

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: P454624

Luminaire Tested: **GALN-SA5D-727-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454624  
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-SA5D-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA 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: 32328 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

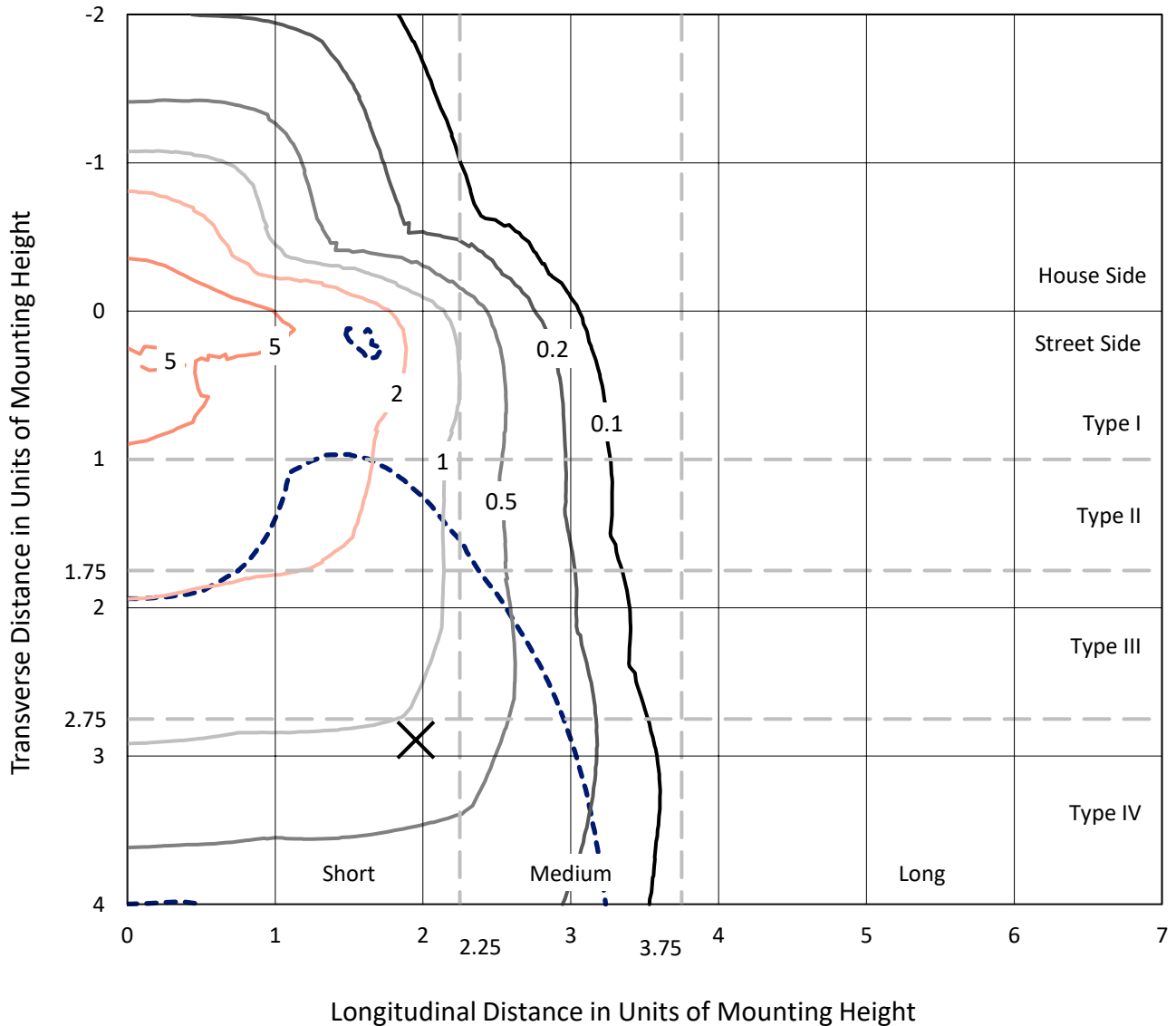
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

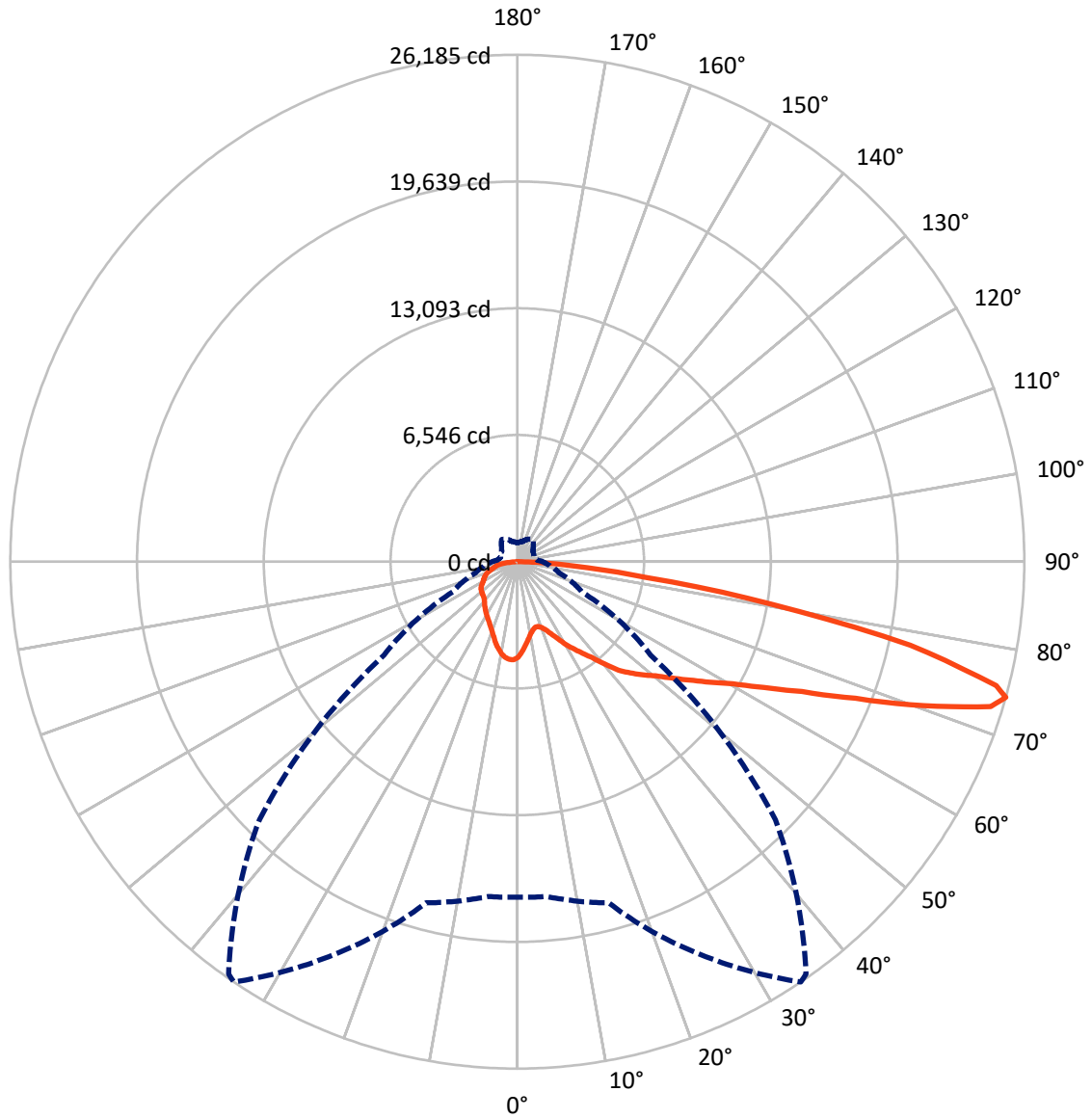
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	6879.6	0.0	6879.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	25448.4	0.0	25448.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	32328.0	0.0	32328.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.9	1.4
10°-20°	1228.8	3.8
20°-30°	2026.0	6.3
30°-40°	3034.7	9.4
40°-50°	4411.7	13.6
50°-60°	6162.1	19.1
60°-70°	7714.6	23.9
70°-80°	6379.4	19.7
80°-90°	921.8	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°	32328.0	100.0
0°-180°	32328.0	100.0

**Coefficient of Utilization**



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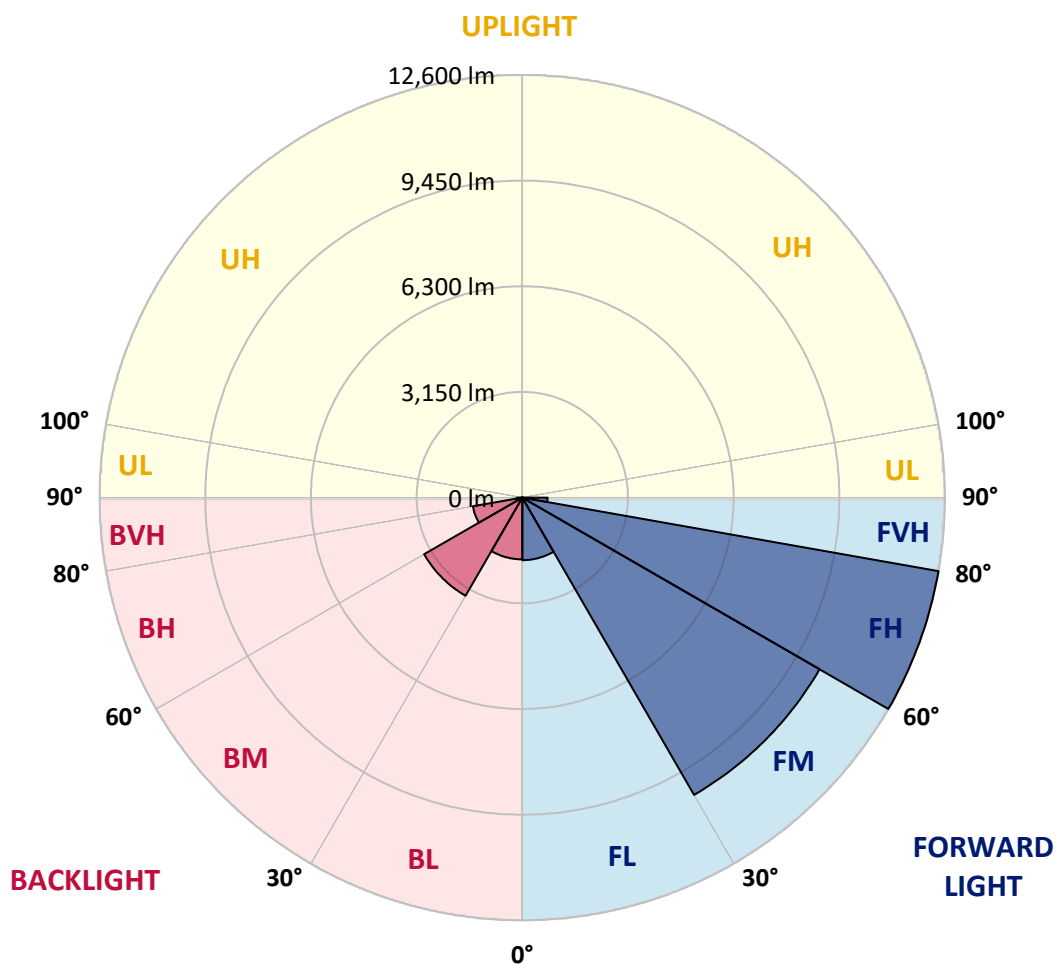
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.6	5.8			
FM	(30°-60°)	10229.9	31.6			
FH	(60°-80°)	12599.7	39.0			G5
FVH	(80°-90°)	755.1	2.3			G5
BL	(0°-30°)	1840.2	5.7	B3/2500		
BM	(30°-60°)	3378.6	10.5	B3/5000		
BH	(60°-80°)	1494.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	166.6	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-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8
2.5°	4561.5	4584.8	4597.4	4642.1	4652.9	4667.2	4704.8	4755.0	4819.4	4876.7	4926.9
5°	4181.9	4217.7	4239.2	4278.6	4355.6	4362.7	4463.0	4577.7	4708.4	4830.2	4930.5
7.5°	3821.9	3861.3	3879.2	3950.8	4052.9	4069.0	4215.9	4396.8	4615.3	4799.7	4953.8
10°	3551.4	3571.1	3610.5	3664.3	3786.1	3796.8	3988.4	4230.2	4513.2	4785.4	4993.2
12.5°	3404.6	3415.3	3424.3	3481.6	3601.6	3617.7	3818.3	4092.3	4432.6	4796.2	5057.6
15°	3426.1	3429.7	3390.3	3401.0	3497.7	3521.0	3719.8	4001.0	4382.4	4823.0	5154.3
17.5°	3607.0	3594.4	3497.7	3447.6	3515.6	3526.4	3700.1	3965.2	4359.2	4873.2	5254.6
20°	3891.7	3873.8	3707.3	3596.2	3635.6	3644.6	3764.6	3992.0	4382.4	4955.5	5410.4
22.5°	4246.3	4239.2	3986.6	3852.3	3850.5	3850.5	3913.2	4088.7	4452.3	5068.4	5573.4
25°	4742.4	4704.8	4375.3	4201.6	4153.2	4149.6	4142.5	4248.1	4541.8	5188.4	5766.8
27.5°	5251.1	5186.6	4892.9	4626.0	4522.1	4509.6	4463.0	4473.8	4656.5	5324.5	5987.1
30°	5707.7	5666.6	5390.7	5095.2	4971.7	4943.0	4814.1	4755.0	4848.1	5569.8	6338.2
32.5°	6057.0	6031.9	5817.0	5548.3	5365.7	5360.3	5172.3	5123.9	5147.2	5867.1	6739.3
35°	6339.9	6348.9	6239.7	6006.8	5797.3	5766.8	5641.5	5580.6	5512.5	6297.0	7244.4
37.5°	6726.8	6746.5	6739.3	6538.7	6282.6	6289.8	6261.1	6160.9	5980.0	6776.9	7804.9
40°	7153.0	7167.4	7165.6	7088.6	6954.2	6961.4	6950.7	6836.0	6565.6	7387.7	8428.2
42.5°	7742.3	7674.2	7496.9	7573.9	7652.7	7686.7	7760.2	7650.9	7280.2	8039.6	9013.8
45°	8401.3	8272.4	7871.2	7907.0	8198.9	8263.4	8668.2	8517.7	8055.7	8788.2	9703.3
47.5°	8816.8	8689.7	8351.2	8344.0	8730.9	8793.5	9509.9	9454.4	8761.3	9595.9	10545.1
50°	9187.6	9169.6	8788.2	8879.5	9257.4	9350.5	10426.9	10374.9	9465.1	10548.7	11462.1
52.5°	9737.4	9592.3	9287.8	9475.9	9975.6	10097.4	11336.7	11184.5	10111.7	11390.4	12352.2
55°	9984.5	9950.5	9932.6	10095.6	10781.5	10869.2	12221.4	11872.2	10663.3	12103.2	13029.1
57.5°	10645.4	10582.7	10760.0	10871.0	11730.7	11865.0	13145.5	12590.3	11146.8	12669.1	13358.7
60°	11501.5	11467.4	11630.4	11831.0	12790.9	12995.1	14198.6	13202.9	11535.5	12953.9	13177.8
62.5°	12780.2	12776.6	12746.2	13176.0	14293.5	14481.6	15407.5	13799.2	11596.4	12740.8	12242.9
65°	14614.1	14549.6	14284.6	14753.8	16163.3	16383.6	16666.5	14132.4	11229.2	11646.5	10308.7
67.5°	16532.2	16528.6	16313.7	16922.6	18847.9	19075.4	18240.8	14058.9	10210.2	9434.7	7321.4
70°	18122.6	18045.6	18319.6	19942.2	22277.6	22540.8	19618.0	13193.9	8132.7	6230.7	4350.2
72.5°	18504.1	18507.6	19077.2	22270.4	25571.1	25612.3	20114.1	10693.7	5442.7	3436.8	2176.0
74°	17329.2	17359.6	18242.6	22386.8	26185.4	25999.2	18846.1	8404.9	3680.4	2244.1	1568.9
75°	15817.6	15626.0	16902.9	21611.3	25547.8	25347.3	17361.4	6744.7	2808.2	1792.7	1373.7
77.5°	8456.8	8652.1	10622.1	16127.5	20755.3	20524.2	11771.9	3234.4	1516.9	1248.3	988.6
80°	3010.6	3320.4	4667.2	8438.9	13306.7	13378.4	5618.2	1482.9	1067.4	920.5	698.5
82.5°	1228.6	1262.6	2004.1	3744.9	6757.2	6821.7	2294.2	881.1	762.9	634.0	417.3
85°	480.0	494.3	886.5	1683.5	2883.4	3071.5	793.4	465.6	469.2	363.6	213.1
87.5°	161.2	182.7	363.6	560.6	979.6	959.9	231.0	137.9	168.3	157.6	66.3
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°	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8	4935.8
2.5°	4952.0	4986.0	5009.3	5034.3	5057.6	5064.8	5059.4	5075.5	5077.3	5079.1	5080.9
5°	4980.6	5027.2	5072.0	5097.0	5107.8	5098.8	5068.4	5052.3	5037.9	5027.2	5030.8
7.5°	5020.0	5086.3	5127.5	5138.2	5109.6	5068.4	4993.2	4934.1	4896.4	4871.4	4869.6
10°	5080.9	5145.4	5179.4	5149.0	5070.2	4969.9	4851.7	4740.6	4656.5	4631.4	4629.6
12.5°	5157.9	5231.4	5229.6	5140.0	5002.1	4823.0	4631.4	4502.4	4387.8	4330.5	4353.8
15°	5258.2	5313.7	5261.8	5100.6	4882.1	4636.8	4400.4	4224.8	4095.9	4035.0	4038.6
17.5°	5374.6	5423.0	5285.1	5030.8	4713.8	4398.6	4124.5	3958.0	3855.9	3811.1	3807.6
20°	5519.7	5534.0	5285.1	4909.0	4497.1	4121.0	3859.5	3743.1	3685.8	3662.5	3669.6
22.5°	5675.5	5646.9	5256.4	4737.1	4212.3	3830.8	3655.3	3603.4	3574.7	3571.1	3574.7
25°	5851.0	5770.4	5197.3	4504.2	3915.0	3580.1	3478.0	3487.0	3492.3	3492.3	3504.9
27.5°	6065.9	5904.7	5098.8	4210.5	3567.6	3347.3	3318.6	3381.3	3410.0	3415.3	3424.3
30°	6348.9	6051.6	4935.8	3843.4	3272.1	3137.7	3187.9	3272.1	3304.3	3324.0	3320.4
32.5°	6685.6	6212.8	4715.6	3476.2	3033.9	2990.9	3051.8	3137.7	3173.6	3184.3	3170.0
35°	7081.4	6395.5	4425.4	3132.4	2826.1	2851.2	2922.8	2949.7	2981.9	2981.9	2989.1
37.5°	7507.6	6542.3	4070.8	2817.2	2664.9	2756.3	2808.2	2783.1	2768.8	2750.9	2759.8
40°	7941.1	6651.6	3610.5	2505.5	2503.7	2657.8	2672.1	2600.5	2543.1	2525.2	2516.3
42.5°	8318.9	6719.6	3195.0	2263.8	2351.5	2561.1	2571.8	2457.2	2365.8	2312.1	2294.2
45°	8764.9	6798.4	2788.5	2063.2	2210.0	2484.0	2510.9	2356.9	2222.6	2109.7	2081.1
47.5°	9375.6	6977.5	2467.9	1907.4	2107.9	2435.7	2473.3	2274.5	2097.2	1950.3	1927.1
50°	10065.1	7222.9	2219.0	1801.7	2029.1	2392.7	2439.3	2190.3	1980.8	1817.8	1799.9
52.5°	10697.3	7355.4	2004.1	1706.8	1952.1	2313.9	2394.5	2129.4	1866.2	1685.3	1669.2
55°	11043.0	7140.5	1792.7	1613.6	1846.5	2211.8	2331.8	2045.3	1755.1	1615.4	1592.2
57.5°	11089.5	6696.3	1601.1	1513.3	1735.4	2086.5	2215.4	1943.2	1683.5	1567.1	1547.4
60°	10729.6	6033.7	1452.5	1431.0	1622.6	1945.0	2084.7	1853.6	1610.1	1513.3	1493.6
62.5°	9834.1	5313.7	1348.6	1355.7	1508.0	1796.3	1987.9	1767.7	1540.2	1454.2	1436.3
65°	8293.9	4386.0	1248.3	1278.7	1405.9	1679.9	1900.2	1696.0	1470.4	1409.5	1393.4
67.5°	5761.5	3166.4	1165.9	1198.1	1309.2	1561.7	1798.1	1619.0	1391.6	1359.3	1334.3
70°	3189.7	1948.5	1069.2	1106.8	1208.9	1429.2	1683.5	1502.6	1276.9	1262.6	1226.8
72.5°	1676.3	1241.1	959.9	1001.1	1072.8	1259.0	1508.0	1375.4	1164.1	1103.2	1056.7
74°	1309.2	1017.3	886.5	929.5	977.9	1158.7	1404.1	1284.1	1083.5	1011.9	976.1
75°	1140.8	906.2	823.8	879.4	922.3	1090.7	1323.5	1219.6	1038.7	970.7	938.5
77.5°	805.9	678.8	673.4	739.7	762.9	956.4	1192.8	1110.4	925.9	854.3	823.8
80°	565.9	508.6	533.7	574.9	607.1	845.3	1106.8	959.9	759.4	675.2	664.4
82.5°	368.9	333.1	381.5	419.1	429.8	623.2	893.7	728.9	553.4	449.5	417.3
85°	170.1	166.6	218.5	213.1	211.3	304.5	530.1	426.2	318.8	238.2	223.9
87.5°	43.0	41.2	53.7	44.8	53.7	46.6	48.4	12.5	1.8	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)