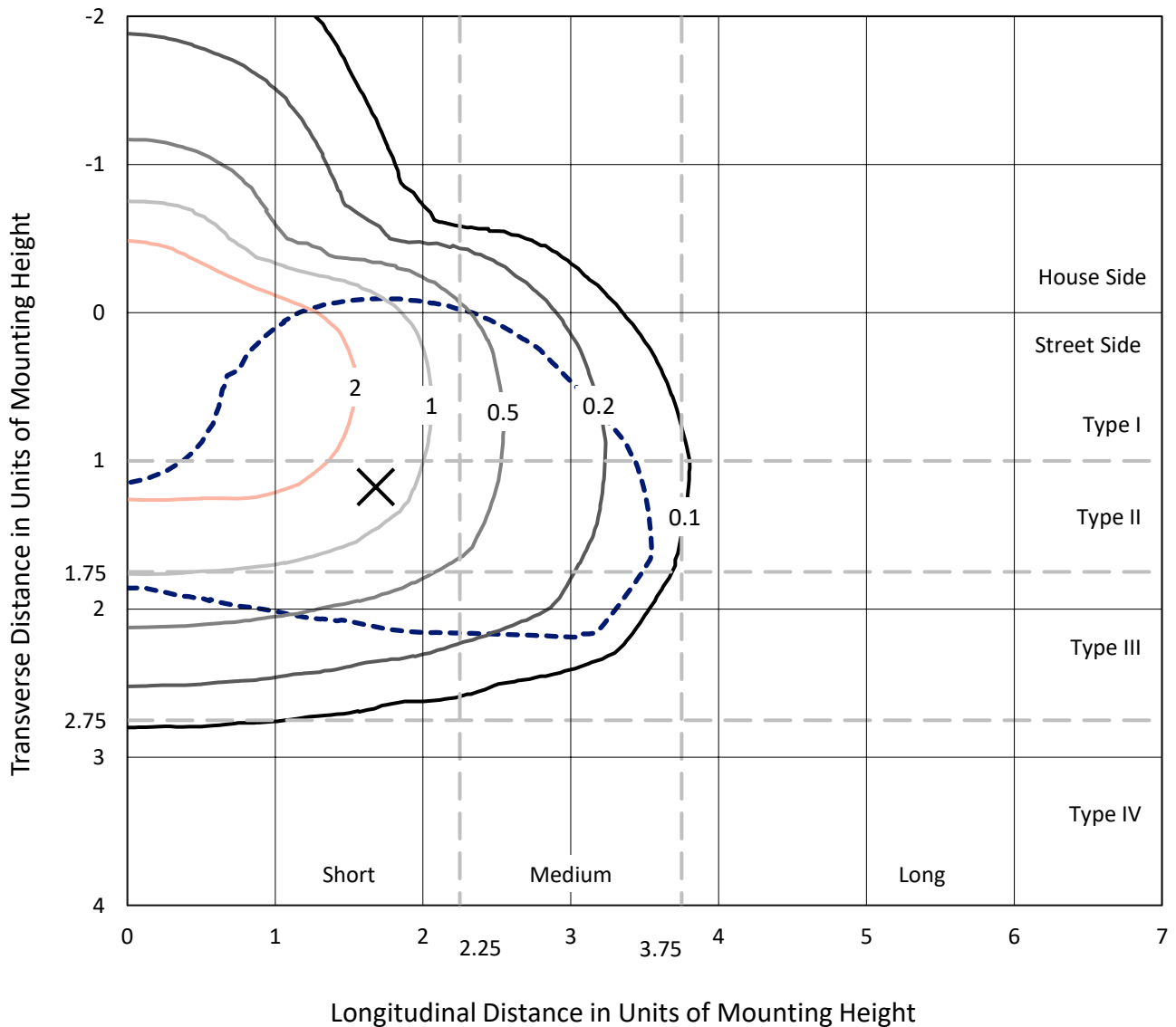
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

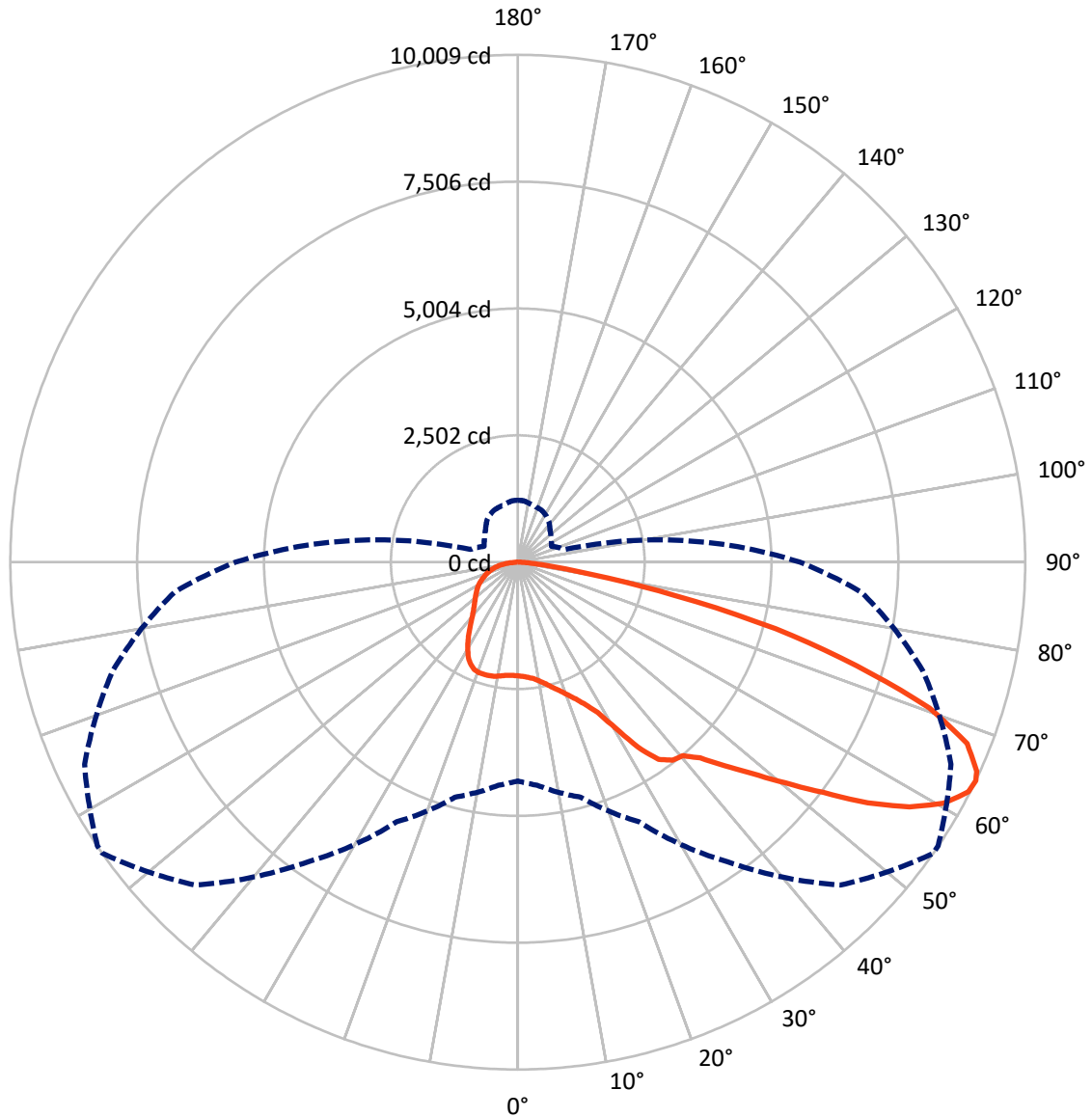
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4059.7	0.0	4059.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	12652.3	0.0	12652.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	16712.0	0.0	16712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.1	1.3
10°-20°	688.2	4.1
20°-30°	1225.2	7.3
30°-40°	1885.1	11.3
40°-50°	2672.3	16.0
50°-60°	3868.0	23.1
60°-70°	4003.0	24.0
70°-80°	1874.6	11.2
80°-90°	277.5	1.7
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°	16712.0	100.0
0°-180°	16712.0	100.0

Coefficient of Utilization



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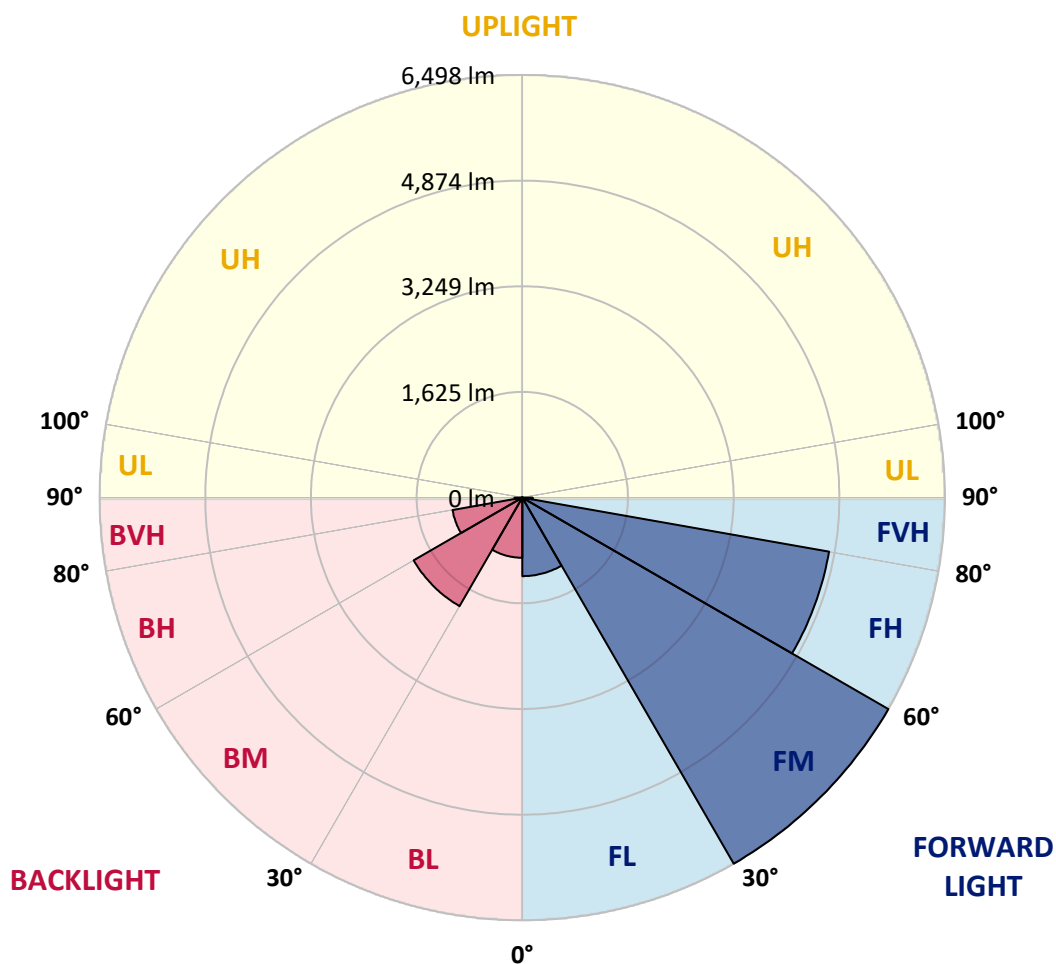
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.9	7.2			
FM	(30°-60°)	6498.1	38.9			
FH	(60°-80°)	4788.5	28.7			G2/5000
FVH	(80°-90°)	158.9	1.0			G2/225
BL	(0°-30°)	924.6	5.5	B2/1000		
BM	(30°-60°)	1927.3	11.5	B2/2500		
BH	(60°-80°)	1089.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	118.6	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2
2.5°	2267.4	2266.5	2269.3	2266.5	2268.3	2261.8	2259.0	2260.9	2258.1	2253.4	2245.0
5°	2295.3	2294.4	2295.3	2291.6	2293.5	2289.8	2283.2	2285.1	2280.4	2270.2	2258.1
7.5°	2342.9	2339.1	2339.1	2338.2	2334.5	2328.9	2324.2	2322.4	2317.7	2304.7	2286.0
10°	2404.3	2404.3	2405.3	2397.8	2402.5	2392.2	2387.6	2386.6	2370.8	2354.0	2327.9
12.5°	2485.4	2490.0	2487.2	2483.5	2481.7	2477.9	2462.1	2465.8	2448.1	2419.2	2387.6
15°	2586.0	2593.4	2588.8	2586.9	2582.3	2568.3	2561.8	2559.0	2535.7	2493.8	2451.8
17.5°	2719.2	2709.9	2706.2	2701.5	2681.9	2671.7	2660.5	2658.6	2638.2	2588.8	2523.6
20°	2835.6	2848.7	2841.2	2836.6	2817.0	2797.5	2789.1	2786.3	2768.6	2714.5	2610.2
22.5°	2974.4	2977.2	2980.0	2968.9	2959.5	2944.6	2929.7	2925.1	2918.6	2862.7	2735.0
25°	3122.6	3133.7	3124.4	3113.2	3102.1	3101.1	3115.1	3113.2	3110.5	3056.4	2900.9
27.5°	3363.8	3374.1	3376.9	3364.8	3321.9	3325.6	3357.3	3367.6	3410.4	3321.0	3114.2
30°	3499.8	3510.1	3533.4	3579.0	3647.0	3706.6	3783.0	3806.3	3847.3	3678.7	3367.6
32.5°	3583.7	3587.4	3629.3	3714.1	3918.1	4140.7	4348.5	4356.9	4383.0	4146.3	3599.5
35°	3716.0	3718.8	3752.3	3845.4	4084.9	4455.6	4777.0	4787.2	4765.8	4291.7	3707.6
37.5°	3879.0	3886.4	3907.9	3985.2	4271.2	4719.2	4954.9	4947.5	4757.4	4407.2	3898.5
40°	4116.5	4116.5	4091.4	4195.7	4467.7	4870.2	5017.3	5004.3	4954.0	4741.6	4189.2
42.5°	4326.1	4322.4	4382.0	4452.8	4713.7	5103.0	5279.1	5300.5	5383.4	5161.7	4519.9
45°	4599.1	4615.8	4649.4	4777.9	5131.9	5500.8	5728.1	5748.6	5866.0	5656.4	4906.5
47.5°	4874.8	4880.4	4985.7	5157.1	5649.9	6040.2	6226.5	6260.0	6367.2	6234.9	5322.9
50°	5070.4	5123.5	5292.1	5562.3	6183.6	6697.9	6843.2	6883.2	7072.3	6864.6	5808.2
52.5°	5277.2	5329.4	5535.3	5947.0	6796.6	7370.4	7549.3	7576.3	7772.9	7501.8	6304.7
55°	5454.2	5502.7	5736.5	6288.0	7284.7	8057.0	8381.2	8349.5	8443.6	7992.7	6687.6
57.5°	5483.1	5522.2	5816.6	6506.0	7651.8	8645.7	9110.6	9129.2	9020.2	8359.7	7003.4
60°	5259.5	5339.7	5677.8	6482.7	7816.7	9055.6	9654.6	9667.6	9358.4	8547.9	7129.2
62.5°	4863.6	4855.2	5264.2	6108.2	7585.6	9148.8	9975.1	9961.1	9490.7	8457.6	7007.1
64°	4316.8	4417.4	4799.4	5648.0	7213.0	9005.3	10008.6	10001.1	9427.3	8269.4	6799.4
65°	3983.3	3977.7	4355.0	5271.7	6842.3	8789.2	9949.0	9938.7	9295.0	8100.8	6638.2
67.5°	2875.7	2888.7	3261.4	4068.1	5562.3	7944.3	9560.5	9522.3	8773.4	7541.8	6025.3
70°	1742.0	1749.5	2042.0	2698.7	3992.6	6422.1	8617.8	8619.7	7975.0	6707.2	5128.2
72.5°	917.6	937.1	1054.5	1532.4	2424.8	4505.9	6991.3	7157.1	6846.9	5724.4	4051.3
75°	510.5	513.3	596.2	755.5	1237.1	2521.7	5254.9	5302.4	5420.7	4607.5	2995.9
77.5°	389.4	395.0	421.1	488.1	673.5	1169.1	3180.3	3418.8	3820.3	3248.3	1709.4
80°	315.8	321.4	343.7	383.8	448.1	554.3	1477.4	1606.0	2044.8	1442.0	667.0
82.5°	245.9	242.2	271.1	297.2	326.0	327.9	606.4	670.7	832.8	620.4	288.8
85°	182.6	182.6	205.9	200.3	210.5	191.9	267.4	295.3	333.5	263.6	134.1
87.5°	72.7	80.1	135.1	121.1	94.1	75.5	98.7	104.3	115.5	103.4	55.9
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°	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2	2242.2
2.5°	2246.0	2248.8	2242.2	2237.6	2235.7	2232.9	2230.1	2231.1	2234.8	2238.5	2237.6
5°	2257.2	2258.1	2246.9	2241.3	2237.6	2233.9	2233.9	2236.7	2244.1	2249.7	2249.7
7.5°	2285.1	2285.1	2269.3	2259.0	2253.4	2246.9	2245.0	2246.0	2251.6	2259.0	2259.9
10°	2328.9	2325.2	2304.7	2288.8	2278.6	2262.7	2248.8	2241.3	2244.1	2248.8	2248.8
12.5°	2382.0	2371.7	2345.6	2324.2	2299.1	2269.3	2240.4	2225.5	2224.5	2229.2	2227.3
15°	2438.8	2427.6	2391.3	2352.2	2308.4	2264.6	2230.1	2208.7	2191.9	2187.3	2197.5
17.5°	2504.9	2481.7	2431.4	2377.3	2312.1	2255.3	2201.3	2157.5	2127.7	2119.3	2122.1
20°	2585.1	2554.3	2486.3	2401.5	2309.3	2221.8	2137.9	2079.2	2030.8	2015.9	2017.7
22.5°	2695.9	2642.8	2543.1	2413.7	2286.0	2158.4	2042.0	1965.6	1906.9	1883.6	1897.6
25°	2821.7	2763.9	2597.2	2410.9	2225.5	2056.9	1928.3	1828.6	1775.5	1741.1	1748.5
27.5°	2994.9	2892.5	2654.9	2385.7	2138.8	1933.0	1783.9	1689.8	1641.4	1623.7	1632.1
30°	3216.6	3059.2	2717.3	2317.7	2001.9	1776.5	1638.6	1577.1	1548.2	1525.9	1533.3
32.5°	3376.9	3176.6	2731.3	2203.1	1853.8	1633.9	1539.9	1494.2	1462.5	1441.1	1445.8
35°	3491.5	3276.3	2724.8	2062.5	1699.2	1516.6	1461.6	1424.3	1373.1	1326.5	1318.1
37.5°	3645.2	3401.1	2677.3	1908.8	1546.4	1437.4	1398.3	1329.3	1255.7	1193.3	1190.5
40°	3880.8	3547.4	2575.7	1728.0	1416.0	1378.7	1331.2	1241.8	1162.6	1112.3	1108.5
42.5°	4124.0	3682.4	2437.9	1538.0	1308.8	1317.2	1259.5	1171.0	1122.5	1089.9	1086.2
45°	4421.1	3828.7	2288.8	1373.1	1229.6	1259.5	1197.0	1145.8	1116.9	1095.5	1089.9
47.5°	4742.5	3978.7	2121.1	1225.0	1162.6	1206.4	1171.0	1147.7	1131.8	1116.9	1110.4
50°	5089.1	4146.3	1963.7	1105.8	1102.0	1151.4	1168.2	1159.8	1150.5	1145.8	1140.2
52.5°	5469.1	4317.7	1831.4	1021.9	1048.9	1112.3	1169.1	1175.6	1175.6	1172.8	1169.1
55°	5726.3	4437.0	1697.3	953.9	994.9	1080.6	1167.2	1192.4	1201.7	1198.0	1194.2
57.5°	5916.3	4502.2	1528.7	895.2	949.3	1049.9	1157.0	1194.2	1203.6	1208.2	1206.4
60°	5955.4	4441.6	1307.9	833.7	899.9	1005.1	1119.7	1166.3	1178.4	1207.3	1210.1
62.5°	5779.3	4255.3	1088.1	773.2	839.3	937.1	1069.4	1134.6	1158.9	1203.6	1208.2
64°	5563.2	4046.7	966.0	735.0	800.2	898.9	1044.3	1126.2	1157.9	1217.5	1221.3
65°	5404.9	3894.8	889.6	710.8	775.1	873.8	1030.3	1129.0	1166.3	1239.0	1244.6
67.5°	4821.7	3372.2	735.9	653.9	715.4	830.9	1033.1	1152.3	1164.4	1247.3	1246.4
70°	3989.8	2684.7	616.7	601.8	657.7	796.5	1021.9	1115.1	1116.0	1171.0	1157.9
72.5°	2987.5	1984.2	534.7	547.8	593.4	714.5	965.1	1064.8	1048.9	1056.4	1043.3
75°	2052.2	1312.6	460.2	490.0	526.3	631.6	885.0	967.0	941.8	932.5	923.2
77.5°	1095.5	725.7	382.9	433.2	457.4	545.9	772.3	851.4	825.4	789.0	776.9
80°	443.4	341.9	308.3	358.6	372.6	439.7	642.8	692.1	672.6	609.2	588.7
82.5°	222.6	204.9	242.2	282.3	283.2	313.9	477.9	524.5	480.7	403.4	385.7
85°	116.4	120.2	166.7	198.4	175.1	169.5	286.9	317.7	291.6	253.4	228.2
87.5°	41.9	48.4	87.6	86.6	61.5	32.6	63.3	30.7	16.8	10.2	13.0
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)