

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: P457632

Luminaire Tested: **GALN-SA9A-727-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457632  
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-SA9A-727-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 34869 lumens  
Efficiency: N/A  
Efficacy: 127.3 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

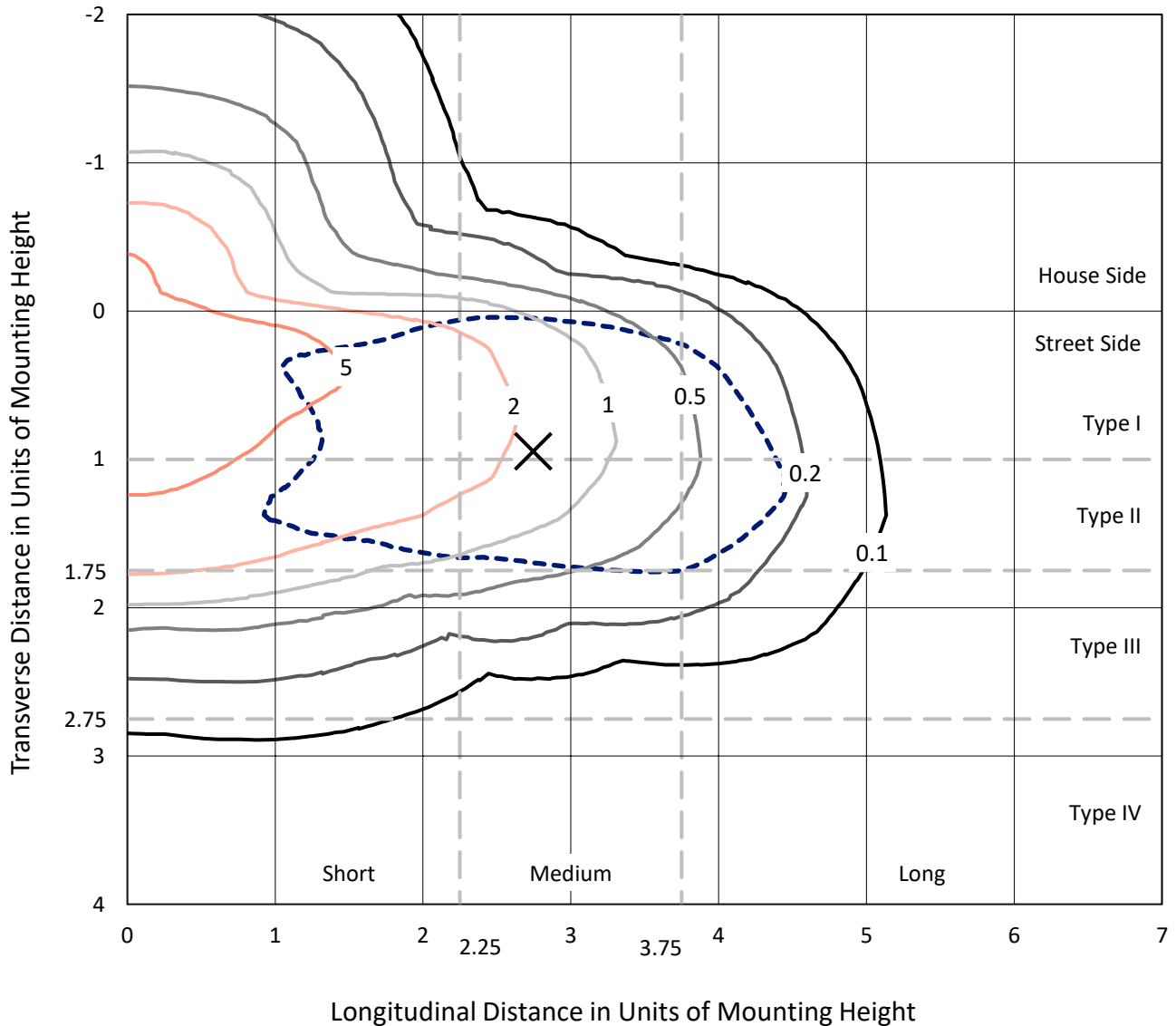
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

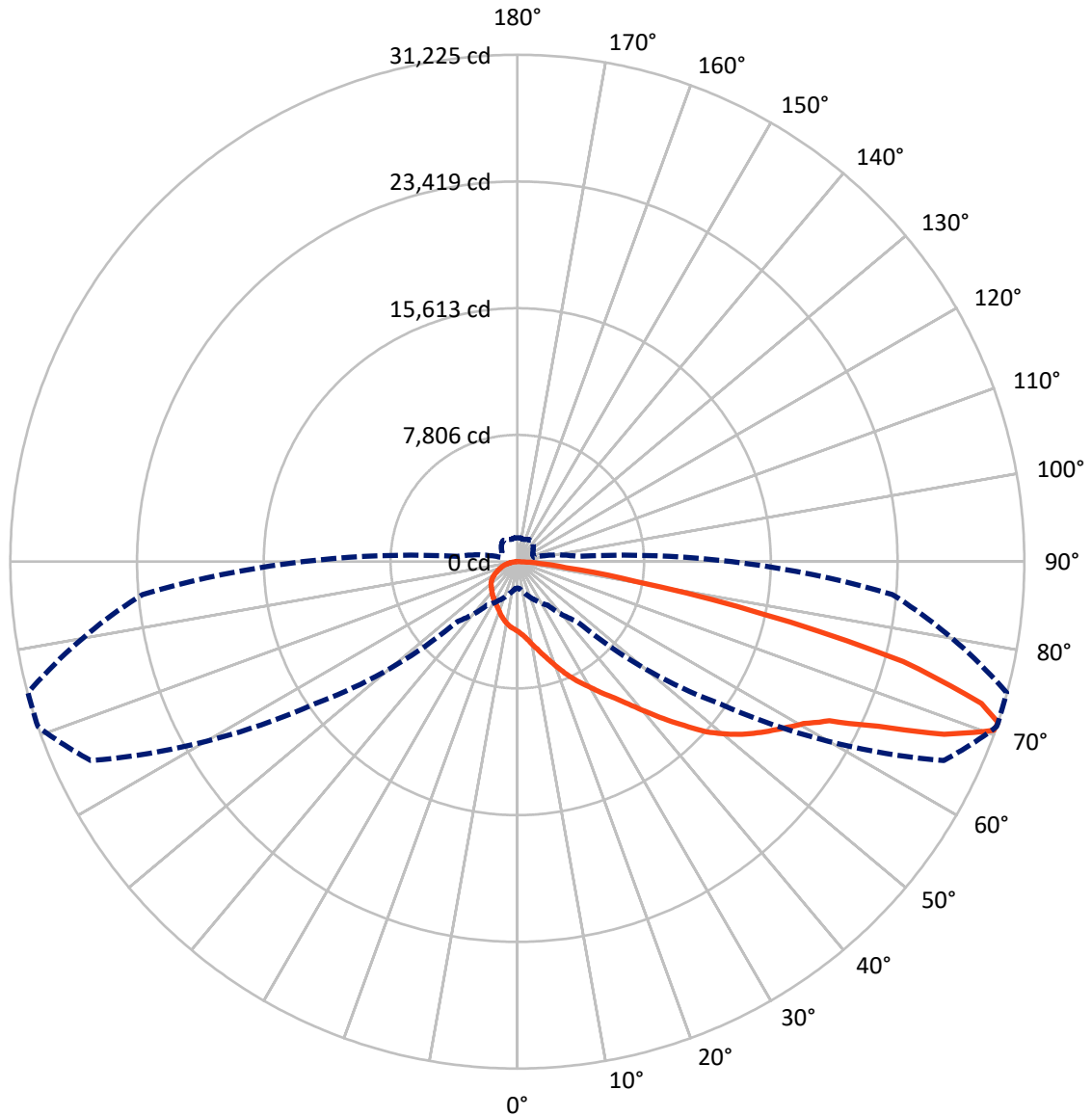
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	6271.1	0.0	6271.1
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	28597.9	0.0	28597.9
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	34869.0	0.0	34869.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.7	1.2
10°-20°	1396.0	4.0
20°-30°	2439.7	7.0
30°-40°	3628.7	10.4
40°-50°	5346.4	15.3
50°-60°	7485.1	21.5
60°-70°	8371.8	24.0
70°-80°	5113.8	14.7
80°-90°	657.8	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°	34869.0	100.0
0°-180°	34869.0	100.0

**Coefficient of Utilization**



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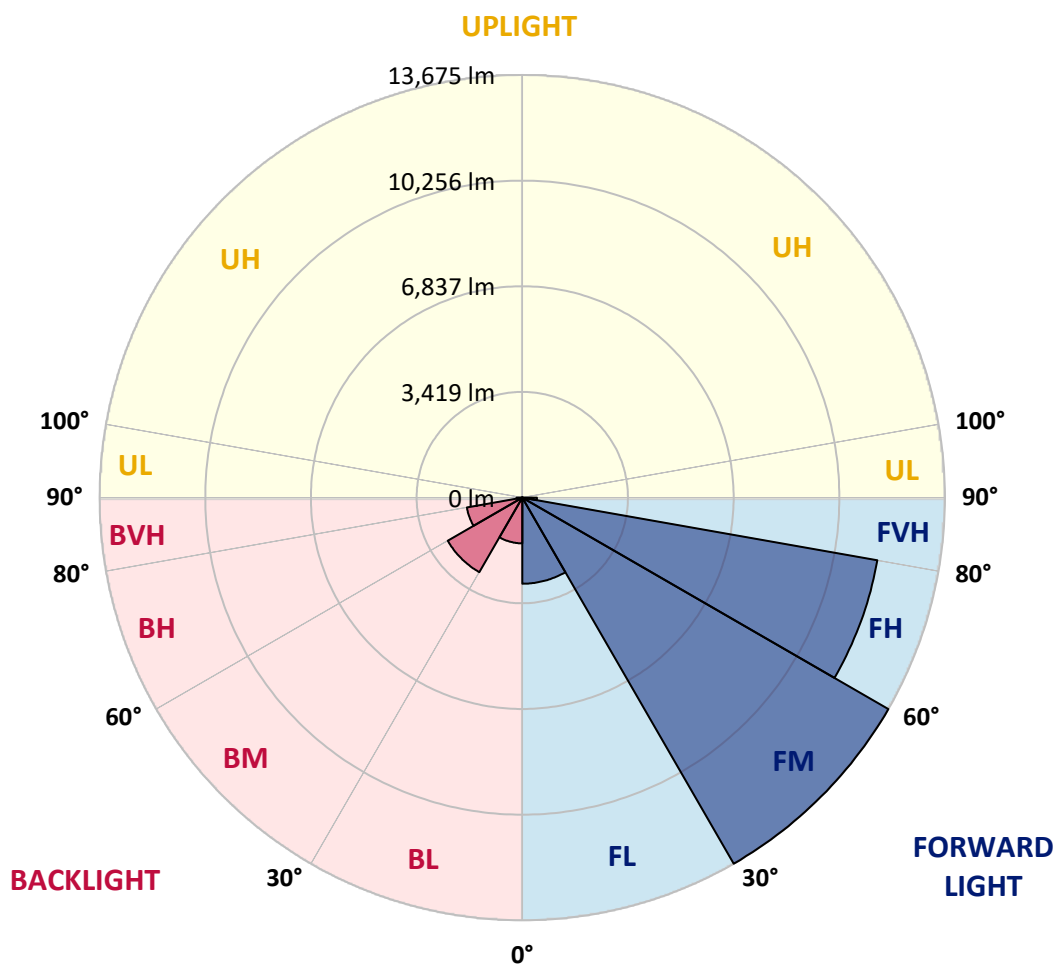
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2786.1	8.0			
FM (30°-60°)	13674.9	39.2			
FH (60°-80°)	11663.6	33.4			G4/12000
FVH (80°-90°)	473.3	1.4			G3/500
BL (0°-30°)	1479.3	4.2	B3/2500		
BM (30°-60°)	2785.2	8.0	B3/5000		
BH (60°-80°)	1822.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	184.5	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°	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5
2.5°	4750.9	4727.9	4729.9	4697.3	4655.1	4609.1	4544.0	4486.5	4440.5	4413.6	4335.1
5°	5264.5	5241.6	5212.8	5141.9	5111.2	4998.2	4854.4	4724.1	4624.4	4568.9	4411.7
7.5°	5680.4	5674.7	5667.0	5626.8	5548.2	5391.0	5268.4	5042.2	4894.7	4789.3	4521.0
10°	5937.2	5946.8	5952.6	5960.2	5927.6	5845.2	5676.6	5391.0	5203.2	5069.1	4662.8
12.5°	6067.6	6077.1	6109.7	6180.6	6224.7	6215.1	6077.1	5797.3	5538.6	5362.3	4814.2
15°	6148.0	6163.4	6220.9	6314.8	6462.3	6556.3	6489.2	6230.5	5946.8	5737.9	4994.3
17.5°	6236.2	6253.4	6316.7	6450.8	6644.4	6847.6	6920.4	6698.1	6389.5	6140.4	5195.6
20°	6286.0	6309.0	6399.1	6575.4	6801.6	7096.7	7338.2	7221.3	6884.0	6608.0	5427.4
22.5°	6366.5	6385.7	6462.3	6650.2	6920.4	7290.3	7756.0	7731.0	7434.0	7077.5	5682.3
25°	6585.0	6615.7	6654.0	6767.1	7027.7	7487.7	8102.8	8275.3	7966.8	7568.1	5916.1
27.5°	6997.0	7022.0	7020.0	7035.4	7182.9	7658.2	8403.7	8813.9	8495.7	8064.5	6142.3
30°	7466.6	7476.2	7483.8	7449.3	7481.9	7832.6	8679.7	9346.6	9028.5	8574.3	6339.7
32.5°	8037.7	8056.8	7991.7	7903.5	7876.7	8091.3	8907.8	9879.4	9659.0	9091.7	6535.2
35°	8712.3	8762.1	8629.9	8474.6	8365.4	8463.1	9214.4	10423.7	10304.9	9752.9	6793.9
37.5°	9482.7	9544.0	9421.4	9116.7	8961.4	8988.3	9614.9	11096.4	11121.3	10506.1	7179.1
40°	10113.2	10193.7	10197.5	9766.3	9530.6	9561.3	10122.8	11820.8	12106.4	11437.5	7633.3
42.5°	10529.1	10607.7	10690.1	10437.1	10189.9	10364.3	10715.0	12606.6	13214.1	12568.2	8267.7
45°	10985.2	11056.1	11102.1	10987.1	10849.1	11301.4	11429.8	13442.1	14394.6	13831.2	8961.4
47.5°	11514.2	11592.7	11636.8	11527.6	11475.8	12123.6	12200.3	14222.1	15655.7	15057.7	9728.0
50°	12219.4	12278.8	12255.8	12186.8	12175.3	12754.1	12940.0	14952.3	16696.3	16378.2	10523.3
52.5°	13097.2	13168.1	13193.0	13095.3	13051.2	13204.5	13536.0	15617.3	17643.0	17512.7	11372.3
55°	13628.0	13741.1	14120.6	14273.9	14379.3	13787.1	14178.1	16351.3	18492.0	18708.6	12284.6
57.5°	12947.7	13093.3	13942.3	14708.9	15699.7	15243.6	15088.4	17117.9	19341.0	19868.1	13377.0
60°	11288.0	11320.6	12414.9	13827.3	15820.5	17116.0	16987.6	18336.8	20260.9	21037.1	14816.2
62.5°	7830.7	7899.7	9193.3	11447.1	14329.5	17790.6	20218.8	20441.1	21579.5	22786.9	16926.3
65°	4038.0	3947.9	5126.6	7194.4	10803.2	16188.4	22836.7	24310.4	24438.9	25523.6	19896.8
67.5°	2485.7	2525.9	3077.9	4200.9	6387.6	11765.2	22562.6	29038.4	28361.9	28883.1	22654.6
70°	1866.6	1916.5	2295.9	2874.7	3894.3	6726.8	18145.2	30184.4	31129.3	30995.1	23494.0
71°	1623.3	1675.0	2069.8	2616.0	3271.4	5191.7	15287.7	28984.7	31225.1	31202.1	23177.8
72.5°	1383.7	1416.3	1724.8	2215.4	2757.8	3639.4	11485.4	25995.0	29893.1	30657.8	22049.0
75°	1086.6	1111.6	1249.5	1690.3	2171.4	2234.6	6163.4	19488.6	24551.9	26008.4	18356.0
77.5°	885.4	902.7	973.6	1255.3	1675.0	1583.0	3233.1	12685.1	15381.6	16847.7	10812.7
80°	703.3	722.5	764.7	850.9	1255.3	1128.8	1542.8	6427.8	7430.2	7414.8	4315.9
82.5°	546.2	551.9	601.8	624.8	858.6	801.1	835.6	2721.4	3014.6	3114.3	1558.1
85°	345.0	362.2	532.8	479.1	513.6	469.5	412.0	1080.9	1331.9	1312.8	622.9
87.5°	105.4	111.2	180.1	203.1	228.1	205.1	151.4	318.1	389.0	421.6	155.2
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°	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5	4279.5
2.5°	4304.4	4283.3	4208.6	4147.2	4089.8	4026.5	3972.8	3957.5	3944.1	3938.3	3936.4
5°	4344.6	4281.4	4133.8	4013.1	3917.3	3829.1	3773.5	3748.6	3723.7	3723.7	3731.4
7.5°	4402.1	4287.1	4059.1	3878.9	3758.2	3675.8	3635.5	3631.7	3637.5	3643.2	3645.1
10°	4465.4	4283.3	3949.8	3725.6	3618.3	3580.0	3581.9	3614.5	3645.1	3668.1	3672.0
12.5°	4526.7	4260.3	3821.4	3581.9	3512.9	3520.6	3574.2	3647.0	3706.5	3739.0	3741.0
15°	4595.7	4223.9	3666.2	3445.8	3422.8	3482.2	3581.9	3693.0	3783.1	3836.8	3842.5
17.5°	4653.2	4162.6	3503.3	3313.6	3342.3	3451.6	3589.6	3733.3	3842.5	3909.6	3921.1
20°	4718.4	4084.0	3334.7	3187.1	3269.5	3417.1	3574.2	3729.5	3842.5	3907.7	3923.0
22.5°	4770.1	3972.8	3173.7	3083.6	3204.3	3374.9	3522.5	3647.0	3739.0	3773.5	3796.5
25°	4791.2	3832.9	3022.3	2999.3	3152.6	3305.9	3405.6	3476.5	3505.2	3501.4	3511.0
27.5°	4779.7	3672.0	2892.0	2932.2	3087.4	3198.6	3248.4	3242.7	3190.9	3143.0	3166.0
30°	4731.8	3480.3	2782.7	2863.2	3003.1	3064.4	3056.8	2982.0	2884.3	2794.2	2800.0
32.5°	4645.5	3273.3	2681.1	2784.6	2884.3	2911.1	2859.4	2761.6	2621.7	2504.8	2487.6
35°	4572.7	3075.9	2591.1	2694.6	2765.5	2752.1	2702.2	2575.7	2449.3	2345.8	2328.5
37.5°	4561.2	2907.3	2504.8	2593.0	2633.2	2614.1	2552.7	2445.4	2399.4	2320.8	2311.3
40°	4622.5	2788.5	2416.7	2485.7	2504.8	2489.5	2422.4	2361.1	2403.3	2384.1	2384.1
42.5°	4789.3	2725.2	2338.1	2378.3	2393.7	2405.2	2357.3	2305.5	2357.3	2269.1	2240.4
45°	5053.7	2727.1	2267.2	2272.9	2318.9	2359.2	2326.6	2249.9	2223.1	2046.8	2012.3
47.5°	5442.8	2792.3	2209.7	2173.3	2255.7	2322.8	2276.8	2165.6	2046.8	1929.9	1908.8
50°	5897.0	2909.2	2157.9	2069.8	2171.4	2276.8	2242.3	2112.0	1989.3	1918.4	1905.0
52.5°	6401.0	3056.8	2094.7	1954.8	2067.9	2255.7	2249.9	2104.3	1935.6	1887.7	1876.2
55°	7023.9	3202.4	2016.1	1820.6	1975.9	2238.4	2228.9	2041.0	1924.1	1889.6	1885.8
57.5°	7748.3	3413.2	1903.1	1684.6	1870.5	2167.5	2146.4	2002.7	1885.8	1860.9	1859.0
60°	8915.4	3741.0	1742.1	1560.0	1763.2	2043.0	2069.8	1937.6	1824.5	1818.7	1816.8
62.5°	10450.5	4200.9	1575.3	1431.6	1638.6	1882.0	1958.6	1849.4	1759.3	1788.1	1791.9
65°	12570.1	4588.0	1402.9	1322.4	1500.6	1726.7	1853.2	1767.0	1686.5	1742.1	1742.1
67.5°	13951.9	4595.7	1245.7	1209.3	1360.7	1596.4	1742.1	1669.2	1592.6	1686.5	1690.3
70°	13664.4	4026.5	1115.4	1090.5	1224.6	1456.5	1619.4	1561.9	1473.8	1558.1	1527.4
71°	13200.7	3710.3	1063.6	1044.5	1171.0	1389.4	1561.9	1514.0	1425.9	1481.4	1464.2
72.5°	12460.9	3221.6	979.3	983.2	1090.5	1305.1	1481.4	1431.6	1343.4	1374.1	1368.4
75°	10532.9	2813.4	837.5	854.7	937.2	1161.4	1320.4	1282.1	1192.0	1192.0	1186.3
77.5°	6585.0	1966.3	695.7	705.3	795.3	994.6	1134.6	1102.0	1015.7	987.0	979.3
80°	2456.9	1015.7	544.3	555.8	611.4	783.8	939.1	908.4	820.3	787.7	757.0
82.5°	929.5	509.8	400.5	391.0	450.4	597.9	735.9	699.5	630.5	551.9	528.9
85°	350.7	253.0	245.3	237.6	264.5	354.5	456.1	448.5	375.6	320.1	314.3
87.5°	92.0	82.4	95.8	70.9	74.7	67.1	69.0	28.7	13.4	5.7	3.8
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)