

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: P522863

Luminaire Tested: **GALN-SA7D-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39639 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

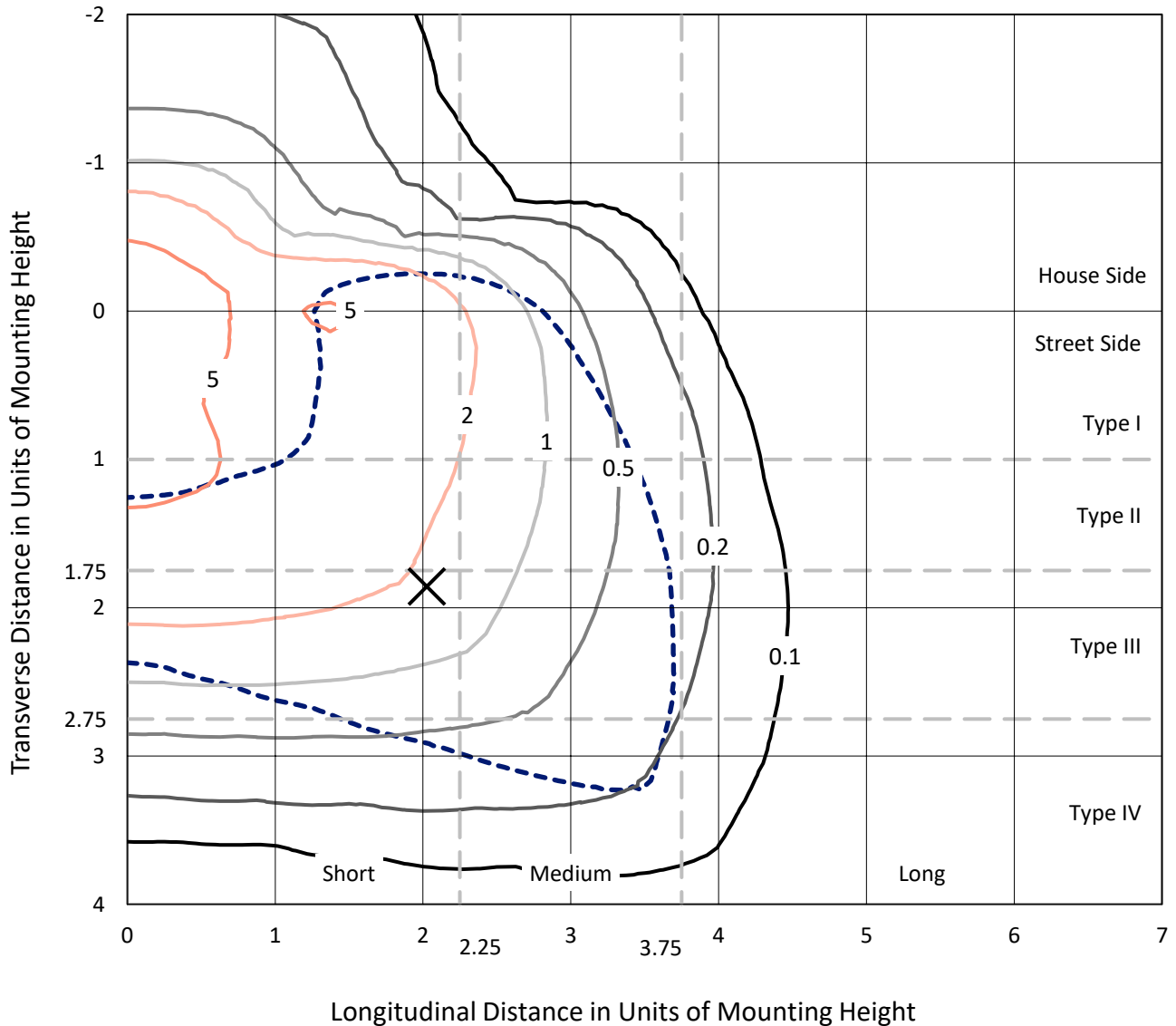
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

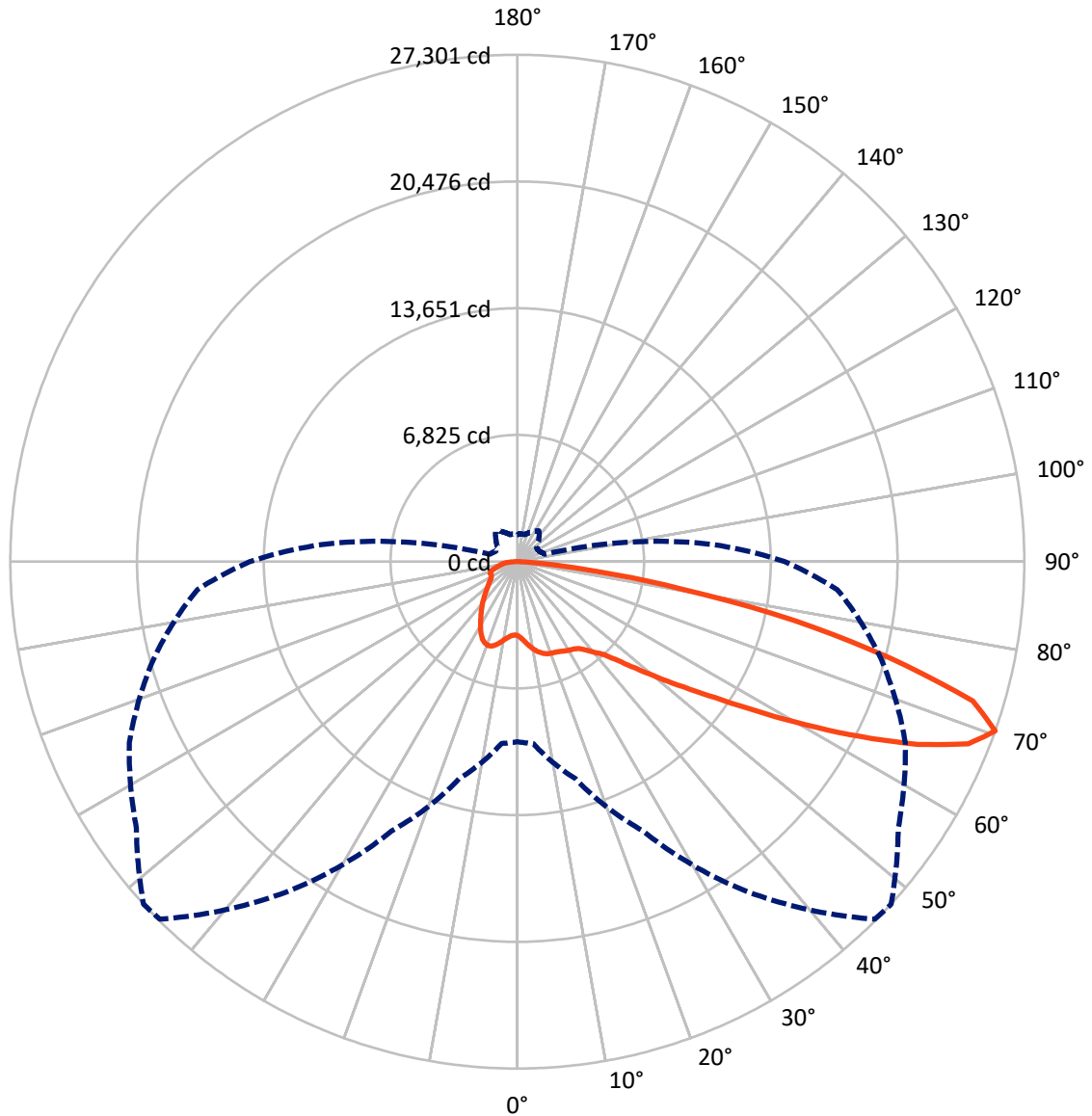
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8975.0	0.0	8975.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30664.0	0.0	30664.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	39639.0	0.0	39639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.2	1.0
10°-20°	1371.3	3.5
20°-30°	2280.4	5.8
30°-40°	3232.1	8.2
40°-50°	4771.3	12.0
50°-60°	8264.1	20.8
60°-70°	11673.3	29.4
70°-80°	6710.4	16.9
80°-90°	925.9	2.3
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°	39639.0	100.0
0°-180°	39639.0	100.0

Coefficient of Utilization



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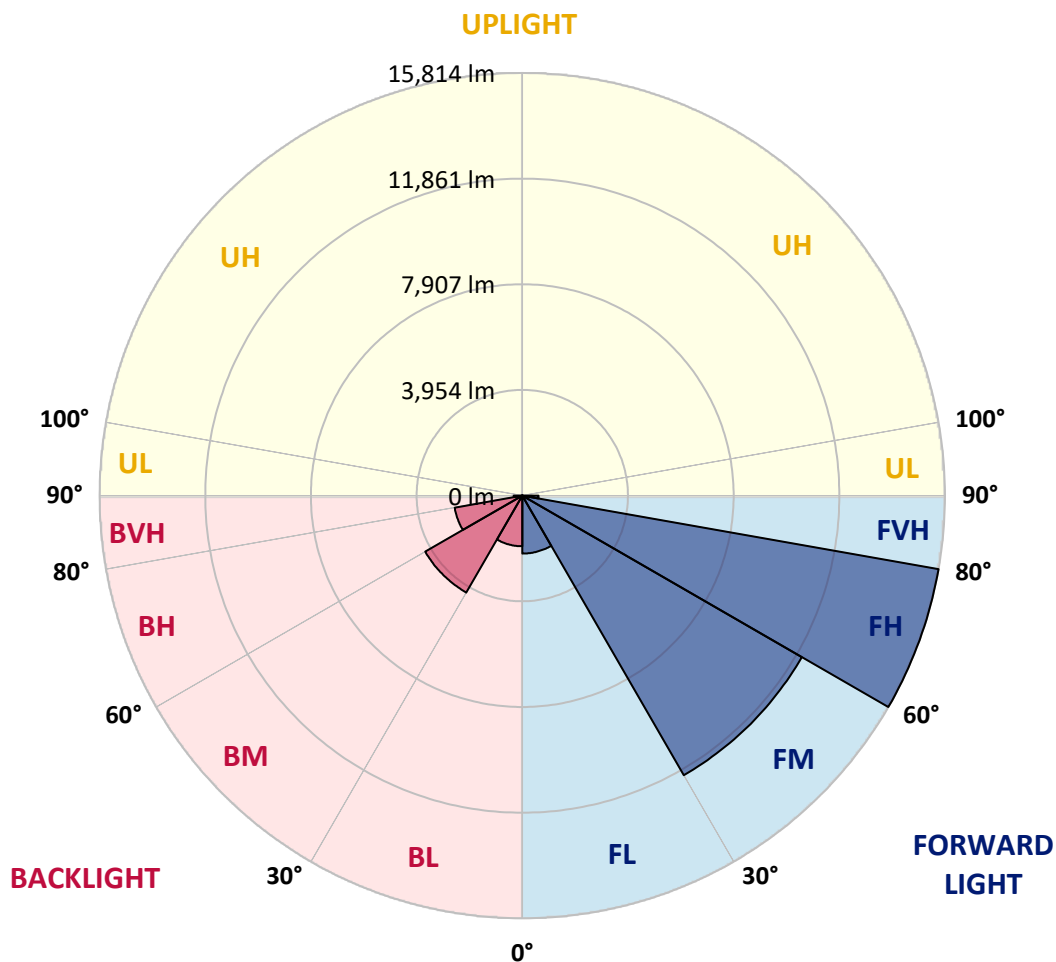
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2167.6	5.5			
FM	(30°-60°)	12077.2	30.5			
FH	(60°-80°)	15814.3	39.9			G5
FVH	(80°-90°)	604.8	1.5			G4/750
BL	(0°-30°)	1894.2	4.8	B3/2500		
BM	(30°-60°)	4190.3	10.6	B3/5000		
BH	(60°-80°)	2569.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	321.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3
2.5°	4235.9	4221.1	4219.0	4187.2	4170.2	4138.4	4125.6	4095.9	4059.9	4023.8	3989.9
5°	4569.0	4569.0	4554.1	4509.6	4439.6	4367.4	4335.6	4278.4	4176.5	4093.8	4023.8
7.5°	4910.5	4914.7	4885.0	4819.3	4719.6	4602.9	4573.2	4488.4	4344.1	4223.2	4119.3
10°	5205.3	5205.3	5165.0	5075.9	4950.8	4823.5	4793.8	4698.3	4537.1	4386.5	4250.8
12.5°	5430.1	5430.1	5377.1	5260.5	5124.7	5010.2	4976.2	4885.0	4734.4	4566.8	4395.0
15°	5576.5	5565.9	5506.5	5375.0	5243.5	5143.8	5120.5	5044.1	4906.2	4736.5	4543.5
17.5°	5582.9	5578.6	5521.4	5411.1	5296.5	5228.6	5213.8	5162.9	5054.7	4893.5	4689.9
20°	5459.8	5468.3	5430.1	5351.7	5296.5	5266.8	5260.5	5243.5	5167.1	5016.5	4812.9
22.5°	5328.3	5343.2	5307.1	5264.7	5260.5	5290.1	5294.4	5298.6	5249.8	5103.5	4916.8
25°	5296.5	5307.1	5271.1	5232.9	5256.2	5334.7	5351.7	5368.6	5330.5	5207.4	5039.9
27.5°	5457.7	5449.2	5379.2	5296.5	5311.4	5417.4	5440.8	5459.8	5440.8	5334.7	5192.6
30°	5913.8	5886.2	5746.2	5504.4	5428.0	5502.3	5525.6	5578.6	5578.6	5500.1	5358.0
32.5°	6677.4	6624.4	6367.7	5892.6	5627.4	5582.9	5606.2	5693.2	5737.7	5676.2	5521.4
35°	7604.3	7549.2	7182.2	6543.7	5992.3	5744.1	5737.7	5835.3	5954.1	5816.2	5614.7
37.5°	8535.5	8478.2	8037.0	7320.1	6524.7	6083.5	6045.3	6079.2	6130.1	5877.7	5744.1
40°	9466.7	9398.8	9012.8	8187.6	7175.9	6533.1	6433.4	6280.7	6259.5	6079.2	5994.4
42.5°	10389.4	10327.9	10132.7	9161.2	7956.4	6972.2	6819.5	6556.5	6637.1	6528.9	6454.7
45°	11320.6	11324.8	11117.0	10253.6	8898.2	7782.5	7576.8	7165.2	7356.2	7315.8	7358.3
47.5°	12145.7	12135.1	12060.9	11314.2	10067.0	8826.1	8561.0	8083.7	8410.4	8558.8	8883.4
50°	12945.4	12939.0	12943.3	12516.9	11424.5	10067.0	9774.3	9273.7	10009.7	10525.1	11106.3
52.5°	14090.8	14126.9	13870.2	13757.8	13074.8	11532.7	11210.3	10692.7	11899.7	12712.1	13846.9
55°	15240.5	15210.8	15009.3	15125.9	14801.4	13267.8	12930.5	12519.0	14003.8	14892.6	16598.0
57.5°	15917.1	15927.7	16133.5	16704.1	16933.1	15431.4	15125.9	14807.8	16368.9	16998.9	19045.8
60°	16525.9	16574.7	17166.5	18244.0	18865.5	18089.2	17817.7	17508.0	18538.9	18789.2	21171.2
62.5°	16716.8	16867.4	17900.4	19512.5	20749.1	21088.5	20751.2	20068.2	20604.9	20507.3	22611.5
65°	15764.4	15970.1	17821.9	19987.6	22431.2	23935.1	23720.8	22452.4	22365.4	21777.9	22846.9
67.5°	13257.2	13462.9	15840.8	18990.7	23126.9	26399.8	26185.6	24191.7	23434.5	21896.6	21065.1
70°	9700.0	9829.4	12103.3	15989.2	21729.1	27227.1	27301.3	25040.2	23052.7	20282.4	17295.9
72.5°	5589.2	5875.6	7468.6	11248.5	17751.9	25135.6	25651.1	23275.4	20638.8	16920.4	12092.7
75°	2403.3	2409.6	3453.2	6204.4	12022.7	20204.0	20702.4	19294.0	16207.7	11700.3	6456.8
77.5°	1143.3	1164.5	1518.7	2770.2	6618.0	13959.3	15304.1	13630.5	10366.1	5621.0	2439.3
80°	742.4	757.3	929.1	1374.5	3245.4	8094.3	9031.9	7863.1	4573.2	2008.7	1052.1
82.5°	449.7	453.9	621.5	840.0	1786.0	3665.3	4320.8	3412.9	1951.5	1202.7	619.4
85°	273.6	275.7	377.6	519.7	1083.9	1266.3	1300.3	1289.7	1145.4	786.9	330.9
87.5°	131.5	135.8	195.1	246.1	426.4	392.4	371.2	430.6	540.9	424.2	142.1
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°	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3	3979.3
2.5°	3975.0	3968.7	3953.8	3947.5	3943.2	3945.3	3943.2	3943.2	3945.3	3945.3	3945.3
5°	3994.1	3983.5	3960.2	3960.2	3972.9	4002.6	4030.2	4051.4	4074.7	4072.6	4072.6
7.5°	4076.9	4057.8	4030.2	4038.7	4070.5	4117.2	4165.9	4212.6	4259.3	4263.5	4261.4
10°	4197.8	4178.7	4149.0	4159.6	4210.5	4280.5	4342.0	4409.9	4460.8	4475.6	4471.4
12.5°	4335.6	4297.5	4272.0	4301.7	4382.3	4475.6	4535.0	4585.9	4622.0	4643.2	4634.7
15°	4475.6	4439.6	4409.9	4471.4	4569.0	4655.9	4685.6	4694.1	4700.5	4721.7	4717.4
17.5°	4611.4	4562.6	4552.0	4632.6	4725.9	4764.1	4747.1	4711.1	4683.5	4700.5	4698.3
20°	4732.3	4694.1	4689.9	4770.5	4806.5	4770.5	4698.3	4634.7	4585.9	4590.2	4588.0
22.5°	4846.8	4817.1	4821.4	4855.3	4798.0	4675.0	4556.2	4469.3	4416.2	4426.8	4433.2
25°	4974.1	4944.4	4955.0	4899.9	4711.1	4496.8	4325.0	4250.8	4229.6	4250.8	4265.6
27.5°	5139.5	5120.5	5114.1	4902.0	4556.2	4233.8	4038.7	4011.1	4030.2	4076.9	4100.2
30°	5317.7	5317.7	5283.8	4865.9	4344.1	3917.8	3748.1	3752.3	3818.1	3883.8	3907.2
32.5°	5489.5	5525.6	5419.5	4768.3	4070.5	3610.2	3480.8	3485.1	3542.3	3622.9	3644.1
35°	5631.7	5735.6	5536.2	4590.2	3748.1	3351.4	3253.8	3196.6	3198.7	3260.2	3277.2
37.5°	5826.8	6019.8	5604.1	4325.0	3404.4	3130.8	3020.5	2920.8	2855.1	2829.6	2829.6
40°	6166.2	6450.4	5621.0	3932.6	3079.9	2920.8	2763.9	2645.1	2517.8	2403.3	2382.1
42.5°	6741.0	7099.5	5587.1	3480.8	2787.2	2689.6	2536.9	2390.5	2214.5	2053.3	2040.5
45°	7759.2	7943.7	5495.9	3012.0	2526.3	2466.9	2318.4	2159.3	1972.7	1828.4	1817.8
47.5°	9390.3	9129.4	5375.0	2596.3	2288.7	2271.8	2157.2	1972.7	1786.0	1686.3	1675.7
50°	11772.4	10996.0	5358.0	2295.1	2097.8	2106.3	2013.0	1843.3	1680.0	1597.2	1584.5
52.5°	14640.2	13250.8	5470.4	2083.0	1930.2	1962.1	1915.4	1758.4	1614.2	1544.2	1531.5
55°	17423.1	15278.6	5538.3	1917.5	1773.3	1832.7	1839.0	1707.5	1576.0	1506.0	1497.5
57.5°	19682.2	16805.9	5237.1	1766.9	1637.5	1728.7	1775.4	1677.8	1556.9	1503.9	1495.4
60°	21253.9	17527.1	4380.2	1633.3	1537.8	1646.0	1752.1	1680.0	1603.6	1610.0	1614.2
62.5°	21754.5	17206.8	3285.7	1533.6	1470.0	1618.4	1790.3	1766.9	1688.4	1737.2	1745.7
65°	20925.2	15883.2	2382.1	1455.1	1410.6	1637.5	1904.8	1830.6	1658.7	1694.8	1694.8
67.5°	18148.6	13683.5	1853.9	1383.0	1342.7	1673.6	2019.3	1824.2	1588.7	1631.2	1593.0
70°	14396.2	10584.5	1544.2	1302.4	1270.6	1620.6	2029.9	1758.4	1506.0	1514.5	1442.4
72.5°	9553.7	6959.5	1327.8	1226.0	1160.3	1457.2	1943.0	1673.6	1425.4	1376.6	1304.5
75°	4681.4	3470.2	1158.1	1130.6	1016.0	1268.4	1824.2	1593.0	1338.4	1262.1	1221.8
77.5°	1813.6	1476.3	988.5	1009.7	884.5	1117.8	1667.2	1478.4	1223.9	1120.0	1088.2
80°	880.3	837.9	810.3	842.1	727.6	952.4	1523.0	1378.7	1117.8	1003.3	956.6
82.5°	547.3	517.6	621.5	655.4	560.0	869.7	1444.5	1293.9	984.2	831.5	793.3
85°	277.9	297.0	415.7	447.6	400.9	691.5	1190.0	971.5	710.6	589.7	593.9
87.5°	106.1	142.1	218.5	235.4	214.2	364.8	655.4	566.3	456.0	309.7	286.4
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)