

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: P457814

Luminaire Tested: **GALN-SA9A-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457814
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-SA9A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 32872 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): 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

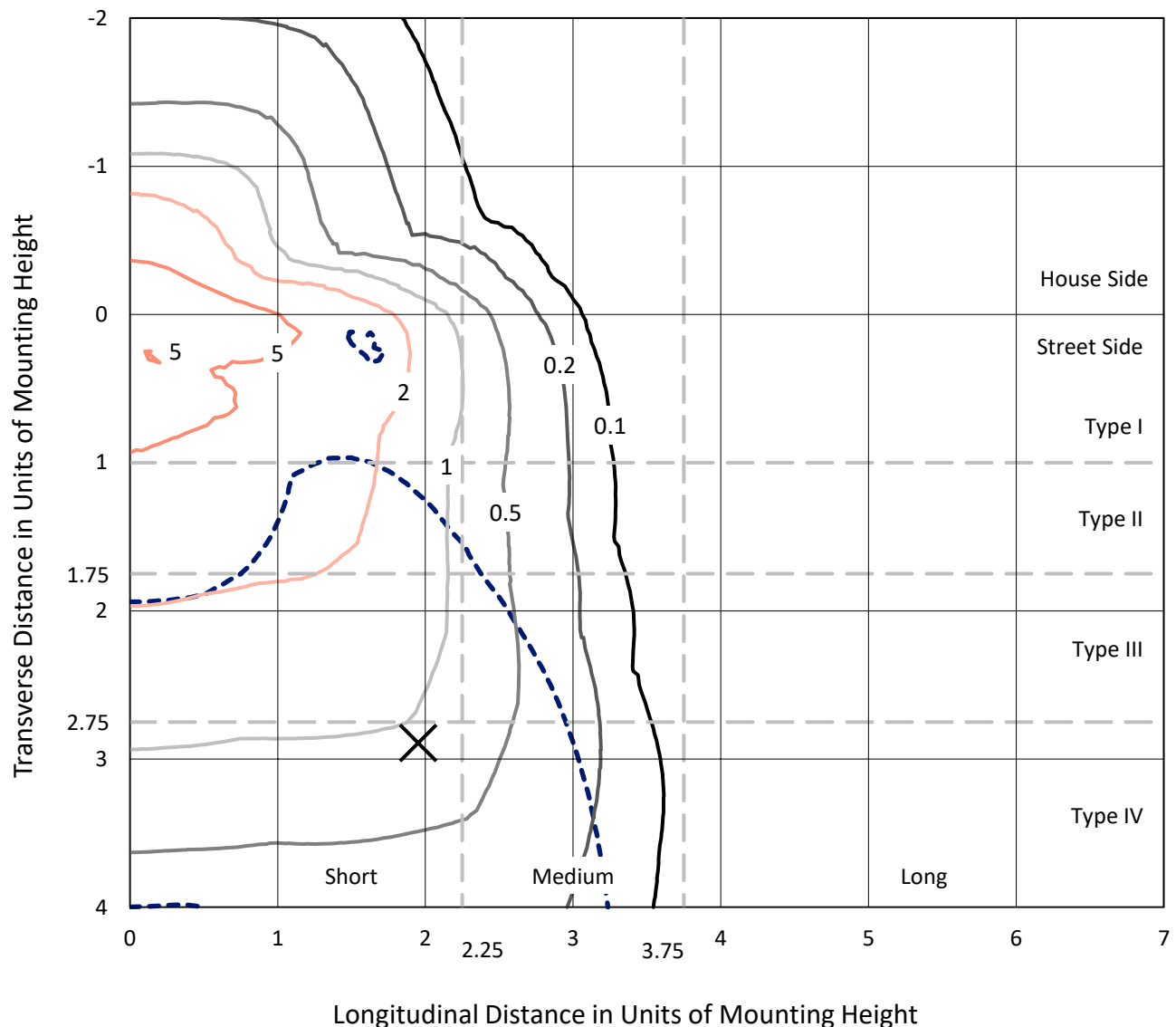


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

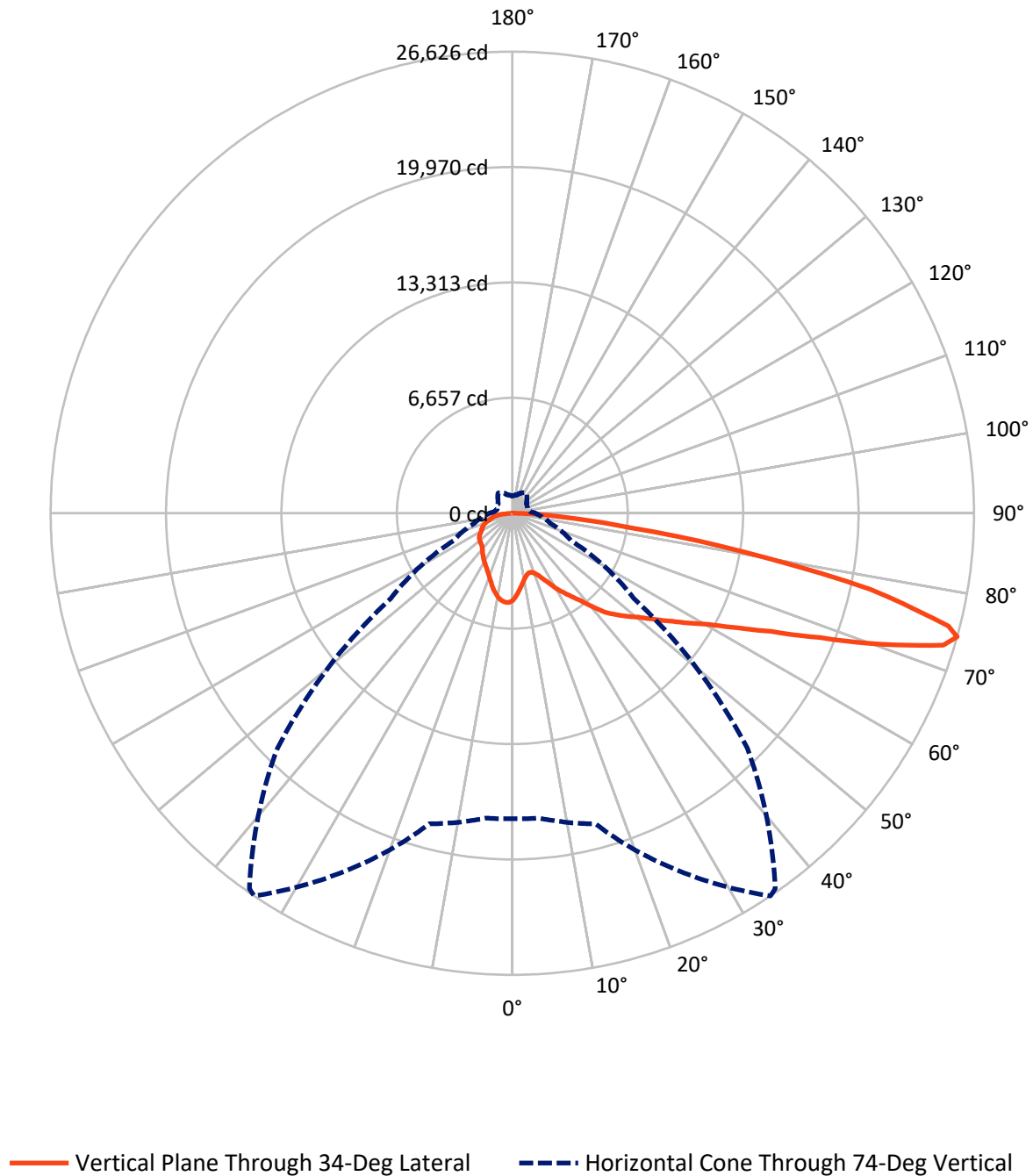


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6995.4	0.0	6995.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	25876.6	0.0	25876.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	32872.0	0.0	32872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.5	1.4
10°-20°	1249.5	3.8
20°-30°	2060.1	6.3
30°-40°	3085.8	9.4
40°-50°	4485.9	13.6
50°-60°	6265.8	19.1
60°-70°	7844.4	23.9
70°-80°	6486.7	19.7
80°-90°	937.3	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°	32872.0	100.0
0°-180°	32872.0	100.0

Coefficient of Utilization



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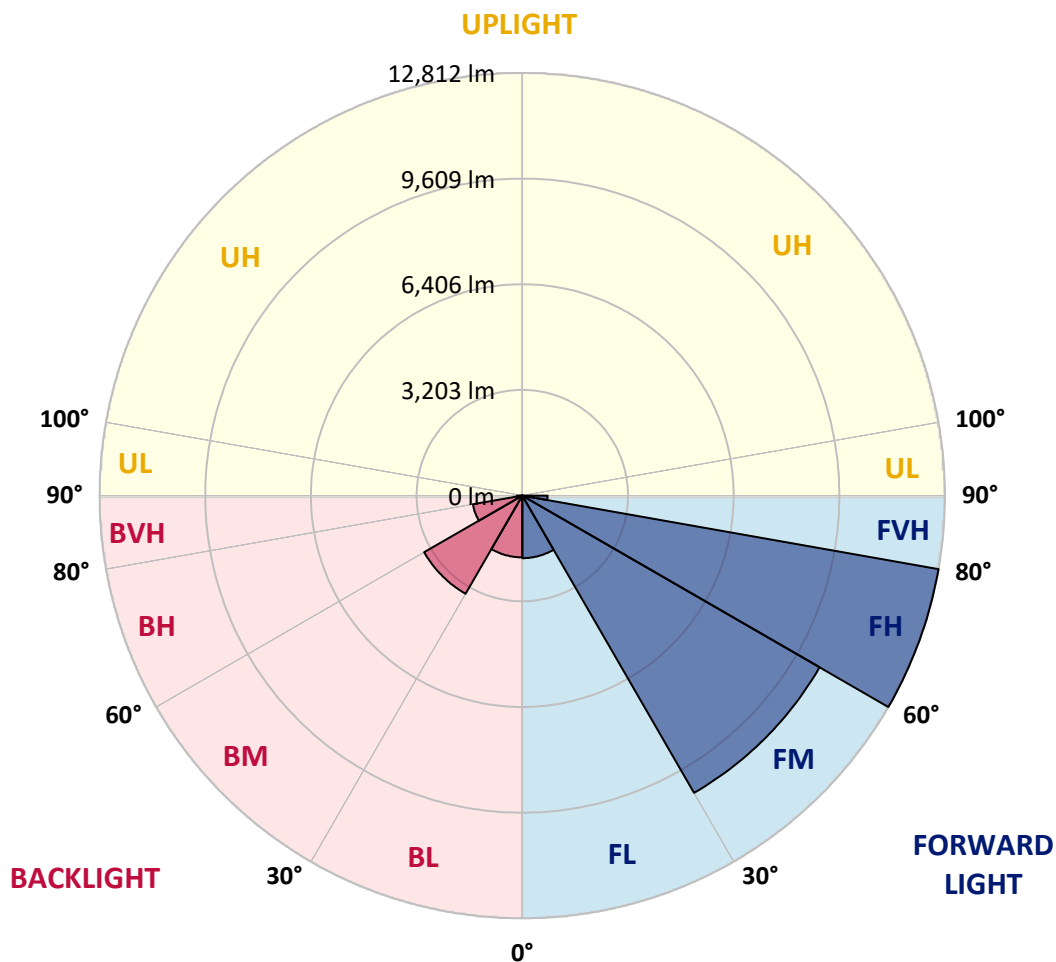
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1894.9	5.8			
FM	(30°-60°)	10402.1	31.6			
FH	(60°-80°)	12811.8	39.0			G5
FVH	(80°-90°)	767.9	2.3			G5
BL	(0°-30°)	1871.2	5.7	B3/2500		
BM	(30°-60°)	3435.5	10.5	B3/5000		
BH	(60°-80°)	1519.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	169.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9
2.5°	4638.3	4662.0	4674.7	4720.2	4731.2	4745.7	4784.0	4835.0	4900.5	4958.8	5009.8
5°	4252.2	4288.7	4310.5	4350.6	4428.9	4436.2	4538.1	4654.7	4787.6	4911.5	5013.4
7.5°	3886.2	3926.3	3944.5	4017.3	4121.1	4137.5	4286.8	4470.8	4692.9	4880.5	5037.1
10°	3611.2	3631.2	3671.3	3725.9	3849.8	3860.7	4055.6	4301.4	4589.1	4865.9	5077.2
12.5°	3461.9	3472.8	3481.9	3540.2	3662.2	3678.6	3882.5	4161.2	4507.2	4876.9	5142.7
15°	3483.7	3487.4	3447.3	3458.2	3556.6	3580.2	3782.4	4068.3	4456.2	4904.2	5241.1
17.5°	3667.7	3654.9	3556.6	3505.6	3574.8	3585.7	3762.4	4031.9	4432.5	4955.2	5343.1
20°	3957.2	3939.0	3769.6	3656.7	3696.8	3705.9	3827.9	4059.2	4456.2	5038.9	5501.5
22.5°	4317.8	4310.5	4053.7	3917.1	3915.3	3915.3	3979.1	4157.5	4527.2	5153.7	5667.2
25°	4822.2	4784.0	4448.9	4272.3	4223.1	4219.4	4212.2	4319.6	4618.3	5275.7	5863.9
27.5°	5339.4	5273.9	4975.2	4703.9	4598.2	4585.5	4538.1	4549.1	4734.8	5414.1	6087.9
30°	5803.8	5761.9	5481.5	5181.0	5055.3	5026.2	4895.1	4835.0	4929.7	5663.6	6444.8
32.5°	6158.9	6133.4	5914.9	5641.7	5456.0	5450.5	5259.3	5210.1	5233.8	5965.9	6852.7
35°	6446.6	6455.7	6344.7	6107.9	5894.8	5863.9	5736.4	5674.5	5605.3	6402.9	7366.3
37.5°	6840.0	6860.0	6852.7	6648.8	6388.4	6395.6	6366.5	6264.5	6080.6	6891.0	7936.3
40°	7273.4	7288.0	7286.2	7207.8	7071.3	7078.5	7067.6	6951.1	6676.1	7512.0	8570.0
42.5°	7872.5	7803.3	7623.1	7701.4	7781.5	7816.1	7890.8	7779.7	7402.7	8174.8	9165.5
45°	8542.7	8411.6	8003.7	8040.1	8336.9	8402.5	8814.0	8661.1	8191.2	8936.1	9866.6
47.5°	8965.2	8835.9	8491.7	8484.4	8877.8	8941.5	9669.9	9613.5	8908.7	9757.4	10722.5
50°	9342.2	9323.9	8936.1	9028.9	9413.2	9507.9	10602.3	10549.5	9624.4	10726.2	11654.9
52.5°	9901.2	9753.7	9444.1	9635.3	10143.4	10267.3	11527.5	11372.7	10281.8	11582.1	12560.0
55°	10152.5	10117.9	10099.7	10265.4	10962.9	11052.2	12427.1	12072.0	10842.7	12306.9	13248.4
57.5°	10824.5	10760.8	10941.1	11054.0	11928.1	12064.7	13366.7	12802.2	11334.4	12882.3	13583.5
60°	11695.0	11660.4	11826.1	12030.1	13006.2	13213.8	14437.5	13425.0	11729.6	13171.9	13399.5
62.5°	12995.2	12991.6	12960.6	13397.7	14534.1	14725.3	15666.8	14031.4	11791.5	12955.2	12448.9
65°	14860.0	14794.5	14525.0	15002.1	16435.3	16659.3	16947.0	14370.2	11418.2	11842.5	10482.2
67.5°	16810.4	16806.8	16588.2	17207.4	19165.1	19396.4	18547.7	14295.5	10382.0	9593.5	7444.6
70°	18427.5	18349.2	18627.9	20277.8	22652.4	22920.1	19948.1	13415.9	8269.5	6335.5	4423.4
72.5°	18815.4	18819.1	19398.2	22645.2	26001.4	26043.3	20452.6	10873.7	5534.3	3494.7	2212.6
74°	17620.8	17651.8	18549.5	22763.5	26626.1	26436.7	19163.3	8546.3	3742.3	2281.8	1595.3
75°	16083.8	15888.9	17187.4	21975.0	25977.7	25773.8	17653.6	6858.2	2855.5	1822.9	1396.8
77.5°	8599.2	8797.7	10800.8	16398.9	21104.5	20869.6	11970.0	3288.9	1542.5	1269.3	1005.2
80°	3061.2	3376.3	4745.7	8580.9	13530.6	13603.5	5712.7	1507.9	1085.4	936.0	710.2
82.5°	1249.3	1283.9	2037.8	3807.9	6870.9	6936.5	2332.8	896.0	775.8	644.7	424.3
85°	488.1	502.6	901.4	1711.8	2931.9	3123.2	806.7	473.5	477.1	369.7	216.7
87.5°	163.9	185.8	369.7	570.0	996.1	976.1	234.9	140.2	171.2	160.3	67.4
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°	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9	5018.9
2.5°	5035.3	5069.9	5093.6	5119.1	5142.7	5150.0	5144.6	5160.9	5162.8	5164.6	5166.4
5°	5064.4	5111.8	5157.3	5182.8	5193.7	5184.6	5153.7	5137.3	5122.7	5111.8	5115.4
7.5°	5104.5	5171.9	5213.8	5224.7	5195.5	5153.7	5077.2	5017.1	4978.8	4953.3	4951.5
10°	5166.4	5232.0	5266.6	5235.6	5155.5	5053.5	4933.3	4820.4	4734.8	4709.3	4707.5
12.5°	5244.7	5319.4	5317.6	5226.5	5086.3	4904.2	4709.3	4578.2	4461.7	4403.4	4427.1
15°	5346.7	5403.2	5350.3	5186.4	4964.3	4714.8	4474.4	4295.9	4164.8	4102.9	4106.5
17.5°	5465.1	5514.2	5374.0	5115.4	4793.1	4472.6	4194.0	4024.6	3920.8	3875.3	3871.6
20°	5612.6	5627.1	5374.0	4991.6	4572.7	4190.3	3924.4	3806.1	3747.8	3724.1	3731.4
22.5°	5771.0	5741.9	5344.9	4816.8	4283.2	3895.3	3716.8	3664.0	3634.9	3631.2	3634.9
25°	5949.5	5867.5	5284.8	4580.0	3980.9	3640.3	3536.5	3545.6	3551.1	3551.1	3563.9
27.5°	6168.0	6004.1	5184.6	4281.4	3627.6	3403.6	3374.5	3438.2	3467.3	3472.8	3481.9
30°	6455.7	6153.4	5018.9	3908.0	3327.1	3190.5	3241.5	3327.1	3359.9	3379.9	3376.3
32.5°	6798.1	6317.3	4794.9	3534.7	3084.9	3041.2	3103.1	3190.5	3227.0	3237.9	3223.3
35°	7200.6	6503.1	4499.9	3185.1	2873.7	2899.2	2972.0	2999.3	3032.1	3032.1	3039.4
37.5°	7634.0	6652.4	4139.3	2864.6	2709.8	2802.6	2855.5	2830.0	2815.4	2797.2	2806.3
40°	8074.7	6763.5	3671.3	2547.7	2545.9	2702.5	2717.1	2644.2	2585.9	2567.7	2558.6
42.5°	8458.9	6832.7	3248.8	2301.8	2391.1	2604.1	2615.1	2498.5	2405.7	2351.0	2332.8
45°	8912.4	6912.8	2835.4	2097.9	2247.2	2525.8	2553.2	2396.5	2260.0	2145.2	2116.1
47.5°	9533.4	7094.9	2509.5	1939.5	2143.4	2476.7	2514.9	2312.8	2132.5	1983.2	1959.5
50°	10234.5	7344.4	2256.3	1832.0	2063.3	2433.0	2480.3	2227.2	2014.1	1848.4	1830.2
52.5°	10877.3	7479.2	2037.8	1735.5	1985.0	2352.8	2434.8	2165.3	1897.6	1713.6	1697.2
55°	11228.8	7260.7	1822.9	1640.8	1877.5	2249.0	2371.0	2079.7	1784.7	1642.6	1618.9
57.5°	11276.1	6809.0	1628.0	1538.8	1764.6	2121.6	2252.7	1975.9	1711.8	1593.4	1573.4
60°	10910.1	6135.2	1476.9	1455.0	1649.9	1977.7	2119.7	1884.8	1637.2	1538.8	1518.8
62.5°	9999.6	5403.2	1371.3	1378.6	1533.4	1826.5	2021.4	1797.4	1566.1	1478.7	1460.5
65°	8433.4	4459.8	1269.3	1300.3	1429.6	1708.2	1932.2	1724.6	1495.1	1433.2	1416.8
67.5°	5858.4	3219.7	1185.5	1218.3	1331.2	1588.0	1828.4	1646.3	1415.0	1382.2	1356.7
70°	3243.3	1981.3	1087.2	1125.4	1229.2	1453.2	1711.8	1527.9	1298.4	1283.9	1247.4
72.5°	1704.5	1262.0	976.1	1018.0	1090.8	1280.2	1533.4	1398.6	1183.7	1121.8	1074.4
74°	1331.2	1034.4	901.4	945.1	994.3	1178.2	1427.7	1305.7	1101.8	1028.9	992.5
75°	1160.0	921.5	837.7	894.2	937.9	1109.0	1345.8	1240.2	1056.2	987.0	954.2
77.5°	819.5	690.2	684.7	752.1	775.8	972.5	1212.8	1129.1	941.5	868.7	837.7
80°	575.5	517.2	542.7	584.6	617.3	859.6	1125.4	976.1	772.1	686.5	675.6
82.5°	375.1	338.7	387.9	426.1	437.1	633.7	908.7	741.2	562.7	457.1	424.3
85°	173.0	169.4	222.2	216.7	214.9	309.6	539.0	433.4	324.2	242.2	227.6
87.5°	43.7	41.9	54.6	45.5	54.6	47.3	49.2	12.7	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)