

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: P456008

Luminaire Tested: **GALN-SA7B-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456008  
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-SA7B-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33334 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

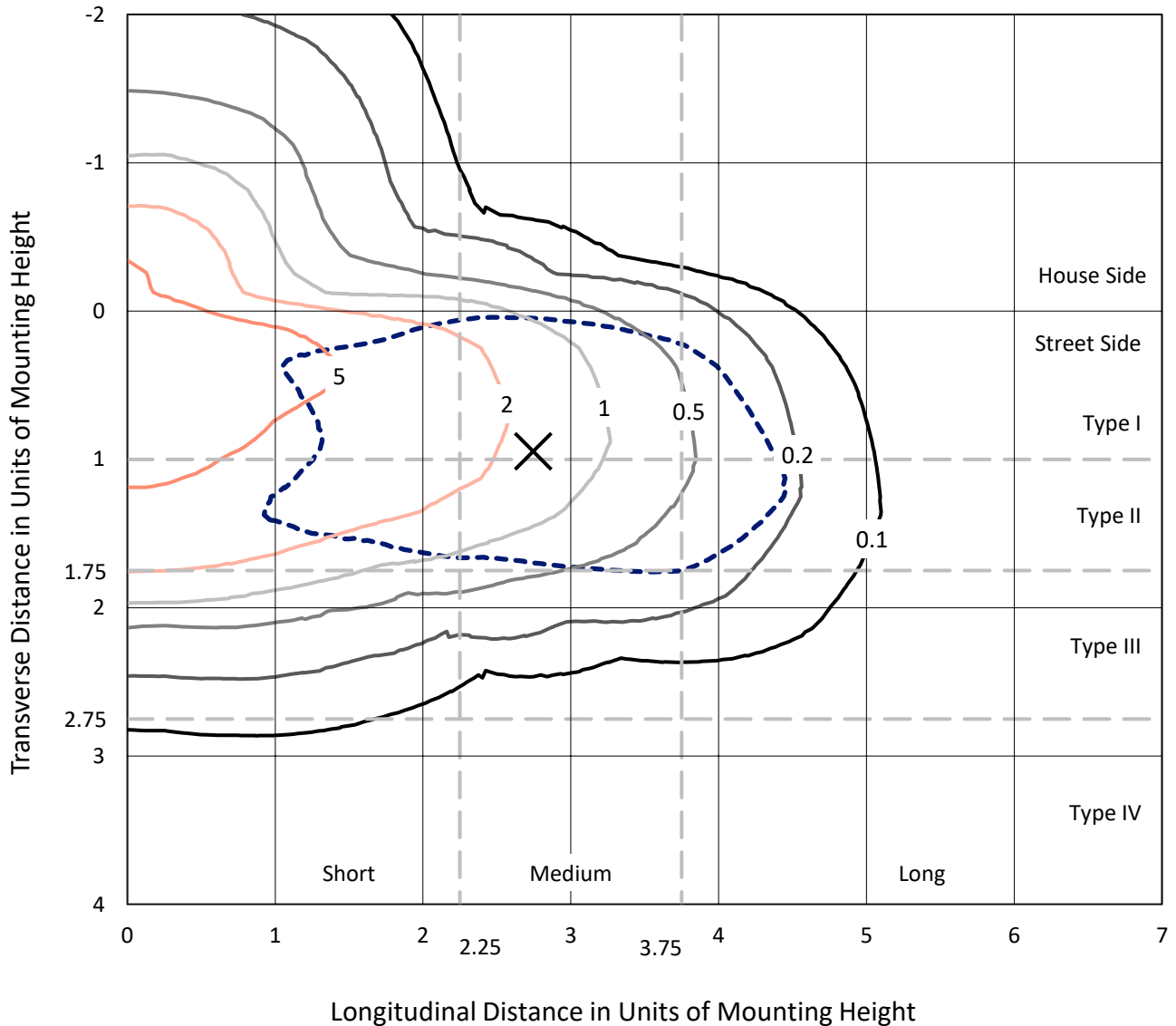
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

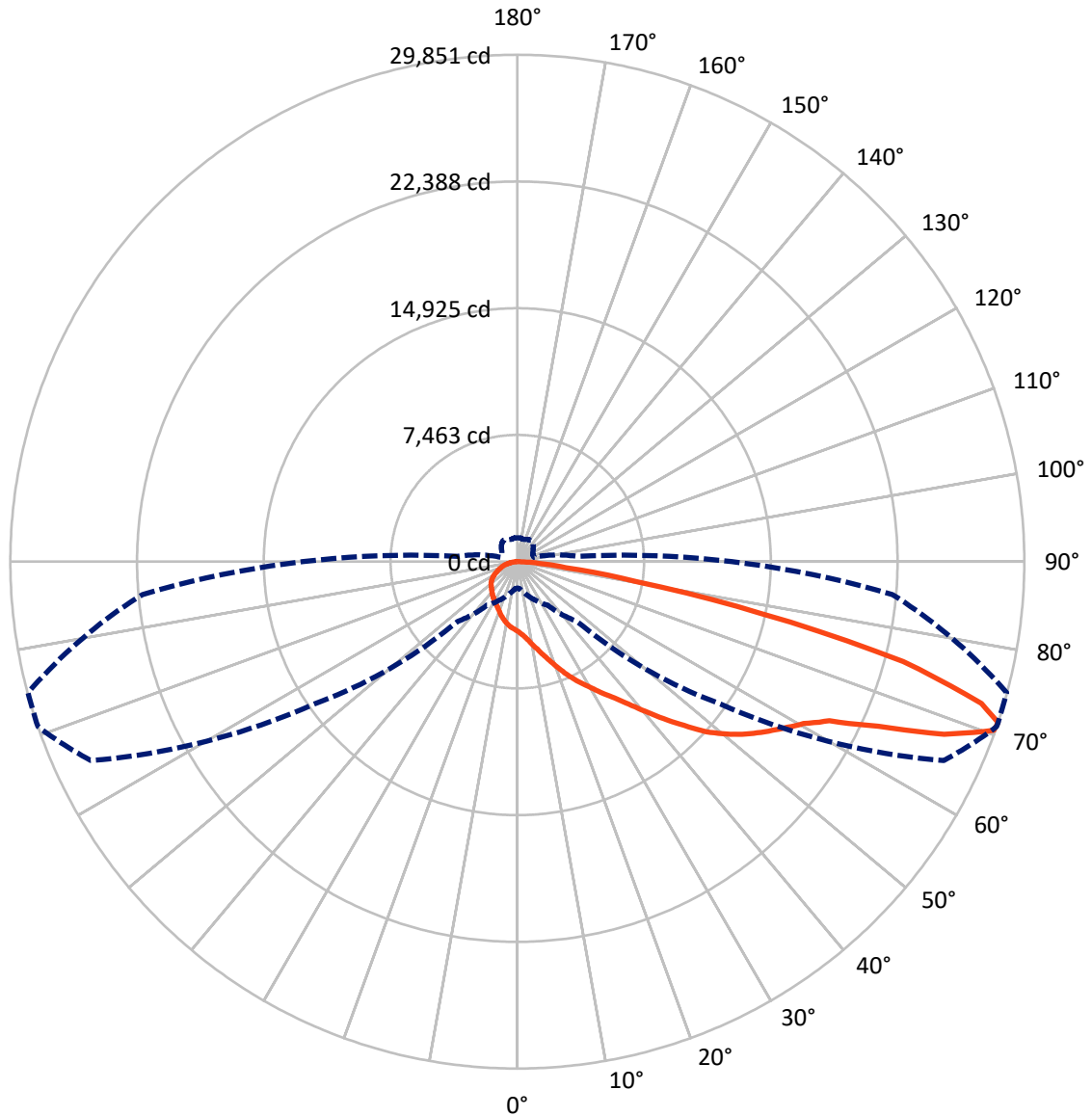
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	5995.0	0.0	5995.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	27339.0	0.0	27339.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	33334.0	0.0	33334.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.8	1.2
10°-20°	1334.6	4.0
20°-30°	2332.3	7.0
30°-40°	3469.0	10.4
40°-50°	5111.1	15.3
50°-60°	7155.6	21.5
60°-70°	8003.3	24.0
70°-80°	4888.7	14.7
80°-90°	628.9	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°	33334.0	100.0
0°-180°	33334.0	100.0

**Coefficient of Utilization**



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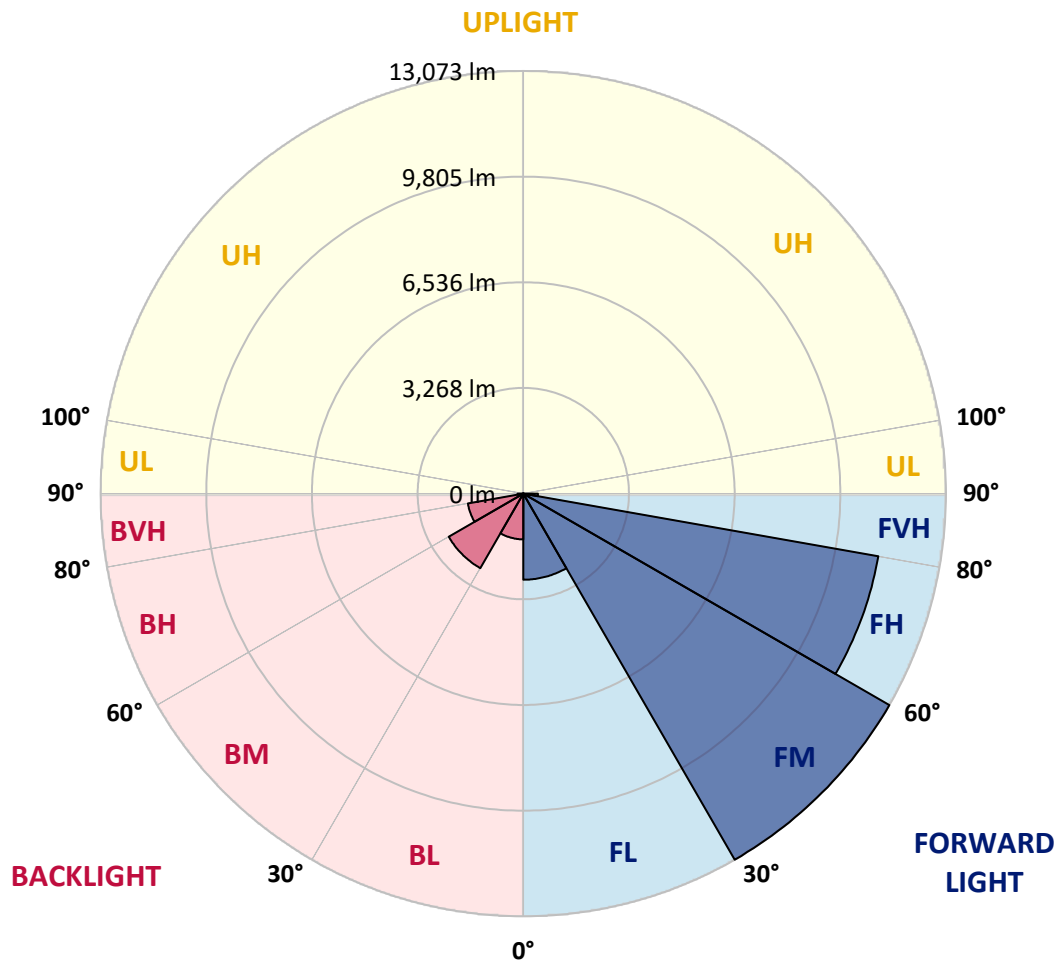
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2663.4	8.0			
FM	(30°-60°)	13072.9	39.2			
FH	(60°-80°)	11150.1	33.4			G4/12000
FVH	(80°-90°)	452.5	1.4			G3/500
BL	(0°-30°)	1414.2	4.2	B3/2500		
BM	(30°-60°)	2662.6	8.0	B3/5000		
BH	(60°-80°)	1741.8	5.2	B3/2500		G3/2500
BVH	(80°-90°)	176.4	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°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
2.5°	4541.8	4519.8	4521.6	4490.5	4450.2	4406.2	4343.9	4289.0	4245.0	4219.3	4144.2
5°	5032.8	5010.8	4983.3	4915.5	4886.2	4778.1	4640.7	4516.1	4420.9	4367.7	4217.5
7.5°	5430.4	5424.9	5417.5	5379.1	5303.9	5153.7	5036.5	4820.3	4679.2	4578.4	4321.9
10°	5675.9	5685.0	5690.5	5697.8	5666.7	5587.9	5426.7	5153.7	4974.2	4845.9	4457.5
12.5°	5800.4	5809.6	5840.8	5908.5	5950.7	5941.5	5809.6	5542.1	5294.8	5126.2	4602.2
15°	5877.4	5892.1	5947.0	6036.8	6177.9	6267.6	6203.5	5956.2	5685.0	5485.3	4774.5
17.5°	5961.7	5978.2	6038.6	6166.9	6351.9	6546.1	6615.7	6403.2	6108.2	5870.1	4966.8
20°	6009.3	6031.3	6117.4	6286.0	6502.1	6784.3	7015.1	6903.4	6580.9	6317.1	5188.5
22.5°	6086.3	6104.6	6177.9	6357.4	6615.7	6969.3	7414.5	7390.7	7106.7	6766.0	5432.2
25°	6295.1	6324.4	6361.1	6469.2	6718.3	7158.0	7746.1	7911.0	7616.1	7235.0	5655.7
27.5°	6689.0	6712.8	6711.0	6725.7	6866.7	7321.1	8033.8	8425.9	8121.7	7709.5	5871.9
30°	7137.9	7147.0	7154.4	7121.4	7152.5	7487.8	8297.6	8935.2	8631.0	8196.8	6060.6
32.5°	7683.8	7702.2	7639.9	7555.6	7530.0	7735.1	8515.6	9444.5	9233.8	8691.5	6247.5
35°	8328.8	8376.4	8250.0	8101.6	7997.1	8090.6	8808.8	9964.8	9851.2	9323.6	6494.8
37.5°	9065.3	9123.9	9006.6	8715.3	8566.9	8592.6	9191.7	10607.9	10631.7	10043.6	6863.1
40°	9668.0	9745.0	9748.6	9336.4	9111.1	9140.4	9677.2	11300.4	11573.4	10934.0	7297.3
42.5°	10065.6	10140.7	10219.5	9977.6	9741.3	9908.0	10243.3	12051.6	12632.4	12014.9	7903.7
45°	10501.6	10569.4	10613.4	10503.5	10371.5	10803.9	10926.7	12850.4	13760.9	13222.3	8566.9
47.5°	11007.3	11082.4	11124.5	11020.1	10970.6	11589.9	11663.2	13596.1	14966.5	14394.9	9299.8
50°	11681.5	11738.3	11716.3	11650.4	11639.4	12192.7	12370.4	14294.1	15961.3	15657.2	10060.1
52.5°	12520.6	12588.4	12612.2	12518.8	12476.6	12623.2	12940.2	14929.8	16866.4	16741.8	10871.7
55°	13028.1	13136.2	13499.0	13645.5	13746.3	13180.2	13553.9	15631.5	17678.0	17885.0	11743.8
57.5°	12377.7	12516.9	13328.6	14061.4	15008.6	14572.6	14424.2	16364.4	18489.6	18993.4	12788.1
60°	10791.1	10822.2	11868.4	13218.6	15124.0	16362.5	16239.8	17529.6	19369.0	20111.0	14164.0
62.5°	7486.0	7551.9	8788.6	10943.2	13698.7	17007.4	19328.7	19541.2	20629.5	21783.7	16181.2
65°	3860.2	3774.1	4900.9	6877.7	10327.6	15475.8	21831.4	23240.3	23363.0	24400.0	19020.9
67.5°	2376.2	2414.7	2942.4	4016.0	6106.4	11247.3	21569.4	27760.1	27113.3	27611.7	21657.3
70°	1784.5	1832.1	2194.9	2748.2	3722.8	6430.7	17346.4	28855.7	29758.9	29630.6	22459.8
71°	1551.8	1601.3	1978.7	2500.8	3127.4	4963.2	14614.7	27708.8	29850.5	29828.5	22157.5
72.5°	1322.8	1353.9	1648.9	2117.9	2636.4	3479.2	10979.8	24850.7	28577.2	29308.2	21078.4
75°	1038.8	1062.6	1194.5	1615.9	2075.8	2136.2	5892.1	18630.7	23471.1	24863.5	17547.9
77.5°	846.4	862.9	930.7	1200.0	1601.3	1513.3	3090.8	12126.7	14704.5	16106.0	10336.7
80°	672.4	690.7	731.0	813.5	1200.0	1079.1	1474.8	6144.9	7103.1	7088.4	4125.9
82.5°	522.1	527.6	575.3	597.3	820.8	765.8	798.8	2601.6	2881.9	2977.2	1489.5
85°	329.8	346.3	509.3	458.0	491.0	448.9	393.9	1033.3	1273.3	1255.0	595.4
87.5°	100.8	106.3	172.2	194.2	218.0	196.0	144.7	304.1	371.9	403.1	148.4
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°	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1	4091.1
2.5°	4114.9	4094.8	4023.3	3964.7	3909.7	3849.3	3798.0	3783.3	3770.5	3765.0	3763.1
5°	4153.4	4092.9	3951.9	3836.4	3744.8	3660.5	3607.4	3583.6	3559.8	3559.8	3567.1
7.5°	4208.3	4098.4	3880.4	3708.2	3592.8	3514.0	3475.5	3471.8	3477.3	3482.8	3484.7
10°	4268.8	4094.8	3776.0	3561.6	3459.0	3422.4	3424.2	3455.4	3484.7	3506.6	3510.3
12.5°	4327.4	4072.8	3653.2	3424.2	3358.2	3365.6	3416.9	3486.5	3543.3	3574.4	3576.3
15°	4393.4	4038.0	3504.8	3294.1	3272.1	3328.9	3424.2	3530.5	3616.6	3667.9	3673.4
17.5°	4448.4	3979.3	3349.1	3167.7	3195.2	3299.6	3431.5	3568.9	3673.4	3737.5	3748.5
20°	4510.6	3904.2	3187.9	3046.8	3125.6	3266.6	3416.9	3565.3	3673.4	3735.7	3750.3
22.5°	4560.1	3798.0	3034.0	2947.9	3063.3	3226.3	3367.4	3486.5	3574.4	3607.4	3629.4
25°	4580.3	3664.2	2889.2	2867.2	3013.8	3160.4	3255.7	3323.4	3350.9	3347.3	3356.4
27.5°	4569.3	3510.3	2764.6	2803.1	2951.5	3057.8	3105.4	3099.9	3050.5	3004.7	3026.6
30°	4523.5	3327.1	2660.2	2737.2	2870.9	2929.5	2922.2	2850.8	2757.3	2671.2	2676.7
32.5°	4441.0	3129.2	2563.1	2662.0	2757.3	2783.0	2733.5	2640.1	2506.3	2394.6	2378.1
35°	4371.4	2940.5	2477.0	2575.9	2643.7	2630.9	2583.3	2462.3	2341.4	2242.5	2226.0
37.5°	4360.4	2779.3	2394.6	2478.8	2517.3	2499.0	2440.4	2337.8	2293.8	2218.7	2209.5
40°	4419.0	2665.7	2310.3	2376.2	2394.6	2379.9	2315.8	2257.2	2297.5	2279.1	2279.1
42.5°	4578.4	2605.3	2235.2	2273.6	2288.3	2299.3	2253.5	2204.0	2253.5	2169.2	2141.7
45°	4831.3	2607.1	2167.4	2172.9	2216.8	2255.3	2224.2	2150.9	2125.2	1956.7	1923.7
47.5°	5203.2	2669.4	2112.4	2077.6	2156.4	2220.5	2176.5	2070.3	1956.7	1844.9	1824.8
50°	5637.4	2781.1	2063.0	1978.7	2075.8	2176.5	2143.6	2019.0	1901.7	1833.9	1821.1
52.5°	6119.2	2922.2	2002.5	1868.7	1976.8	2156.4	2150.9	2011.7	1850.4	1804.6	1793.6
55°	6714.7	3061.4	1927.4	1740.5	1888.9	2139.9	2130.7	1951.2	1839.4	1806.5	1802.8
57.5°	7407.2	3263.0	1819.3	1610.4	1788.1	2072.1	2052.0	1914.5	1802.8	1779.0	1777.1
60°	8523.0	3576.3	1665.4	1491.3	1685.5	1953.0	1978.7	1852.3	1744.2	1738.7	1736.8
62.5°	9990.5	4016.0	1506.0	1368.6	1566.4	1799.1	1872.4	1768.0	1681.9	1709.4	1713.0
65°	12016.8	4386.1	1341.1	1264.2	1434.5	1650.7	1771.6	1689.2	1612.3	1665.4	1665.4
67.5°	13337.7	4393.4	1190.9	1156.1	1300.8	1526.1	1665.4	1595.8	1522.5	1612.3	1615.9
70°	13062.9	3849.3	1066.3	1042.5	1170.7	1392.4	1548.1	1493.2	1408.9	1489.5	1460.2
71°	12619.5	3547.0	1016.8	998.5	1119.4	1328.3	1493.2	1447.4	1363.1	1416.2	1399.7
72.5°	11912.3	3079.8	936.2	939.9	1042.5	1247.7	1416.2	1368.6	1284.3	1313.6	1308.1
75°	10069.3	2689.5	800.6	817.1	895.9	1110.3	1262.3	1225.7	1139.6	1139.6	1134.1
77.5°	6295.1	1879.7	665.1	674.2	760.3	950.9	1084.6	1053.5	971.0	943.5	936.2
80°	2348.8	971.0	520.3	531.3	584.4	749.3	897.7	868.4	784.1	753.0	723.7
82.5°	888.6	487.3	382.9	373.7	430.5	571.6	703.5	668.7	602.8	527.6	505.7
85°	335.3	241.8	234.5	227.2	252.8	338.9	436.0	428.7	359.1	306.0	300.5
87.5°	87.9	78.8	91.6	67.8	71.5	64.1	66.0	27.5	12.8	5.5	3.7
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)