

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: P454848

Luminaire Tested: **GALN-SA6A-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22808 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

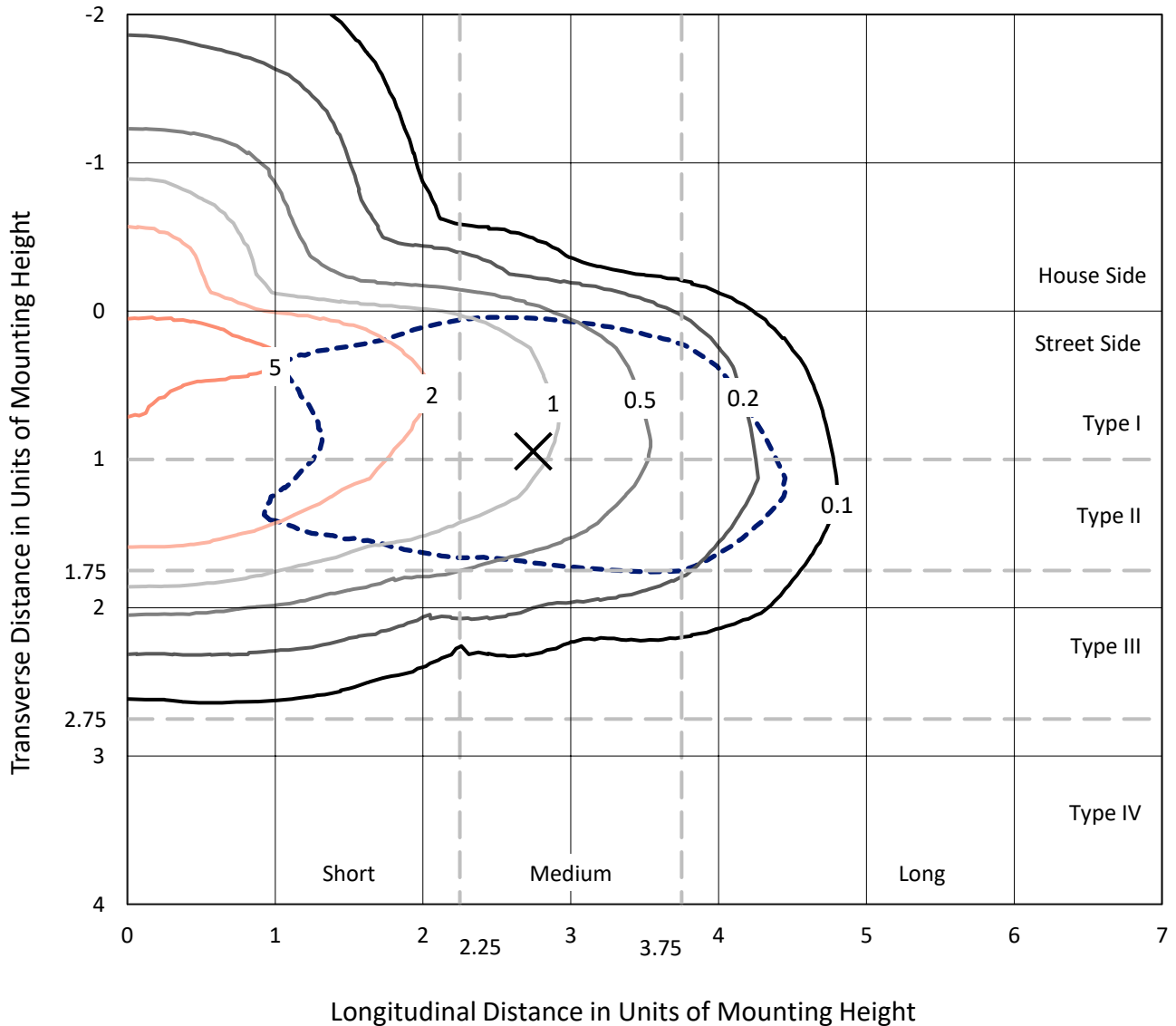
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

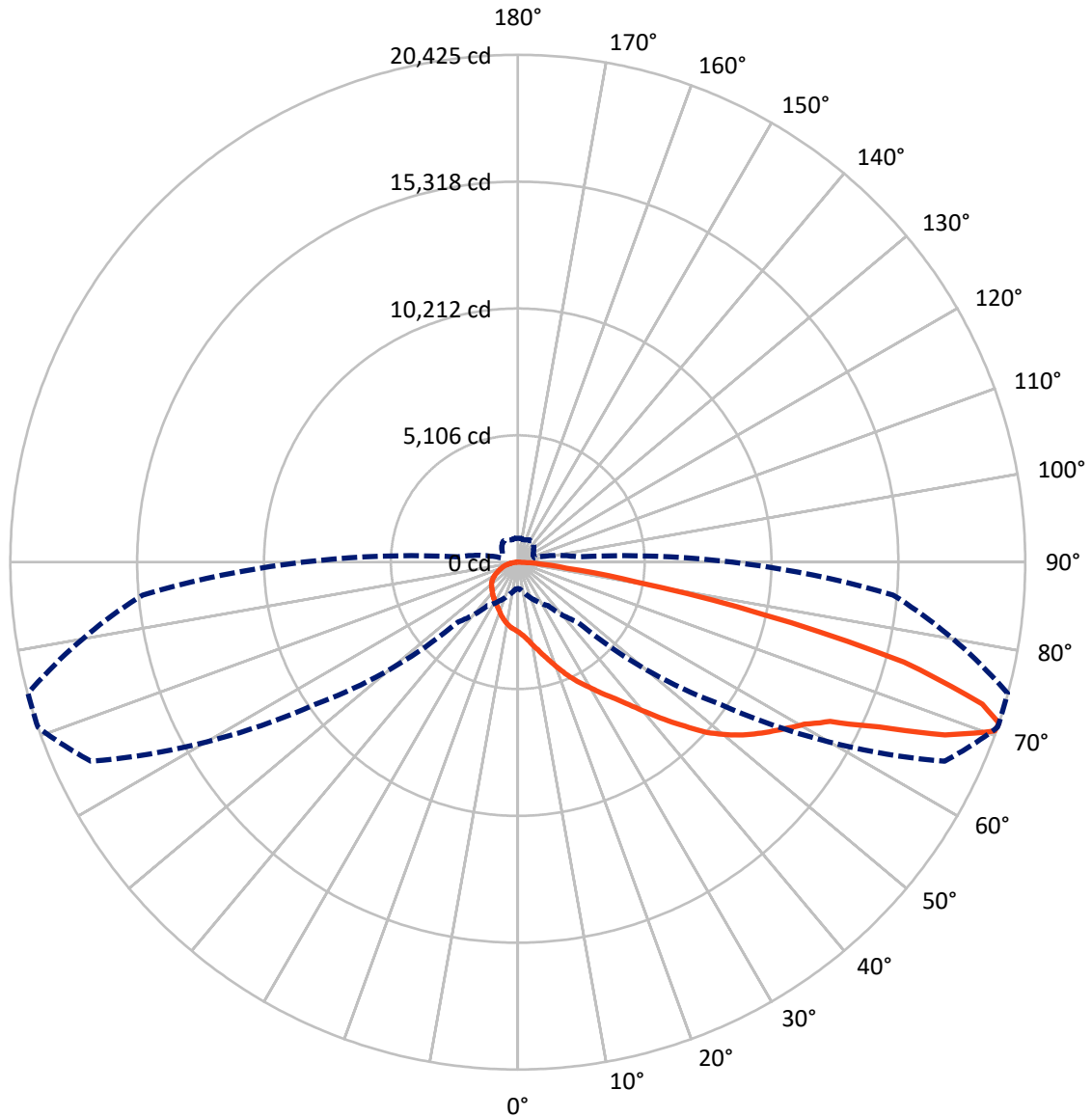
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4102.0	0.0	4102.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	18706.0	0.0	18706.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	22808.0	0.0	22808.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.1	1.2
10°-20°	913.1	4.0
20°-30°	1595.8	7.0
30°-40°	2373.6	10.4
40°-50°	3497.1	15.3
50°-60°	4896.0	21.5
60°-70°	5476.0	24.0
70°-80°	3345.0	14.7
80°-90°	430.3	1.9
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°	22808.0	100.0
0°-180°	22808.0	100.0

**Coefficient of Utilization**



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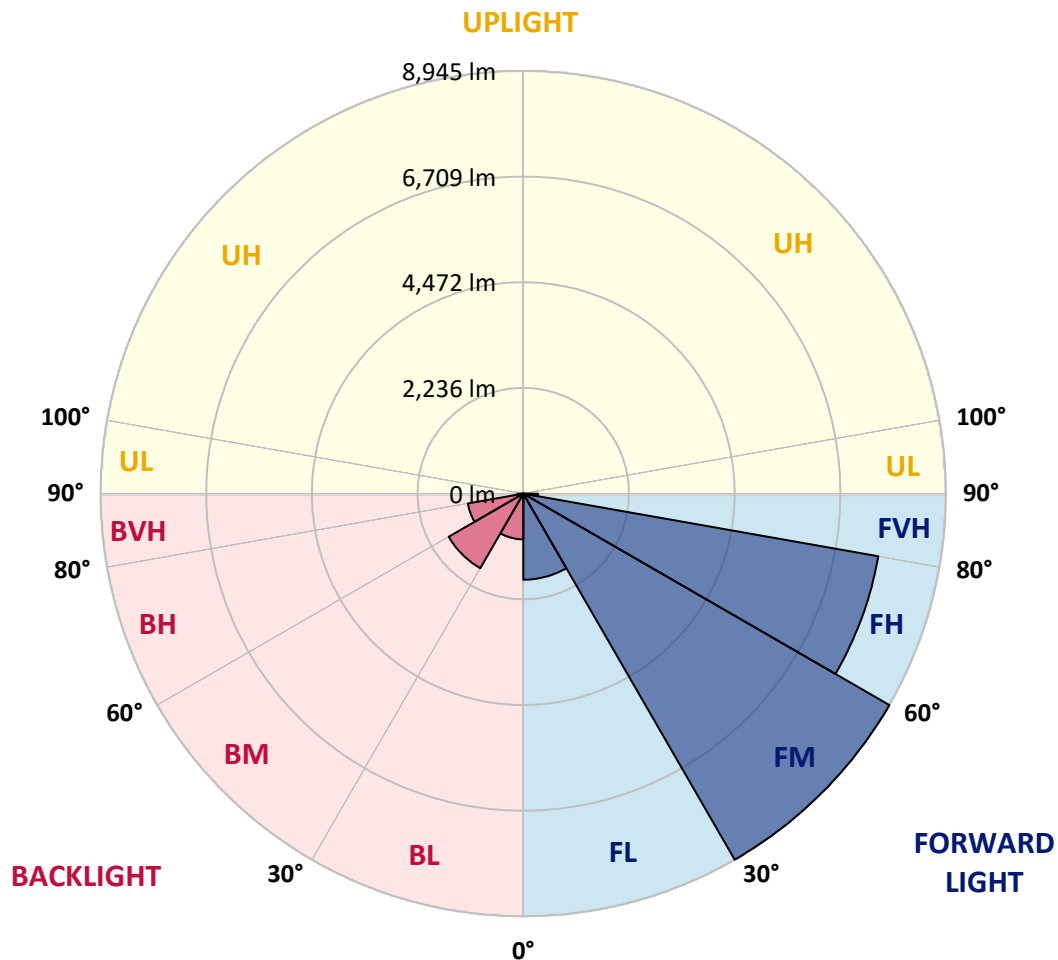
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1822.4	8.0			
FM	(30°-60°)	8944.8	39.2			
FH	(60°-80°)	7629.2	33.4			G4/12000
FVH	(80°-90°)	309.6	1.4			G3/500
BL	(0°-30°)	967.6	4.2	B2/1000		
BM	(30°-60°)	1821.8	8.0	B2/2500		
BH	(60°-80°)	1191.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	120.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2
2.5°	3107.6	3092.6	3093.8	3072.5	3044.9	3014.8	2972.2	2934.6	2904.5	2887.0	2835.6
5°	3443.6	3428.5	3409.7	3363.3	3343.3	3269.3	3175.3	3090.1	3024.9	2988.5	2885.7
7.5°	3715.6	3711.8	3706.8	3680.5	3629.1	3526.3	3446.1	3298.2	3201.6	3132.7	2957.2
10°	3883.6	3889.8	3893.6	3898.6	3877.3	3823.4	3713.1	3526.3	3403.5	3315.7	3049.9
12.5°	3968.8	3975.1	3996.4	4042.8	4071.6	4065.3	3975.1	3792.1	3622.8	3507.5	3149.0
15°	4021.5	4031.5	4069.1	4130.5	4227.1	4288.5	4244.6	4075.4	3889.8	3753.2	3266.8
17.5°	4079.1	4090.4	4131.8	4219.5	4346.1	4479.0	4526.7	4381.2	4179.4	4016.5	3398.4
20°	4111.7	4126.8	4185.7	4301.0	4448.9	4642.0	4799.9	4723.5	4502.8	4322.3	3550.1
22.5°	4164.4	4176.9	4227.1	4349.9	4526.7	4768.6	5073.2	5056.9	4862.6	4629.5	3716.8
25°	4307.3	4327.3	4352.4	4426.4	4596.9	4897.7	5300.1	5412.9	5211.1	4950.4	3869.8
27.5°	4576.8	4593.1	4591.8	4601.9	4698.4	5009.3	5496.9	5765.2	5557.1	5275.0	4017.7
30°	4883.9	4890.2	4895.2	4872.6	4894.0	5123.4	5677.4	6113.7	5905.6	5608.5	4146.8
32.5°	5257.5	5270.0	5227.4	5169.7	5152.2	5292.6	5826.6	6462.2	6318.0	5947.0	4274.7
35°	5698.8	5731.3	5644.8	5543.3	5471.9	5535.8	6027.2	6818.2	6740.5	6379.4	4443.9
37.5°	6202.7	6242.8	6162.6	5963.3	5861.7	5879.3	6289.2	7258.2	7274.5	6872.1	4695.9
40°	6615.1	6667.8	6670.3	6388.2	6234.0	6254.1	6621.4	7732.0	7918.8	7481.3	4993.0
42.5°	6887.1	6938.5	6992.4	6827.0	6665.3	6779.3	7008.7	8246.0	8643.4	8220.9	5407.9
45°	7185.5	7231.9	7262.0	7186.7	7096.5	7392.3	7476.3	8792.6	9415.6	9047.0	5861.7
47.5°	7531.5	7582.9	7611.7	7540.3	7506.4	7930.1	7980.3	9302.8	10240.5	9849.3	6363.1
50°	7992.8	8031.7	8016.6	7971.5	7964.0	8342.5	8464.1	9780.4	10921.1	10713.0	6883.4
52.5°	8566.9	8613.3	8629.6	8565.7	8536.8	8637.1	8854.0	10215.4	11540.4	11455.2	7438.7
55°	8914.2	8988.1	9236.3	9336.6	9405.6	9018.2	9273.9	10695.5	12095.7	12237.4	8035.4
57.5°	8469.2	8564.4	9119.8	9621.2	10269.3	9970.9	9869.4	11196.9	12651.1	12995.8	8750.0
60°	7383.6	7404.9	8120.7	9044.5	10348.3	11195.7	11111.7	11994.2	13252.8	13760.5	9691.4
62.5°	5122.1	5167.2	6013.4	7487.6	9373.0	11636.9	13225.2	13370.6	14115.3	14905.0	11071.6
65°	2641.3	2582.4	3353.3	4705.9	7066.4	10588.9	14937.6	15901.6	15985.6	16695.1	13014.6
67.5°	1625.9	1652.2	2013.2	2747.8	4178.2	7695.7	14758.3	18994.2	18551.7	18892.6	14818.5
70°	1221.0	1253.6	1501.8	1880.4	2547.3	4400.0	11868.8	19743.8	20361.8	20274.1	15367.6
71°	1061.8	1095.6	1353.9	1711.1	2139.9	3395.9	9999.8	18959.1	20424.5	20409.4	15160.7
72.5°	905.1	926.4	1128.2	1449.1	1803.9	2380.5	7512.7	17003.5	19553.3	20053.4	14422.4
75°	710.8	727.1	817.3	1105.7	1420.3	1461.7	4031.5	12747.6	16059.5	17012.3	12006.7
77.5°	579.2	590.4	636.8	821.1	1095.6	1035.5	2114.8	8297.4	10061.2	11020.2	7072.7
80°	460.1	472.6	500.2	556.6	821.1	738.4	1009.1	4204.5	4860.1	4850.1	2823.1
82.5°	357.3	361.0	393.6	408.7	561.6	524.0	546.6	1780.1	1971.9	2037.1	1019.2
85°	225.6	236.9	348.5	313.4	336.0	307.1	269.5	707.0	871.2	858.7	407.4
87.5°	68.9	72.7	117.8	132.9	149.2	134.1	99.0	208.1	254.5	275.8	101.5
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°	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2	2799.2
2.5°	2815.5	2801.7	2752.8	2712.7	2675.1	2633.8	2598.7	2588.6	2579.9	2576.1	2574.8
5°	2841.9	2800.5	2704.0	2625.0	2562.3	2504.6	2468.3	2452.0	2435.7	2435.7	2440.7
7.5°	2879.5	2804.2	2655.1	2537.2	2458.3	2404.4	2378.0	2375.5	2379.3	2383.0	2384.3
10°	2920.8	2801.7	2583.6	2436.9	2366.7	2341.7	2342.9	2364.2	2384.3	2399.3	2401.8
12.5°	2960.9	2786.7	2499.6	2342.9	2297.8	2302.8	2337.9	2385.6	2424.4	2445.7	2447.0
15°	3006.1	2762.9	2398.1	2253.9	2238.9	2277.7	2342.9	2415.6	2474.6	2509.7	2513.4
17.5°	3043.7	2722.8	2291.5	2167.4	2186.2	2257.7	2347.9	2442.0	2513.4	2557.3	2564.8
20°	3086.3	2671.4	2181.2	2084.7	2138.6	2235.1	2337.9	2439.5	2513.4	2556.0	2566.1
22.5°	3120.1	2598.7	2075.9	2017.0	2096.0	2207.5	2304.1	2385.6	2445.7	2468.3	2483.3
25°	3133.9	2507.1	1976.9	1961.8	2062.1	2162.4	2227.6	2274.0	2292.8	2290.3	2296.5
27.5°	3126.4	2401.8	1891.6	1918.0	2019.5	2092.2	2124.8	2121.0	2087.2	2055.9	2070.9
30°	3095.1	2276.5	1820.2	1872.8	1964.4	2004.5	1999.5	1950.6	1886.6	1827.7	1831.5
32.5°	3038.7	2141.1	1753.8	1821.4	1886.6	1904.2	1870.3	1806.4	1714.9	1638.4	1627.1
35°	2991.0	2012.0	1694.8	1762.5	1808.9	1800.1	1767.5	1684.8	1602.1	1534.4	1523.1
37.5°	2983.5	1901.7	1638.4	1696.1	1722.4	1709.9	1669.8	1599.6	1569.5	1518.1	1511.8
40°	3023.6	1824.0	1580.8	1625.9	1638.4	1628.4	1584.5	1544.4	1572.0	1559.4	1559.4
42.5°	3132.7	1782.6	1529.4	1555.7	1565.7	1573.2	1541.9	1508.1	1541.9	1484.2	1465.4
45°	3305.7	1783.8	1483.0	1486.7	1516.8	1543.2	1521.8	1471.7	1454.1	1338.8	1316.3
47.5°	3560.2	1826.5	1445.4	1421.6	1475.5	1519.3	1489.2	1416.5	1338.8	1262.3	1248.6
50°	3857.2	1902.9	1411.5	1353.9	1420.3	1489.2	1466.7	1381.4	1301.2	1254.8	1246.1
52.5°	4186.9	1999.5	1370.2	1278.6	1352.6	1475.5	1471.7	1376.4	1266.1	1234.8	1227.2
55°	4594.4	2094.7	1318.8	1190.9	1292.4	1464.2	1457.9	1335.1	1258.6	1236.0	1233.5
57.5°	5068.2	2232.6	1244.8	1101.9	1223.5	1417.8	1404.0	1310.0	1233.5	1217.2	1216.0
60°	5831.6	2447.0	1139.5	1020.4	1153.3	1336.3	1353.9	1267.4	1193.4	1189.6	1188.4
62.5°	6835.7	2747.8	1030.4	936.4	1071.8	1231.0	1281.2	1209.7	1150.8	1169.6	1172.1
65°	8222.2	3001.1	917.6	865.0	981.5	1129.5	1212.2	1155.8	1103.1	1139.5	1139.5
67.5°	9126.0	3006.1	814.8	791.0	890.0	1044.2	1139.5	1091.9	1041.7	1103.1	1105.7
70°	8938.0	2633.8	729.6	713.3	801.0	952.7	1059.3	1021.7	964.0	1019.2	999.1
71°	8634.6	2426.9	695.7	683.2	765.9	908.8	1021.7	990.3	932.7	969.0	957.7
72.5°	8150.7	2107.3	640.6	643.1	713.3	853.7	969.0	936.4	878.8	898.8	895.1
75°	6889.6	1840.2	547.8	559.1	613.0	759.7	863.7	838.6	779.7	779.7	776.0
77.5°	4307.3	1286.2	455.0	461.3	520.2	650.6	742.1	720.8	664.4	645.6	640.6
80°	1607.1	664.4	356.0	363.5	399.9	512.7	614.3	594.2	536.5	515.2	495.2
82.5°	608.0	333.5	262.0	255.7	294.6	391.1	481.4	457.6	412.4	361.0	346.0
85°	229.4	165.5	160.5	155.4	173.0	231.9	298.4	293.3	245.7	209.3	205.6
87.5°	60.2	53.9	62.7	46.4	48.9	43.9	45.1	18.8	8.8	3.8	2.5
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)