

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: P452420

Luminaire Tested: **GALN-SA3B-760-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16949 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

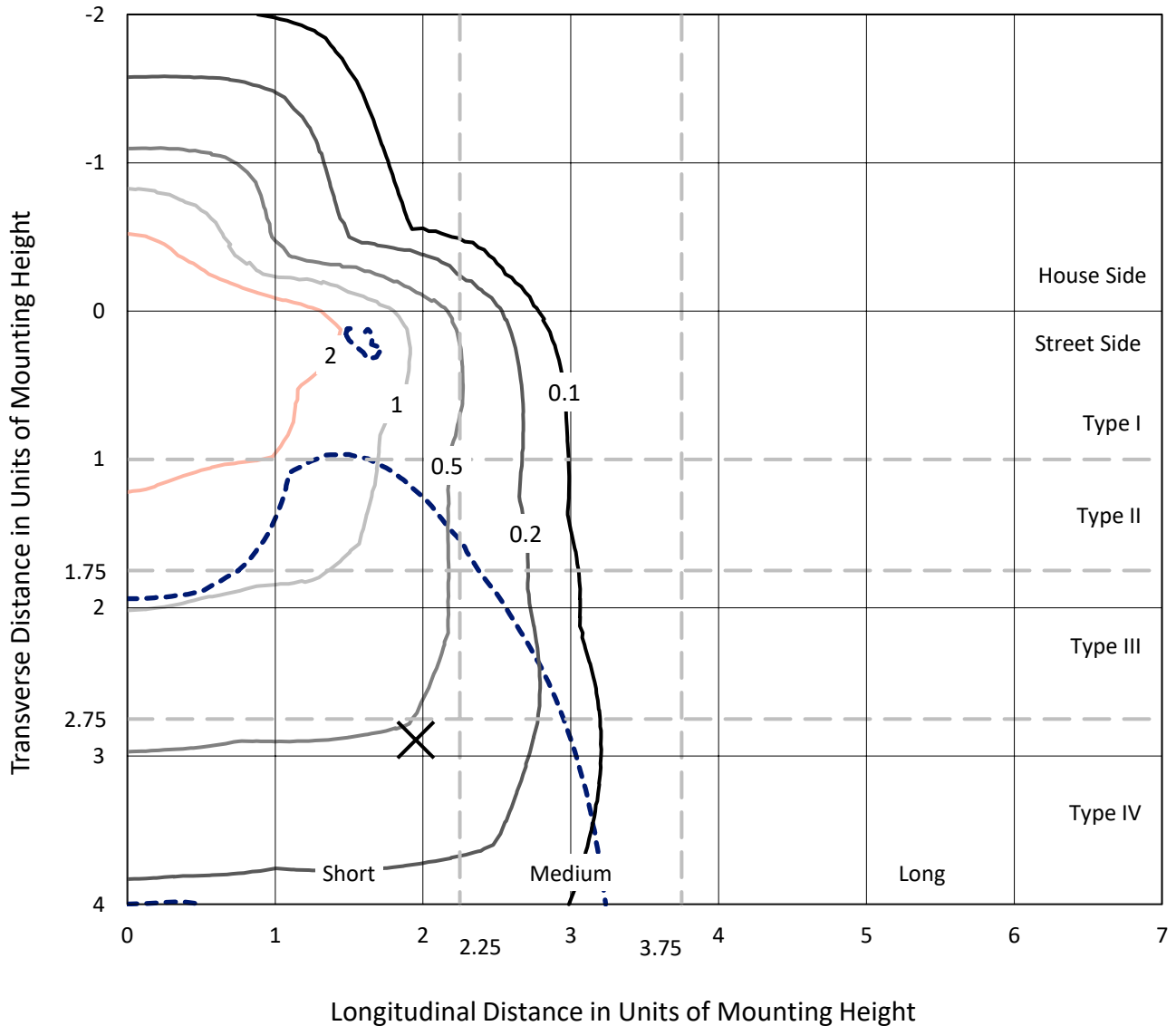
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

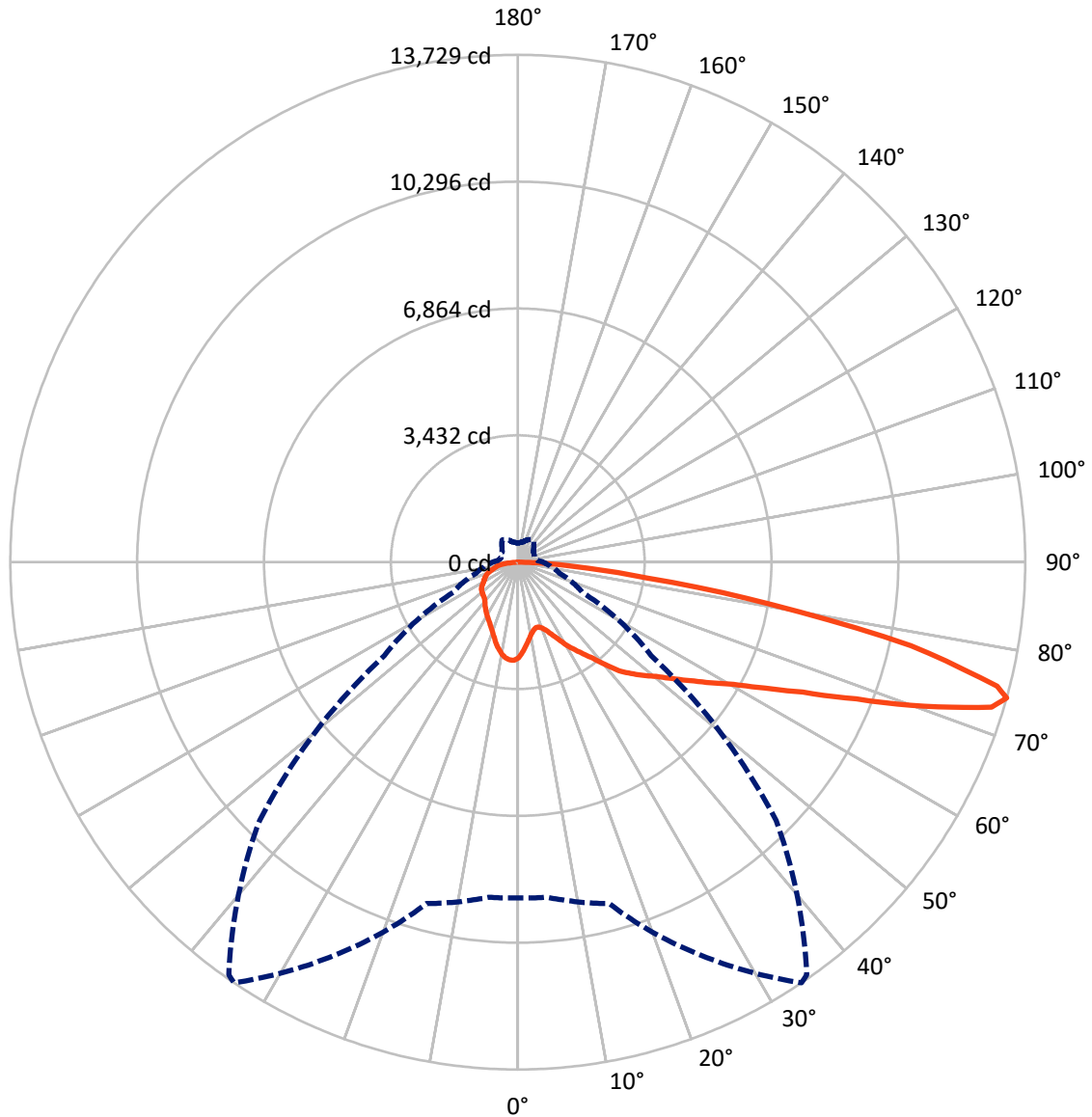
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3606.9	0.0	3606.9
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	13342.1	0.0	13342.1
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	16949.0	0.0	16949.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.4	1.4
10°-20°	644.3	3.8
20°-30°	1062.2	6.3
30°-40°	1591.1	9.4
40°-50°	2313.0	13.6
50°-60°	3230.7	19.1
60°-70°	4044.6	23.9
70°-80°	3344.6	19.7
80°-90°	483.3	2.9
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°	16949.0	100.0
0°-180°	16949.0	100.0

**Coefficient of Utilization**



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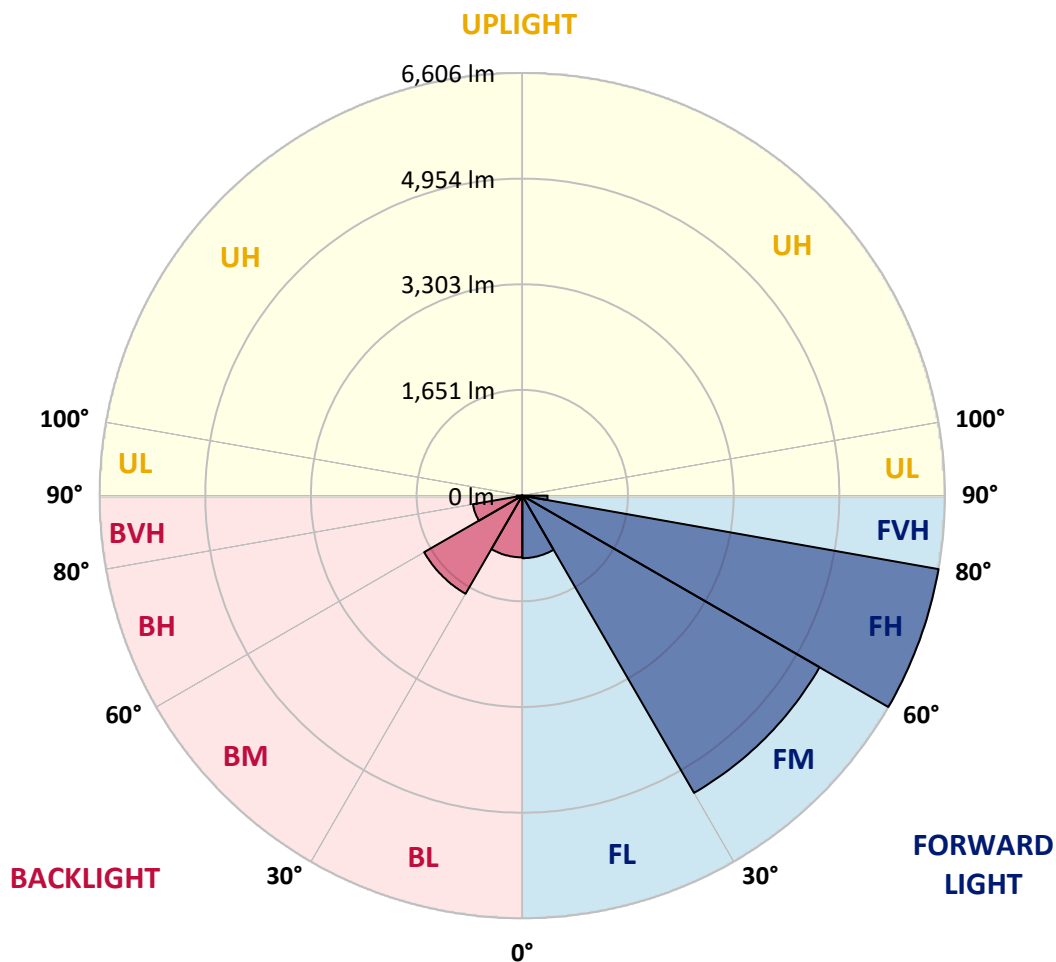
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	977.0	5.8			
FM	(30°-60°)	5363.4	31.6			
FH	(60°-80°)	6605.8	39.0			G3/7500
FVH	(80°-90°)	395.9	2.3			G3/500
BL	(0°-30°)	964.8	5.7	B2/1000		
BM	(30°-60°)	1771.3	10.5	B2/2500		
BH	(60°-80°)	783.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	87.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8
2.5°	2391.5	2403.7	2410.3	2433.8	2439.4	2446.9	2466.7	2492.9	2526.7	2556.8	2583.1
5°	2192.5	2211.3	2222.5	2243.2	2283.6	2287.3	2339.9	2400.0	2468.5	2532.4	2585.0
7.5°	2003.7	2024.4	2033.8	2071.3	2124.9	2133.3	2210.3	2305.1	2419.7	2516.4	2597.2
10°	1862.0	1872.3	1892.9	1921.1	1985.0	1990.6	2091.1	2217.8	2366.2	2508.9	2617.8
12.5°	1785.0	1790.6	1795.3	1825.3	1888.3	1896.7	2001.9	2145.5	2323.9	2514.5	2651.6
15°	1796.2	1798.1	1777.5	1783.1	1833.8	1846.0	1950.2	2097.6	2297.6	2528.6	2702.3
17.5°	1891.1	1884.5	1833.8	1807.5	1843.2	1848.8	1939.9	2078.9	2285.4	2554.9	2754.9
20°	2040.4	2031.0	1943.6	1885.4	1906.1	1910.8	1973.7	2092.9	2297.6	2598.1	2836.6
22.5°	2226.3	2222.5	2090.1	2019.7	2018.8	2018.8	2051.6	2143.6	2334.3	2657.3	2922.0
25°	2486.4	2466.7	2293.9	2202.8	2177.5	2175.6	2171.8	2227.2	2381.2	2720.2	3023.5
27.5°	2753.0	2719.2	2565.2	2425.3	2370.9	2364.3	2339.9	2345.5	2441.3	2791.5	3138.9
30°	2992.5	2970.9	2826.3	2671.3	2606.6	2591.5	2523.9	2492.9	2541.8	2920.2	3323.0
32.5°	3175.6	3162.4	3049.7	2908.9	2813.1	2810.3	2711.7	2686.4	2698.6	3076.0	3533.3
35°	3323.9	3328.6	3271.3	3149.3	3039.4	3023.5	2957.7	2925.8	2890.1	3301.4	3798.1
37.5°	3526.7	3537.1	3533.3	3428.1	3293.9	3297.6	3282.6	3230.0	3135.2	3553.0	4092.0
40°	3750.2	3757.7	3756.8	3716.4	3646.0	3649.7	3644.1	3584.0	3442.2	3873.2	4418.8
42.5°	4059.1	4023.4	3930.5	3970.9	4012.2	4030.0	4068.5	4011.2	3816.9	4215.0	4725.8
45°	4404.7	4337.1	4126.7	4145.5	4298.6	4332.4	4544.6	4465.7	4223.4	4607.5	5087.3
47.5°	4622.5	4555.8	4378.4	4374.6	4577.4	4610.3	4985.9	4956.8	4593.4	5031.0	5528.6
50°	4816.9	4807.5	4607.5	4655.4	4853.5	4902.3	5466.6	5439.4	4962.4	5530.5	6009.4
52.5°	5105.1	5029.1	4869.5	4968.0	5230.0	5293.9	5943.6	5863.8	5301.4	5971.8	6476.0
55°	5234.7	5216.9	5207.5	5292.9	5652.5	5698.6	6407.5	6224.4	5590.6	6345.5	6830.9
57.5°	5581.2	5548.3	5641.3	5699.5	6150.2	6220.6	6892.0	6600.9	5844.1	6642.2	7003.7
60°	6030.0	6012.2	6097.6	6202.8	6706.1	6813.1	7444.1	6922.0	6047.8	6791.5	6908.9
62.5°	6700.4	6698.5	6682.6	6907.9	7493.8	7592.4	8077.9	7234.7	6079.8	6679.8	6418.7
65°	7661.9	7628.1	7489.2	7735.2	8474.1	8589.6	8738.0	7409.3	5887.3	6106.1	5404.7
67.5°	8667.6	8665.7	8553.0	8872.2	9881.6	10000.9	9563.3	7370.8	5353.0	4946.4	3838.5
70°	9501.3	9461.0	9604.6	10455.3	11679.7	11817.8	10285.4	6917.3	4263.8	3266.6	2280.7
72.5°	9701.3	9703.2	10001.8	11676.0	13406.5	13428.1	10545.5	5606.5	2853.5	1801.9	1140.8
74°	9085.4	9101.4	9564.3	11737.0	13728.6	13630.9	9880.7	4406.5	1929.6	1176.5	822.5
75°	8292.9	8192.4	8861.9	11330.4	13394.3	13289.1	9102.3	3536.1	1472.3	939.9	720.2
77.5°	4433.8	4536.1	5569.0	8455.3	10881.6	10760.5	6171.8	1695.8	795.3	654.5	518.3
80°	1578.4	1740.8	2446.9	4424.4	6976.5	7014.0	2945.5	777.5	559.6	482.6	366.2
82.5°	644.1	662.0	1050.7	1963.4	3542.7	3576.5	1202.8	462.0	400.0	332.4	218.8
85°	251.6	259.2	464.8	882.6	1511.7	1610.3	416.0	244.1	246.0	190.6	111.7
87.5°	84.5	95.8	190.6	293.9	513.6	503.3	121.1	72.3	88.3	82.6	34.7
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°	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8	2587.8
2.5°	2596.2	2614.1	2626.3	2639.4	2651.6	2655.4	2652.6	2661.0	2662.0	2662.9	2663.8
5°	2611.3	2635.7	2659.1	2672.3	2677.9	2673.2	2657.3	2648.8	2641.3	2635.7	2637.5
7.5°	2631.9	2666.6	2688.2	2693.9	2678.9	2657.3	2617.8	2586.8	2567.1	2554.0	2553.0
10°	2663.8	2697.6	2715.5	2699.5	2658.2	2605.6	2543.6	2485.4	2441.3	2428.2	2427.2
12.5°	2704.2	2742.7	2741.8	2694.8	2622.5	2528.6	2428.2	2360.5	2300.5	2270.4	2282.6
15°	2756.8	2785.9	2758.7	2674.2	2559.6	2431.0	2307.0	2215.0	2147.4	2115.5	2117.4
17.5°	2817.8	2843.2	2770.9	2637.5	2471.3	2306.1	2162.4	2075.1	2021.6	1998.1	1996.2
20°	2893.9	2901.4	2770.9	2573.7	2357.7	2160.5	2023.5	1962.4	1932.4	1920.2	1923.9
22.5°	2975.6	2960.5	2755.9	2483.6	2208.4	2008.4	1916.4	1889.2	1874.2	1872.3	1874.2
25°	3067.6	3025.3	2724.9	2361.5	2052.6	1877.0	1823.5	1828.2	1831.0	1831.0	1837.5
27.5°	3180.3	3095.8	2673.2	2207.5	1870.4	1754.9	1739.9	1772.8	1787.8	1790.6	1795.3
30°	3328.6	3172.7	2587.8	2015.0	1715.5	1645.1	1671.4	1715.5	1732.4	1742.7	1740.8
32.5°	3505.1	3257.3	2472.3	1822.5	1590.6	1568.1	1600.0	1645.1	1663.8	1669.5	1662.0
35°	3712.7	3353.0	2320.2	1642.2	1481.7	1494.8	1532.4	1546.5	1563.4	1563.4	1567.1
37.5°	3936.1	3430.0	2134.3	1477.0	1397.2	1445.1	1472.3	1459.1	1451.6	1442.2	1446.9
40°	4163.4	3487.3	1892.9	1313.6	1312.7	1393.4	1400.9	1363.4	1333.3	1323.9	1319.2
42.5°	4361.5	3523.0	1675.1	1186.8	1232.9	1342.7	1348.3	1288.3	1240.4	1212.2	1202.8
45°	4595.3	3564.3	1462.0	1081.7	1158.7	1302.3	1316.4	1235.7	1165.3	1106.1	1091.1
47.5°	4915.5	3658.2	1293.9	1000.0	1105.2	1277.0	1296.7	1192.5	1099.5	1022.5	1010.3
50°	5277.0	3786.8	1163.4	944.6	1063.8	1254.5	1278.9	1148.3	1038.5	953.0	943.7
52.5°	5608.4	3856.3	1050.7	894.8	1023.5	1213.1	1255.4	1116.4	978.4	883.6	875.1
55°	5789.6	3743.6	939.9	846.0	968.1	1159.6	1222.5	1072.3	920.2	846.9	834.7
57.5°	5814.0	3510.8	839.4	793.4	909.9	1093.9	1161.5	1018.8	882.6	821.6	811.3
60°	5625.3	3163.4	761.5	750.2	850.7	1019.7	1093.0	971.8	844.1	793.4	783.1
62.5°	5155.8	2785.9	707.0	710.8	790.6	941.8	1042.2	926.8	807.5	762.4	753.0
65°	4348.3	2299.5	654.5	670.4	737.1	880.7	996.2	889.2	770.9	739.0	730.5
67.5°	3020.6	1660.1	611.3	628.2	686.4	818.8	942.7	848.8	729.6	712.7	699.5
70°	1672.3	1021.6	560.6	580.3	633.8	749.3	882.6	787.8	669.5	662.0	643.2
72.5°	878.9	650.7	503.3	524.9	562.4	660.1	790.6	721.1	610.3	578.4	554.0
74°	686.4	533.3	464.8	487.3	512.7	607.5	736.1	673.2	568.1	530.5	511.7
75°	598.1	475.1	431.9	461.0	483.6	571.8	693.9	639.4	544.6	508.9	492.0
77.5°	422.5	355.9	353.0	387.8	400.0	501.4	625.3	582.2	485.4	447.9	431.9
80°	296.7	266.7	279.8	301.4	318.3	443.2	580.3	503.3	398.1	354.0	348.4
82.5°	193.4	174.6	200.0	219.7	225.4	326.8	468.5	382.2	290.1	235.7	218.8
85°	89.2	87.3	114.6	111.7	110.8	159.6	277.9	223.5	167.1	124.9	117.4
87.5°	22.5	21.6	28.2	23.5	28.2	24.4	25.4	6.6	0.9	0.0	0.0
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)