

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: P452996

Luminaire Tested: **GALN-SA4A-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452996
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-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15003 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

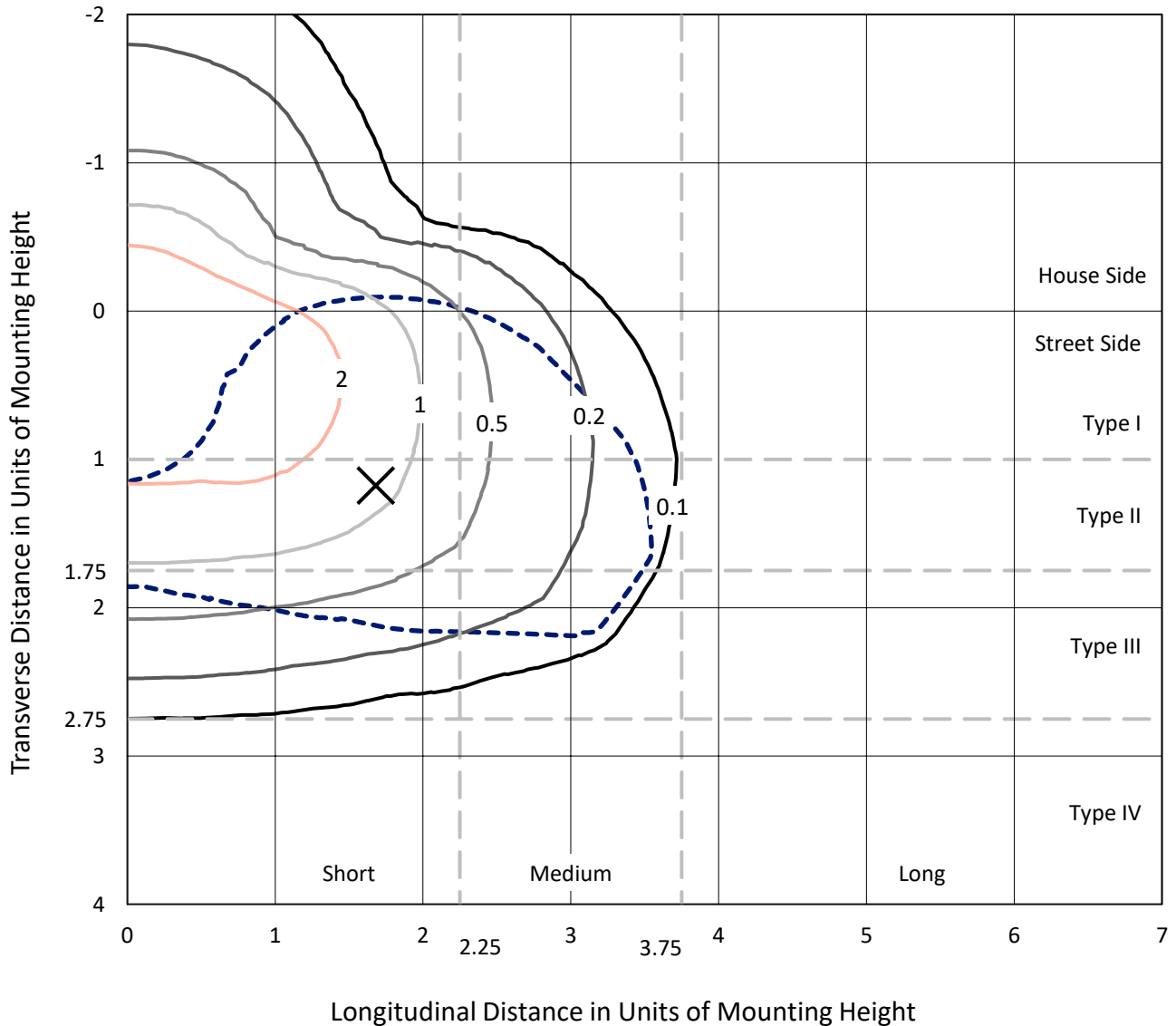
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

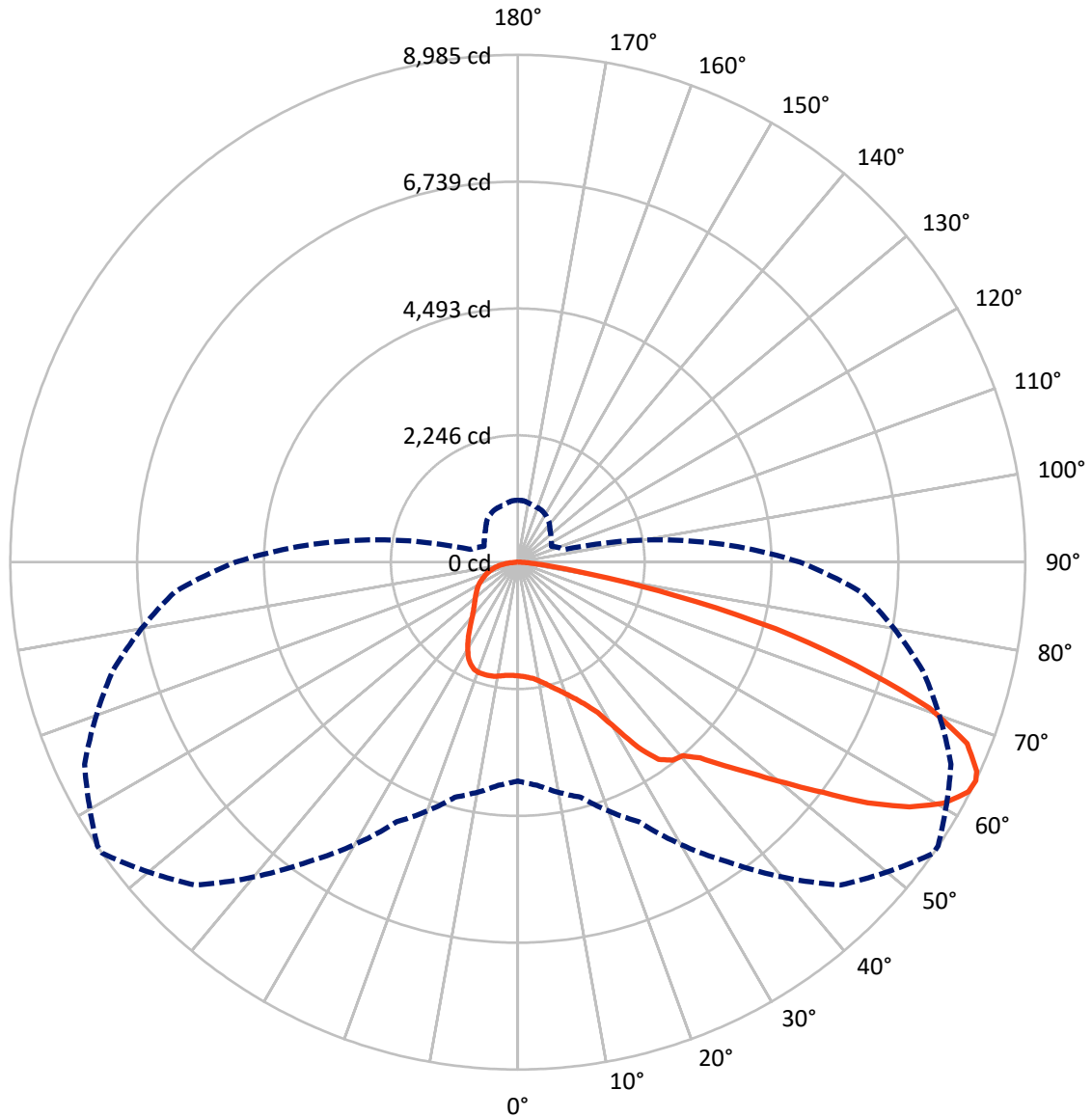
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	3644.5	0.0	3644.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	11358.5	0.0	11358.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	15003.0	0.0	15003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.3
10°-20°	617.8	4.1
20°-30°	1099.9	7.3
30°-40°	1692.3	11.3
40°-50°	2399.0	16.0
50°-60°	3472.5	23.1
60°-70°	3593.6	24.0
70°-80°	1682.9	11.2
80°-90°	249.1	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°	15003.0	100.0
0°-180°	15003.0	100.0

Coefficient of Utilization



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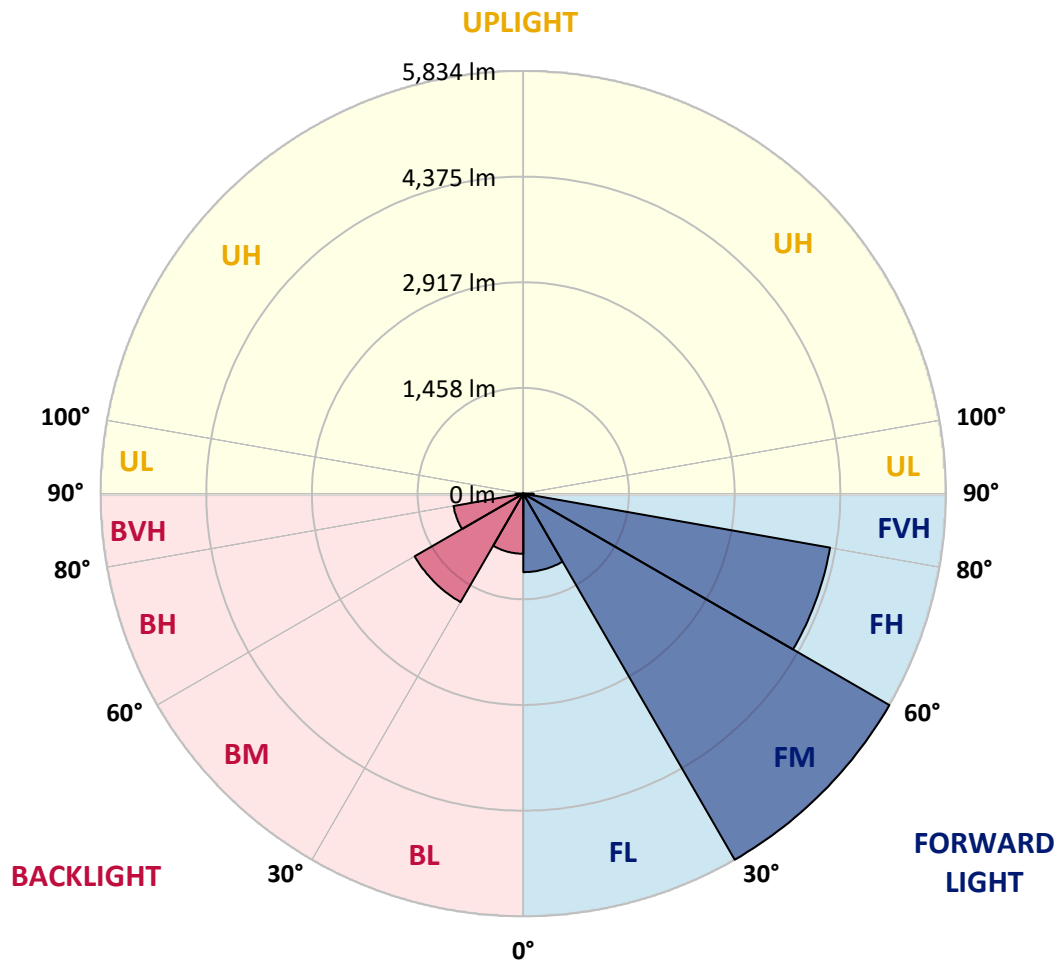
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1083.5	7.2			
FM	(30°-60°)	5833.6	38.9			
FH	(60°-80°)	4298.8	28.7			G2/5000
FVH	(80°-90°)	142.6	1.0			G2/225
BL	(0°-30°)	830.1	5.5	B2/1000		
BM	(30°-60°)	1730.2	11.5	B2/2500		
BH	(60°-80°)	977.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	106.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9
2.5°	2035.5	2034.7	2037.2	2034.7	2036.4	2030.5	2028.0	2029.7	2027.2	2023.0	2015.5
5°	2060.6	2059.8	2060.6	2057.3	2058.9	2055.6	2049.7	2051.4	2047.2	2038.0	2027.2
7.5°	2103.3	2099.9	2099.9	2099.1	2095.7	2090.7	2086.5	2084.9	2080.7	2069.0	2052.3
10°	2158.5	2158.5	2159.3	2152.6	2156.8	2147.6	2143.4	2142.6	2128.4	2113.3	2089.9
12.5°	2231.2	2235.4	2232.9	2229.5	2227.9	2224.5	2210.3	2213.7	2197.8	2171.8	2143.4
15°	2321.5	2328.2	2324.0	2322.4	2318.2	2305.7	2299.8	2297.3	2276.4	2238.7	2201.1
17.5°	2441.1	2432.8	2429.4	2425.2	2407.7	2398.5	2388.4	2386.8	2368.4	2324.0	2265.5
20°	2545.7	2557.4	2550.7	2546.5	2528.9	2511.4	2503.9	2501.3	2485.5	2436.9	2343.3
22.5°	2670.3	2672.8	2675.3	2665.3	2656.9	2643.5	2630.1	2626.0	2620.1	2569.9	2455.3
25°	2803.2	2813.3	2804.9	2794.9	2784.8	2784.0	2796.6	2794.9	2792.4	2743.9	2604.2
27.5°	3019.8	3029.0	3031.6	3020.7	2982.2	2985.6	3014.0	3023.2	3061.7	2981.4	2795.7
30°	3141.9	3151.1	3172.0	3213.0	3274.1	3327.6	3396.2	3417.1	3453.9	3302.5	3023.2
32.5°	3217.2	3220.6	3258.2	3334.3	3517.4	3717.3	3903.8	3911.3	3934.7	3722.3	3231.4
35°	3336.0	3338.5	3368.6	3452.2	3667.1	4000.0	4288.5	4297.7	4278.5	3852.8	3328.4
37.5°	3482.3	3489.0	3508.2	3577.6	3834.4	4236.6	4448.2	4441.5	4270.9	3956.5	3499.9
40°	3695.6	3695.6	3673.0	3766.6	4010.8	4372.1	4504.3	4492.5	4447.4	4256.7	3760.8
42.5°	3883.7	3880.4	3933.9	3997.5	4231.6	4581.2	4739.3	4758.5	4832.9	4633.9	4057.7
45°	4128.8	4143.8	4173.9	4289.3	4607.1	4938.3	5142.3	5160.7	5266.1	5078.0	4404.7
47.5°	4376.3	4381.3	4475.8	4629.7	5072.1	5422.5	5589.8	5619.9	5716.0	5597.3	4778.6
50°	4551.9	4599.6	4751.0	4993.5	5551.3	6012.9	6143.4	6179.3	6349.1	6162.6	5214.3
52.5°	4737.6	4784.4	4969.2	5338.9	6101.6	6616.7	6777.3	6801.5	6978.0	6734.6	5660.0
55°	4896.5	4940.0	5149.9	5645.0	6539.8	7233.1	7524.1	7495.7	7580.1	7175.4	6003.7
57.5°	4922.4	4957.5	5221.8	5840.6	6869.3	7761.6	8178.9	8195.6	8097.8	7504.9	6287.2
60°	4721.7	4793.6	5097.2	5819.7	7017.3	8129.6	8667.3	8679.0	8401.4	7673.8	6400.1
62.5°	4366.3	4358.7	4725.9	5483.6	6809.9	8213.2	8955.0	8942.4	8520.1	7592.7	6290.6
64°	3875.4	3965.7	4308.6	5070.4	6475.4	8084.4	8985.1	8978.4	8463.3	7423.7	6104.1
65°	3576.0	3571.0	3909.7	4732.6	6142.5	7890.4	8931.6	8922.4	8344.5	7272.4	5959.4
67.5°	2581.6	2593.3	2927.9	3652.1	4993.5	7131.9	8582.8	8548.6	7876.2	6770.6	5409.1
70°	1563.9	1570.6	1833.1	2422.7	3584.3	5765.4	7736.5	7738.2	7159.5	6021.3	4603.8
72.5°	823.7	841.3	946.7	1375.7	2176.9	4045.1	6276.4	6425.2	6146.7	5139.0	3637.0
75°	458.3	460.8	535.2	678.2	1110.6	2263.8	4717.5	4760.2	4866.4	4136.3	2689.5
77.5°	349.6	354.6	378.0	438.2	604.6	1049.5	2855.1	3069.2	3429.6	2916.1	1534.6
80°	283.5	288.5	308.6	344.6	402.3	497.6	1326.4	1441.8	1835.7	1294.6	598.8
82.5°	220.8	217.4	243.4	266.8	292.7	294.4	544.4	602.1	747.6	557.0	259.2
85°	163.9	163.9	184.8	179.8	189.0	172.3	240.0	265.1	299.4	236.7	120.4
87.5°	65.2	71.9	121.3	108.7	84.5	67.7	88.6	93.7	103.7	92.8	50.2
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°	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9	2012.9
2.5°	2016.3	2018.8	2012.9	2008.8	2007.1	2004.6	2002.1	2002.9	2006.3	2009.6	2008.8
5°	2026.3	2027.2	2017.1	2012.1	2008.8	2005.4	2005.4	2007.9	2014.6	2019.6	2019.6
7.5°	2051.4	2051.4	2037.2	2028.0	2023.0	2017.1	2015.5	2016.3	2021.3	2028.0	2028.8
10°	2090.7	2087.4	2069.0	2054.8	2045.6	2031.3	2018.8	2012.1	2014.6	2018.8	2018.8
12.5°	2138.4	2129.2	2105.8	2086.5	2064.0	2037.2	2011.3	1997.9	1997.1	2001.2	1999.6
15°	2189.4	2179.4	2146.8	2111.6	2072.3	2033.0	2002.1	1982.8	1967.8	1963.6	1972.8
17.5°	2248.8	2227.9	2182.7	2134.2	2075.7	2024.7	1976.2	1936.8	1910.1	1902.6	1905.1
20°	2320.7	2293.1	2232.1	2156.0	2073.2	1994.6	1919.3	1866.6	1823.1	1809.7	1811.4
22.5°	2420.2	2372.6	2283.1	2166.8	2052.3	1937.7	1833.1	1764.6	1711.9	1691.0	1703.5
25°	2533.1	2481.3	2331.6	2164.3	1997.9	1846.5	1731.1	1641.6	1594.0	1563.0	1569.7
27.5°	2688.7	2596.7	2383.4	2141.7	1920.1	1735.3	1601.5	1517.0	1473.5	1457.7	1465.2
30°	2887.7	2746.4	2439.5	2080.7	1797.2	1594.8	1471.0	1415.8	1389.9	1369.8	1376.5
32.5°	3031.6	2851.7	2452.0	1977.8	1664.2	1466.9	1382.4	1341.4	1313.0	1293.7	1297.9
35°	3134.4	2941.2	2446.1	1851.5	1525.4	1361.5	1312.1	1278.7	1232.7	1190.9	1183.4
37.5°	3272.4	3053.3	2403.5	1713.6	1388.2	1290.4	1255.3	1193.4	1127.3	1071.3	1068.8
40°	3484.0	3184.6	2312.3	1551.3	1271.2	1237.7	1195.1	1114.8	1043.7	998.5	995.2
42.5°	3702.3	3305.9	2188.6	1380.7	1175.0	1182.5	1130.7	1051.2	1007.7	978.5	975.1
45°	3969.0	3437.2	2054.8	1232.7	1103.9	1130.7	1074.6	1028.6	1002.7	983.5	978.5
47.5°	4257.6	3571.8	1904.2	1099.7	1043.7	1083.0	1051.2	1030.3	1016.1	1002.7	996.9
50°	4568.7	3722.3	1762.9	992.7	989.3	1033.7	1048.7	1041.2	1032.8	1028.6	1023.6
52.5°	4909.9	3876.2	1644.1	917.4	941.7	998.5	1049.5	1055.4	1055.4	1052.9	1049.5
55°	5140.7	3983.2	1523.7	856.4	893.2	970.1	1047.9	1070.5	1078.8	1075.5	1072.1
57.5°	5311.3	4041.8	1372.4	803.7	852.2	942.5	1038.7	1072.1	1080.5	1084.7	1083.0
60°	5346.4	3987.4	1174.2	748.5	807.9	902.4	1005.2	1047.0	1057.9	1083.8	1086.3
62.5°	5188.3	3820.2	976.8	694.1	753.5	841.3	960.1	1018.6	1040.3	1080.5	1084.7
64°	4994.3	3632.8	867.2	659.8	718.4	807.0	937.5	1011.1	1039.5	1093.0	1096.4
65°	4852.2	3496.5	798.7	638.1	695.8	784.4	924.9	1013.6	1047.0	1112.3	1117.3
67.5°	4328.6	3027.4	660.7	587.1	642.3	746.0	927.4	1034.5	1045.4	1119.8	1119.0
70°	3581.8	2410.2	553.6	540.2	590.4	715.0	917.4	1001.0	1001.9	1051.2	1039.5
72.5°	2682.0	1781.3	480.0	491.7	532.7	641.4	866.4	955.9	941.7	948.4	936.6
75°	1842.3	1178.3	413.1	439.9	472.5	567.0	794.5	868.1	845.5	837.1	828.8
77.5°	983.5	651.5	343.7	388.9	410.6	490.1	693.3	764.4	741.0	708.3	697.5
80°	398.1	306.9	276.8	322.0	334.5	394.7	577.0	621.4	603.8	546.9	528.5
82.5°	199.9	184.0	217.4	253.4	254.2	281.8	429.0	470.8	431.5	362.1	346.2
85°	104.5	107.9	149.7	178.1	157.2	152.2	257.6	285.2	261.8	227.5	204.9
87.5°	37.6	43.5	78.6	77.8	55.2	29.3	56.9	27.6	15.1	9.2	11.7
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)