

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: P451894

Luminaire Tested: **GALN-SA2D-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451894  
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-SA2D-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15427 lumens  
Efficiency: N/A  
Efficacy: 123.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

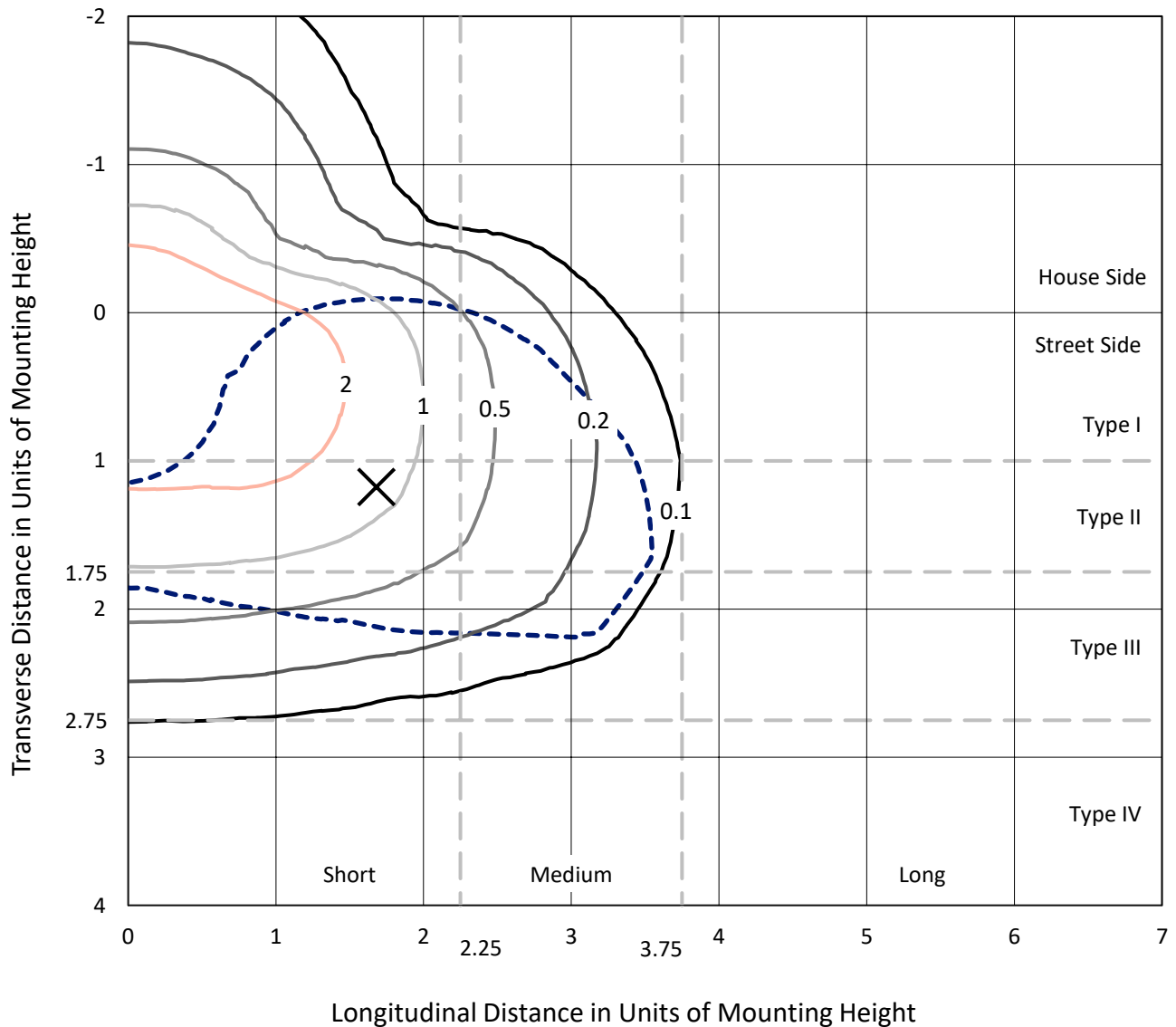
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

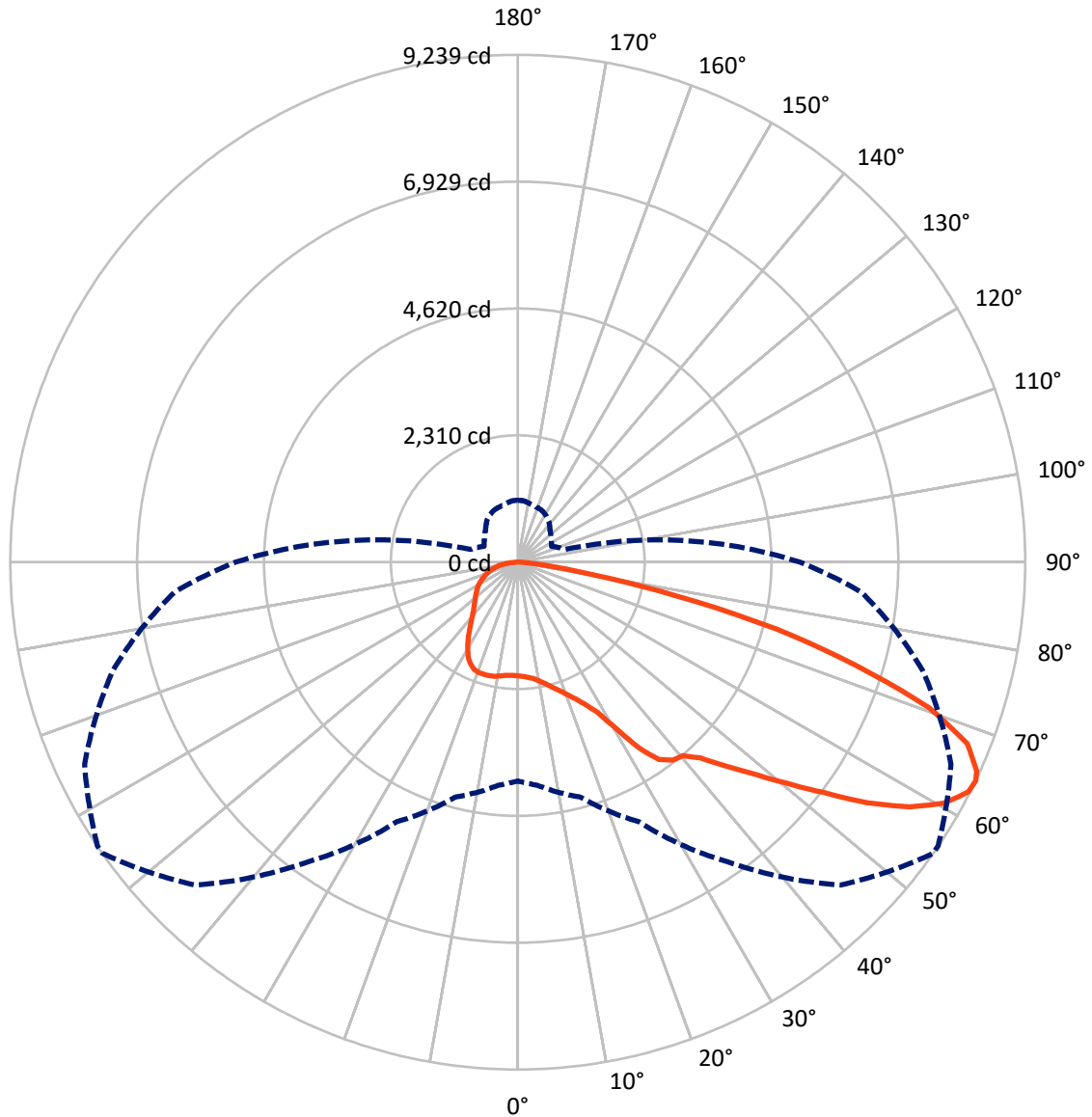
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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
<b>House Side</b>	Lumens	3747.5	0.0	3747.5
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	11679.5	0.0	11679.5
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	15427.0	0.0	15427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.3	1.3
10°-20°	635.3	4.1
20°-30°	1131.0	7.3
30°-40°	1740.1	11.3
40°-50°	2466.8	16.0
50°-60°	3570.6	23.1
60°-70°	3695.2	24.0
70°-80°	1730.5	11.2
80°-90°	256.2	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°	15427.0	100.0
0°-180°	15427.0	100.0

**Coefficient of Utilization**



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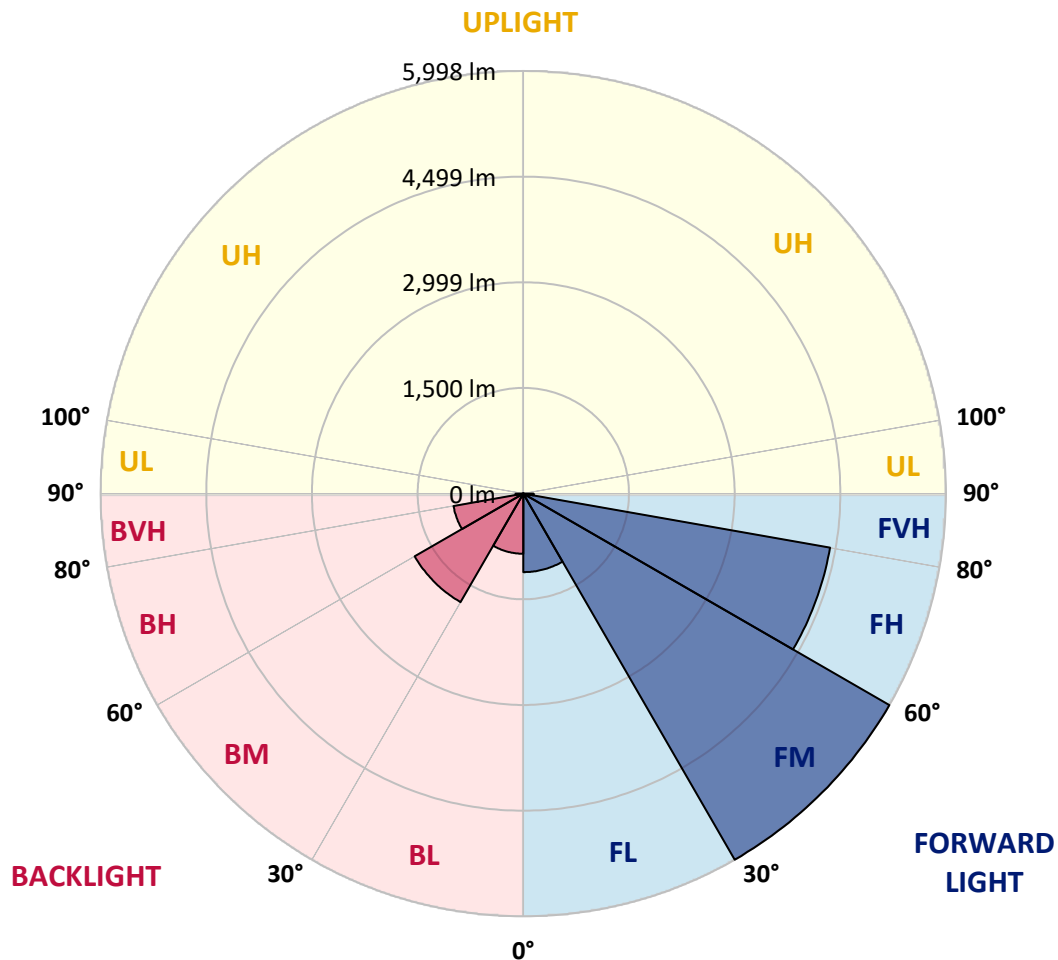
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1114.1	7.2			
FM	(30°-60°)	5998.4	38.9			
FH	(60°-80°)	4420.3	28.7			G2/5000
FVH	(80°-90°)	146.7	1.0			G2/225
BL	(0°-30°)	853.5	5.5	B2/1000		
BM	(30°-60°)	1779.1	11.5	B2/2500		
BH	(60°-80°)	1005.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	109.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8
2.5°	2093.1	2092.2	2094.8	2092.2	2093.9	2087.9	2085.3	2087.0	2084.5	2080.2	2072.4
5°	2118.9	2118.0	2118.9	2115.4	2117.1	2113.7	2107.7	2109.4	2105.1	2095.6	2084.5
7.5°	2162.7	2159.3	2159.3	2158.4	2155.0	2149.8	2145.5	2143.8	2139.5	2127.5	2110.3
10°	2219.5	2219.5	2220.3	2213.4	2217.7	2208.3	2204.0	2203.1	2188.5	2173.0	2149.0
12.5°	2294.3	2298.6	2296.0	2292.6	2290.8	2287.4	2272.8	2276.2	2259.9	2233.2	2204.0
15°	2387.1	2394.0	2389.7	2388.0	2383.7	2370.8	2364.8	2362.2	2340.7	2302.0	2263.3
17.5°	2510.1	2501.5	2498.1	2493.8	2475.7	2466.3	2455.9	2454.2	2435.3	2389.7	2329.5
20°	2617.6	2629.6	2622.8	2618.5	2600.4	2582.4	2574.6	2572.0	2555.7	2505.8	2409.5
22.5°	2745.7	2748.3	2750.9	2740.6	2732.0	2718.2	2704.5	2700.2	2694.1	2642.5	2524.7
25°	2882.5	2892.8	2884.2	2873.9	2863.5	2862.7	2875.6	2873.9	2871.3	2821.4	2677.8
27.5°	3105.2	3114.6	3117.2	3106.0	3066.5	3069.9	3099.2	3108.6	3148.2	3065.6	2874.7
30°	3230.7	3240.2	3261.7	3303.8	3366.6	3421.6	3492.2	3513.7	3551.5	3395.8	3108.6
32.5°	3308.1	3311.6	3350.3	3428.5	3616.8	3822.4	4014.1	4021.9	4045.9	3827.5	3322.7
35°	3430.2	3432.8	3463.8	3549.8	3770.8	4113.0	4409.7	4419.2	4399.4	3961.7	3422.5
37.5°	3580.7	3587.6	3607.4	3678.8	3942.8	4356.4	4573.9	4567.1	4391.6	4068.3	3598.8
40°	3800.0	3800.0	3776.8	3873.1	4124.2	4495.7	4631.6	4619.5	4573.1	4377.0	3867.1
42.5°	3993.5	3990.0	4045.1	4110.4	4351.2	4710.7	4873.2	4893.0	4969.5	4764.8	4172.4
45°	4245.4	4260.9	4291.9	4410.6	4737.3	5077.9	5287.7	5306.6	5414.9	5221.5	4529.2
47.5°	4500.0	4505.1	4602.3	4760.5	5215.4	5575.7	5747.7	5778.7	5877.6	5755.5	4913.6
50°	4680.6	4729.6	4885.2	5134.6	5708.2	6182.9	6317.0	6354.0	6528.5	6336.8	5361.6
52.5°	4871.5	4919.6	5109.7	5489.8	6274.0	6803.7	6968.8	6993.8	7175.2	6925.0	5820.0
55°	5034.9	5079.6	5295.4	5804.5	6724.6	7437.5	7736.7	7707.5	7794.4	7378.2	6173.4
57.5°	5061.5	5097.6	5369.4	6005.7	7063.4	7981.0	8410.1	8427.3	8326.6	7717.0	6464.9
60°	4855.1	4929.1	5241.2	5984.2	7215.6	8359.3	8912.3	8924.3	8638.8	7890.7	6581.0
62.5°	4489.7	4481.9	4859.4	5638.5	7002.4	8445.3	9208.1	9195.2	8760.9	7807.3	6468.4
64°	3984.9	4077.8	4430.3	5213.7	6658.4	8312.9	9239.0	9232.1	8702.4	7633.5	6276.6
65°	3677.0	3671.9	4020.1	4866.3	6316.1	8113.4	9184.0	9174.5	8580.3	7477.9	6127.8
67.5°	2654.6	2666.6	3010.6	3755.3	5134.6	7333.4	8825.4	8790.1	8098.8	6961.9	5562.0
70°	1608.1	1614.9	1885.0	2491.2	3685.6	5928.3	7955.2	7956.9	7361.8	6191.5	4733.9
72.5°	847.0	865.1	973.4	1414.6	2238.4	4159.5	6453.7	6606.8	6320.4	5284.2	3739.8
75°	471.2	473.8	550.4	697.4	1142.0	2327.8	4850.8	4894.7	5003.9	4253.2	2765.5
77.5°	359.4	364.6	388.7	450.6	621.7	1079.2	2935.8	3155.9	3526.5	2998.6	1578.0
80°	291.5	296.7	317.3	354.3	413.6	511.7	1363.8	1482.5	1887.5	1331.2	615.7
82.5°	227.0	223.6	250.2	274.3	301.0	302.7	559.8	619.1	768.8	572.7	266.6
85°	168.5	168.5	190.0	184.9	194.3	177.1	246.8	272.6	307.9	243.4	123.8
87.5°	67.1	74.0	124.7	111.8	86.9	69.7	91.2	96.3	106.6	95.5	51.6
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°	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8	2069.8
2.5°	2073.3	2075.9	2069.8	2065.5	2063.8	2061.2	2058.7	2059.5	2063.0	2066.4	2065.5
5°	2083.6	2084.5	2074.1	2069.0	2065.5	2062.1	2062.1	2064.7	2071.6	2076.7	2076.7
7.5°	2109.4	2109.4	2094.8	2085.3	2080.2	2074.1	2072.4	2073.3	2078.4	2085.3	2086.2
10°	2149.8	2146.4	2127.5	2112.8	2103.4	2088.8	2075.9	2069.0	2071.6	2075.9	2075.9
12.5°	2198.8	2189.4	2165.3	2145.5	2122.3	2094.8	2068.1	2054.4	2053.5	2057.8	2056.1
15°	2251.3	2241.0	2207.4	2171.3	2130.9	2090.5	2058.7	2038.9	2023.4	2019.1	2028.6
17.5°	2312.3	2290.8	2244.4	2194.5	2134.3	2081.9	2032.0	1991.6	1964.1	1956.3	1958.9
20°	2386.3	2357.9	2295.1	2216.9	2131.8	2050.9	1973.5	1919.4	1874.6	1860.9	1862.6
22.5°	2488.6	2439.6	2347.6	2228.1	2110.3	1992.4	1885.0	1814.4	1760.3	1738.8	1751.7
25°	2604.7	2551.4	2397.5	2225.5	2054.4	1898.7	1780.0	1688.0	1639.0	1607.2	1614.1
27.5°	2764.7	2670.1	2450.8	2202.3	1974.4	1784.3	1646.8	1559.9	1515.2	1498.8	1506.6
30°	2969.3	2824.0	2508.4	2139.5	1848.0	1639.9	1512.6	1455.9	1429.2	1408.6	1415.4
32.5°	3117.2	2932.3	2521.3	2033.7	1711.2	1508.3	1421.5	1379.3	1350.1	1330.3	1334.6
35°	3223.0	3024.4	2515.3	1903.9	1568.5	1400.0	1349.2	1314.8	1267.5	1224.5	1216.8
37.5°	3364.9	3139.6	2471.4	1762.0	1427.5	1326.9	1290.7	1227.1	1159.2	1101.6	1099.0
40°	3582.4	3274.6	2377.7	1595.2	1307.1	1272.7	1228.8	1146.3	1073.2	1026.7	1023.3
42.5°	3806.9	3399.3	2250.4	1419.7	1208.2	1215.9	1162.6	1080.9	1036.2	1006.1	1002.7
45°	4081.2	3534.3	2112.8	1267.5	1135.1	1162.6	1105.0	1057.7	1031.0	1011.3	1006.1
47.5°	4377.9	3672.7	1958.0	1130.8	1073.2	1113.6	1080.9	1059.4	1044.8	1031.0	1025.0
50°	4697.8	3827.5	1812.7	1020.7	1017.3	1062.9	1078.3	1070.6	1062.0	1057.7	1052.5
52.5°	5048.6	3985.7	1690.6	943.3	968.3	1026.7	1079.2	1085.2	1085.2	1082.6	1079.2
55°	5286.0	4095.8	1566.8	880.6	918.4	997.5	1077.5	1100.7	1109.3	1105.9	1102.4
57.5°	5461.4	4156.0	1411.1	826.4	876.3	969.1	1068.0	1102.4	1111.0	1115.3	1113.6
60°	5497.5	4100.1	1207.3	769.6	830.7	927.9	1033.6	1076.6	1087.8	1114.5	1117.0
62.5°	5335.0	3928.1	1004.4	713.7	774.8	865.1	987.2	1047.4	1069.7	1111.0	1115.3
64°	5135.5	3735.5	891.7	678.5	738.7	829.8	964.0	1039.6	1068.9	1123.9	1127.4
65°	4989.3	3595.3	821.2	656.1	715.5	806.6	951.1	1042.2	1076.6	1143.7	1148.9
67.5°	4451.0	3112.9	679.3	603.7	660.4	767.1	953.7	1063.7	1074.9	1151.4	1150.6
70°	3683.1	2478.3	569.3	555.5	607.1	735.2	943.3	1029.3	1030.2	1080.9	1068.9
72.5°	2757.8	1831.6	493.6	505.6	547.8	659.6	890.9	982.9	968.3	975.2	963.1
75°	1894.4	1211.6	424.8	452.3	485.9	583.0	816.9	892.6	869.4	860.8	852.2
77.5°	1011.3	669.9	353.4	399.9	422.2	503.9	712.9	786.0	761.9	728.4	717.2
80°	409.3	315.6	284.6	331.1	344.0	405.9	593.3	638.9	620.9	562.4	543.5
82.5°	205.5	189.2	223.6	260.6	261.4	289.8	441.1	484.1	443.7	372.3	356.0
85°	107.5	110.9	153.9	183.2	161.7	156.5	264.9	293.2	269.2	233.9	210.7
87.5°	38.7	44.7	80.8	80.0	56.8	30.1	58.5	28.4	15.5	9.5	12.0
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)