

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: P652250

Luminaire Tested: **GALN-SA2B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8400.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

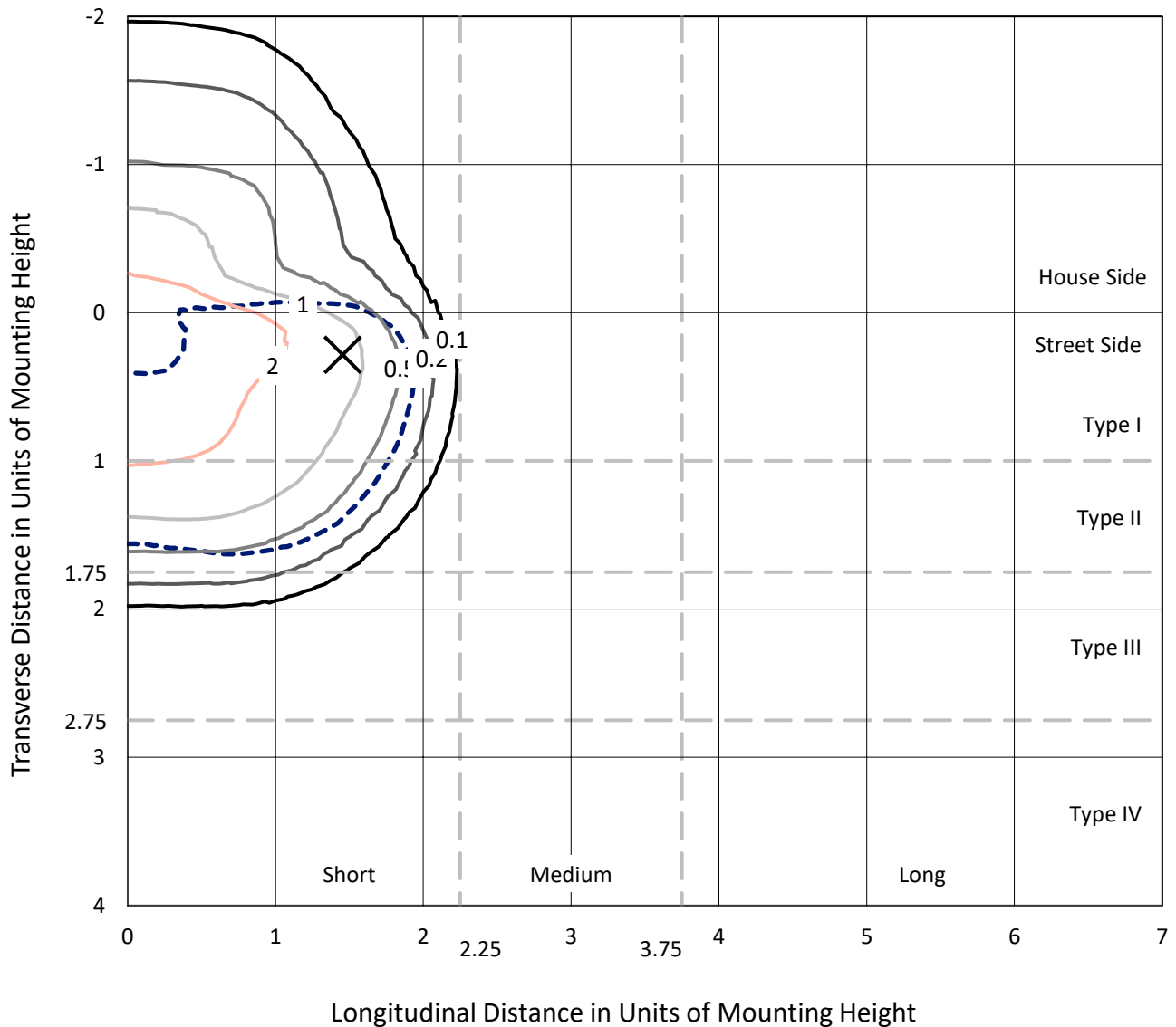
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

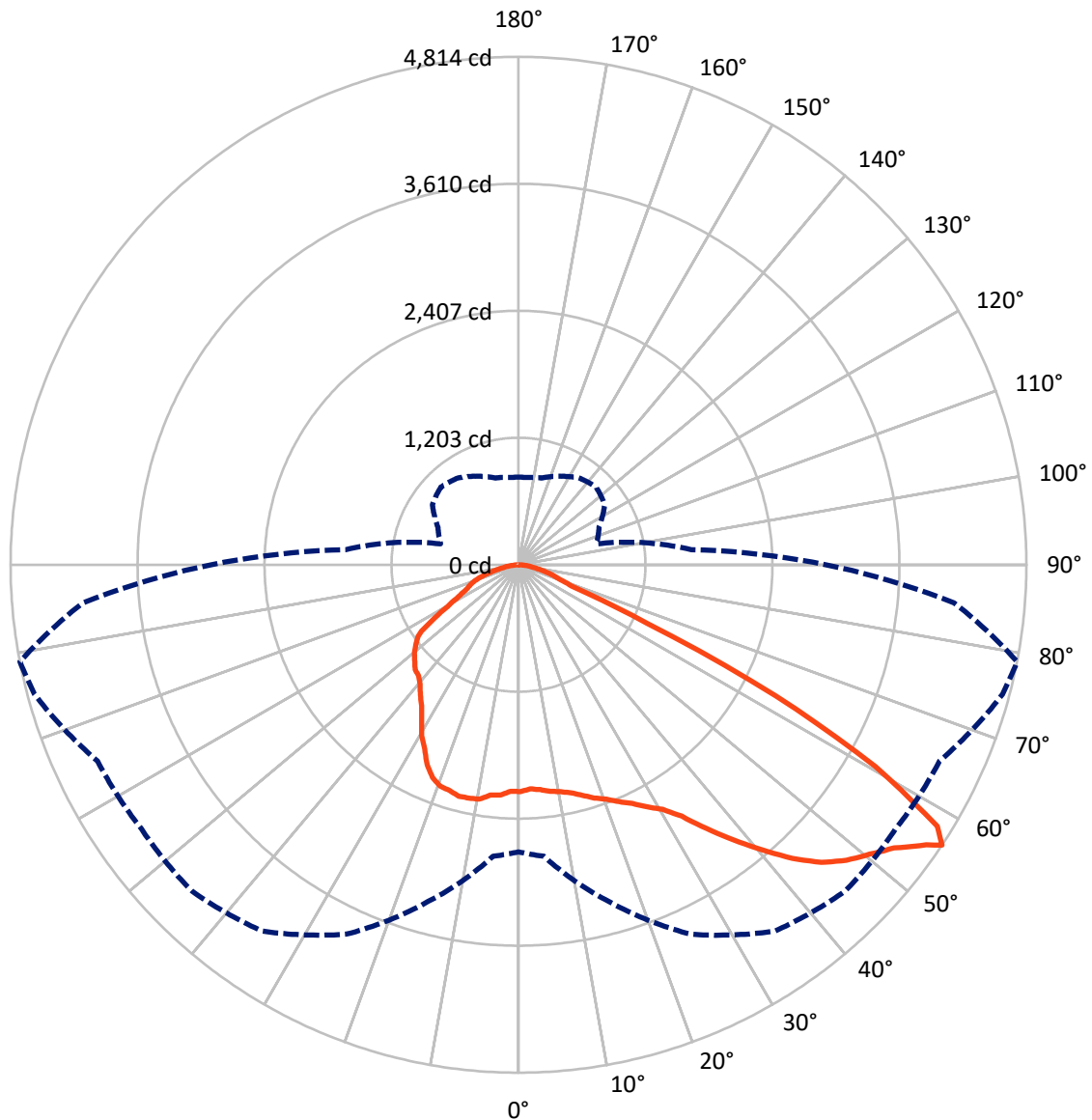
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2480.9	0.0	2480.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	5919.8	0.0	5919.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	8400.8	0.0	8400.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	2.3
10°-20°	534.8	6.4
20°-30°	915.0	10.9
30°-40°	1402.3	16.7
40°-50°	1895.2	22.6
50°-60°	2176.7	25.9
60°-70°	992.2	11.8
70°-80°	244.6	2.9
80°-90°	44.5	0.5
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°	8400.8	100.0
0°-180°	8400.8	100.0

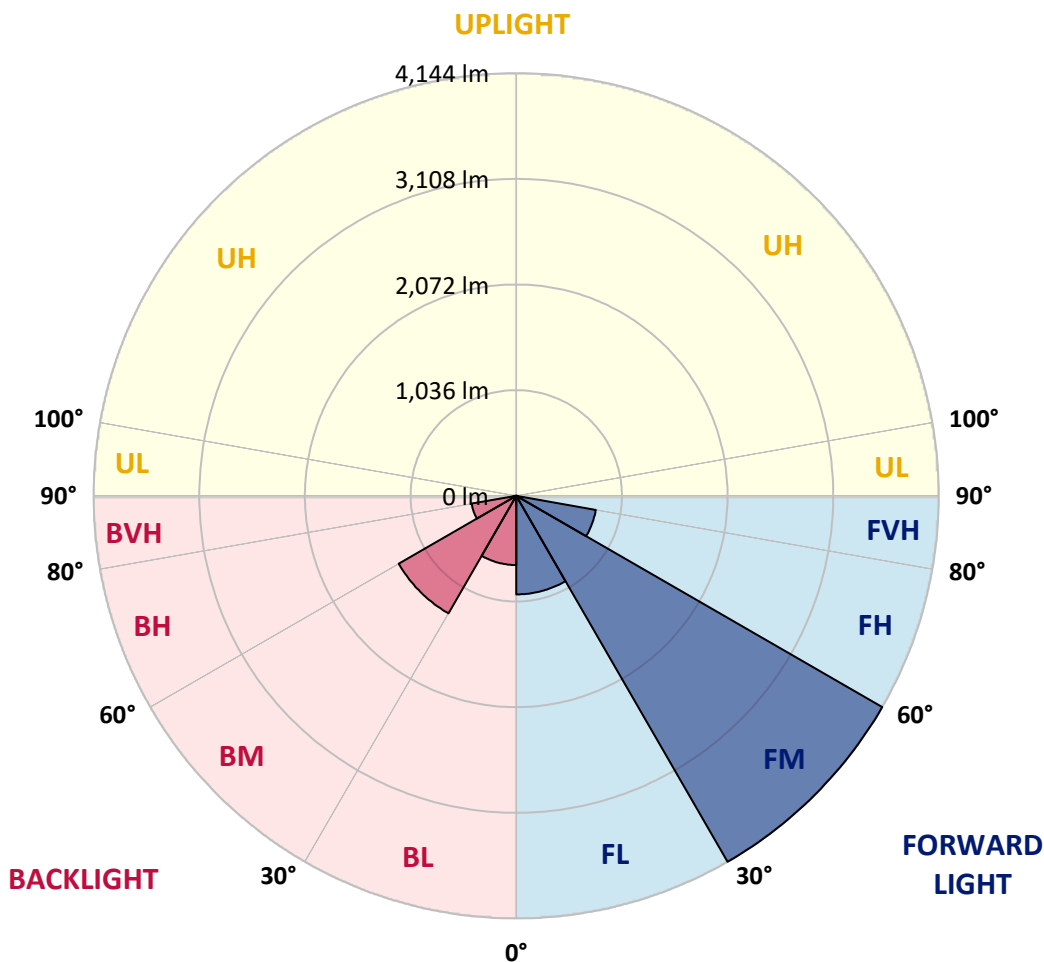


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.6	11.5			
FM (30°-60°)	4143.5	49.3			
FH (60°-80°)	792.0	9.4			G1/1800
FVH (80°-90°)	17.8	0.2			G1/100
BL (0°-30°)	678.6	8.1	B2/1000		
BM (30°-60°)	1330.7	15.8	B2/2500		
BH (60°-80°)	444.8	5.3	B1/500		G1/500
BVH (80°-90°)	26.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2044.8	2039.5	2052.1	2061.5	2073.1	2087.7	2095.0	2099.2	2135.8	2126.4	2154.6
5°	2000.8	1987.2	1996.6	2003.9	2023.9	2041.6	2061.5	2092.9	2126.4	2141.0	2175.6
7.5°	1962.1	1954.7	1952.7	1957.9	1985.1	2008.1	2042.7	2088.7	2143.1	2167.2	2187.1
10°	1898.3	1887.8	1903.5	1938.0	1945.4	1993.5	2033.3	2099.2	2146.3	2188.1	2246.7
12.5°	1870.0	1859.5	1862.7	1882.6	1933.9	1979.9	2027.0	2101.3	2200.7	2217.5	2295.9
15°	1915.0	1904.5	1907.7	1902.4	1951.6	1975.7	2050.0	2143.1	2238.4	2266.7	2350.3
17.5°	2017.6	2018.7	2005.0	1993.5	1982.0	2033.3	2084.5	2168.3	2253.0	2324.2	2386.9
20°	2213.3	2178.7	2151.5	2086.6	2068.9	2090.8	2155.7	2236.3	2312.7	2371.3	2442.4
22.5°	2364.0	2367.1	2328.4	2221.6	2182.9	2192.3	2247.8	2313.7	2397.4	2439.3	2520.9
25°	2582.6	2560.7	2518.8	2434.0	2347.2	2354.5	2395.3	2455.0	2478.0	2507.3	2596.3
27.5°	2782.5	2788.8	2706.2	2626.6	2518.8	2497.9	2571.1	2581.6	2542.8	2598.4	2628.7
30°	2985.5	2980.3	2925.9	2832.7	2727.0	2731.2	2763.7	2712.4	2659.1	2689.3	2710.3
32.5°	3195.9	3136.3	3134.2	3050.4	2969.8	2931.1	2891.4	2916.5	2833.8	2840.1	2820.2
35°	3364.3	3372.7	3324.6	3264.9	3225.2	3157.1	3048.3	3093.3	3077.6	3070.3	2984.5
37.5°	3486.8	3454.3	3478.4	3458.5	3420.9	3336.1	3223.0	3266.0	3273.3	3308.9	3209.5
40°	3587.3	3573.7	3637.5	3647.9	3621.8	3438.7	3235.7	3363.3	3473.2	3550.6	3432.4
42.5°	3635.4	3664.7	3731.7	3812.3	3753.6	3557.9	3300.5	3437.6	3682.5	3804.9	3643.7
45°	3700.2	3662.6	3762.0	3909.6	3910.6	3658.4	3363.3	3538.1	3845.7	4023.6	3788.2
47.5°	3634.3	3653.1	3755.7	3943.0	3991.2	3764.1	3532.9	3680.4	4025.7	4183.7	3922.1
50°	3486.8	3524.5	3711.8	3906.4	4051.9	3876.1	3727.5	3834.2	4192.1	4312.5	3944.1
52.5°	3333.0	3353.9	3646.9	3934.7	4079.1	4020.5	3988.0	4046.6	4395.2	4457.9	3971.3
55°	2914.4	3013.8	3432.4	3922.1	4212.0	4281.0	4256.0	4341.7	4625.3	4688.2	4119.9
56°	2720.8	2773.1	3303.7	3863.6	4238.1	4376.3	4363.7	4402.5	4747.8	4813.7	4142.9
57.5°	2362.9	2367.1	2817.1	3604.0	4139.7	4404.6	4392.0	4422.3	4723.7	4678.7	3940.9
60°	1478.6	1543.5	1917.1	2772.0	3520.3	4086.4	4157.6	3913.8	3982.8	3887.6	3066.1
62.5°	766.0	756.6	1004.6	1620.9	2336.7	2925.9	2991.8	2980.3	2873.5	2734.4	2002.9
65°	382.0	384.1	525.3	802.7	1197.2	1532.0	1716.1	1736.1	1452.5	1336.3	950.2
67.5°	277.3	287.8	377.8	490.8	564.1	631.0	773.3	758.7	574.5	546.2	506.5
70°	215.5	225.0	306.6	374.7	340.1	340.1	370.5	383.0	409.1	420.7	434.3
72.5°	156.9	164.3	234.4	258.4	222.9	239.6	277.3	306.6	333.8	338.0	353.7
75°	107.8	114.0	153.8	142.3	134.0	165.3	203.0	230.2	250.1	260.5	270.0
77.5°	70.1	72.2	87.9	74.3	85.8	106.7	131.9	154.9	174.8	183.2	185.2
80°	31.4	34.6	37.7	47.1	59.6	76.4	94.2	113.0	125.6	128.7	135.0
82.5°	17.8	17.8	23.0	33.5	44.0	55.4	68.0	81.7	96.3	99.4	98.4
85°	9.4	9.4	13.6	19.8	27.2	32.5	31.4	32.5	34.6	39.8	38.7
87.5°	3.1	3.1	4.2	4.2	5.2	6.3	5.2	7.3	9.4	9.4	9.4
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°	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4	2149.4
2.5°	2146.3	2155.7	2143.1	2170.4	2170.4	2165.2	2138.9	2147.3	2153.6	2153.6	2158.8
5°	2187.1	2184.0	2192.3	2159.9	2140.0	2132.7	2089.8	2068.9	2051.0	2050.0	2034.3
7.5°	2210.1	2201.7	2198.6	2174.6	2086.6	2033.3	1941.2	1887.8	1876.3	1835.5	1851.2
10°	2246.7	2262.5	2246.7	2116.0	1993.5	1871.1	1781.1	1698.4	1665.9	1639.8	1624.1
12.5°	2322.1	2314.8	2223.7	2046.8	1875.3	1729.8	1595.9	1509.0	1476.5	1453.5	1451.4
15°	2385.9	2349.3	2210.1	1938.0	1691.1	1536.2	1426.3	1364.6	1349.9	1352.0	1361.4
17.5°	2407.9	2382.8	2138.9	1825.1	1554.0	1371.9	1320.6	1311.2	1324.8	1340.5	1344.7
20°	2442.4	2402.7	2109.6	1671.2	1384.5	1269.3	1266.2	1299.7	1324.8	1347.9	1351.0
22.5°	2514.6	2414.2	2014.4	1525.7	1268.3	1239.0	1269.3	1297.6	1336.3	1355.2	1338.5
25°	2535.5	2389.0	1880.5	1351.0	1195.1	1220.2	1252.6	1291.4	1318.5	1329.0	1336.3
27.5°	2553.4	2350.3	1699.4	1234.8	1172.0	1219.1	1252.6	1285.0	1299.7	1309.1	1317.5
30°	2603.6	2338.8	1542.5	1157.4	1157.4	1198.2	1241.1	1249.5	1269.3	1280.8	1295.5
32.5°	2628.7	2259.3	1381.3	1108.2	1142.8	1208.7	1211.8	1227.5	1228.5	1238.0	1222.2
35°	2694.6	2202.7	1231.6	1072.6	1149.0	1198.2	1213.9	1204.5	1153.2	1128.1	1133.3
37.5°	2742.8	2174.6	1123.9	1068.4	1150.1	1209.7	1218.1	1147.0	1093.6	1051.7	1062.2
40°	2872.5	2104.4	1042.3	1061.1	1159.5	1222.2	1199.3	1121.8	1025.5	982.6	975.3
42.5°	2971.9	2054.2	991.0	1052.8	1166.8	1240.1	1189.8	1071.6	973.2	933.4	943.9
45°	3087.1	2042.7	963.8	1054.9	1179.3	1249.5	1178.3	1032.8	928.2	912.5	909.4
47.5°	3127.8	1960.0	934.5	1037.0	1176.2	1246.4	1139.6	1003.6	911.5	913.6	921.9
50°	3059.8	1875.3	912.5	1000.4	1155.3	1218.1	1078.9	964.8	902.1	928.2	942.8
52.5°	2973.0	1788.4	867.5	951.3	1112.4	1174.1	1050.7	962.8	892.6	884.2	887.4
55°	2999.2	1717.2	804.8	884.2	1043.3	1092.5	1019.2	942.8	869.6	838.2	848.7
56°	2914.4	1644.0	763.9	842.4	996.2	1040.1	1003.6	925.1	850.8	829.8	829.8
57.5°	2674.7	1398.1	710.6	775.4	896.8	949.2	973.2	914.6	829.8	793.2	794.2
60°	1972.6	994.1	637.3	683.3	743.0	784.8	896.8	885.3	777.5	752.4	743.0
62.5°	1216.0	726.2	585.0	602.7	633.1	667.7	782.7	801.6	722.1	694.8	688.5
65°	681.2	555.6	545.2	552.5	567.2	585.0	649.8	691.7	637.3	595.4	593.3
67.5°	498.1	497.0	505.4	511.7	518.0	518.0	533.7	550.4	543.1	509.6	506.5
70°	442.6	445.8	452.0	453.1	455.2	447.9	435.3	430.1	438.5	417.6	413.4
72.5°	365.2	375.7	383.0	384.1	372.6	363.1	346.4	328.6	322.3	318.2	317.1
75°	280.5	287.8	290.9	289.9	285.7	272.1	252.2	234.4	222.9	210.3	216.6
77.5°	189.4	199.9	205.1	205.1	198.8	177.9	168.5	154.9	143.4	129.8	131.9
80°	132.9	140.2	148.6	147.5	137.1	126.7	113.0	100.5	91.1	80.6	79.6
82.5°	99.4	103.6	107.8	105.7	98.4	87.9	78.5	66.9	56.5	49.2	49.2
85°	35.6	38.7	47.1	49.2	53.4	53.4	45.0	37.7	30.4	25.1	25.1
87.5°	10.4	10.4	11.5	11.5	10.4	11.5	9.4	10.4	11.5	7.3	7.3
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)