

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: STREETWORKS

Report Number: P268879

Luminaire Tested: **GAN-AF-09-LED-U-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-T4W-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37093.1 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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: 28.75 FT

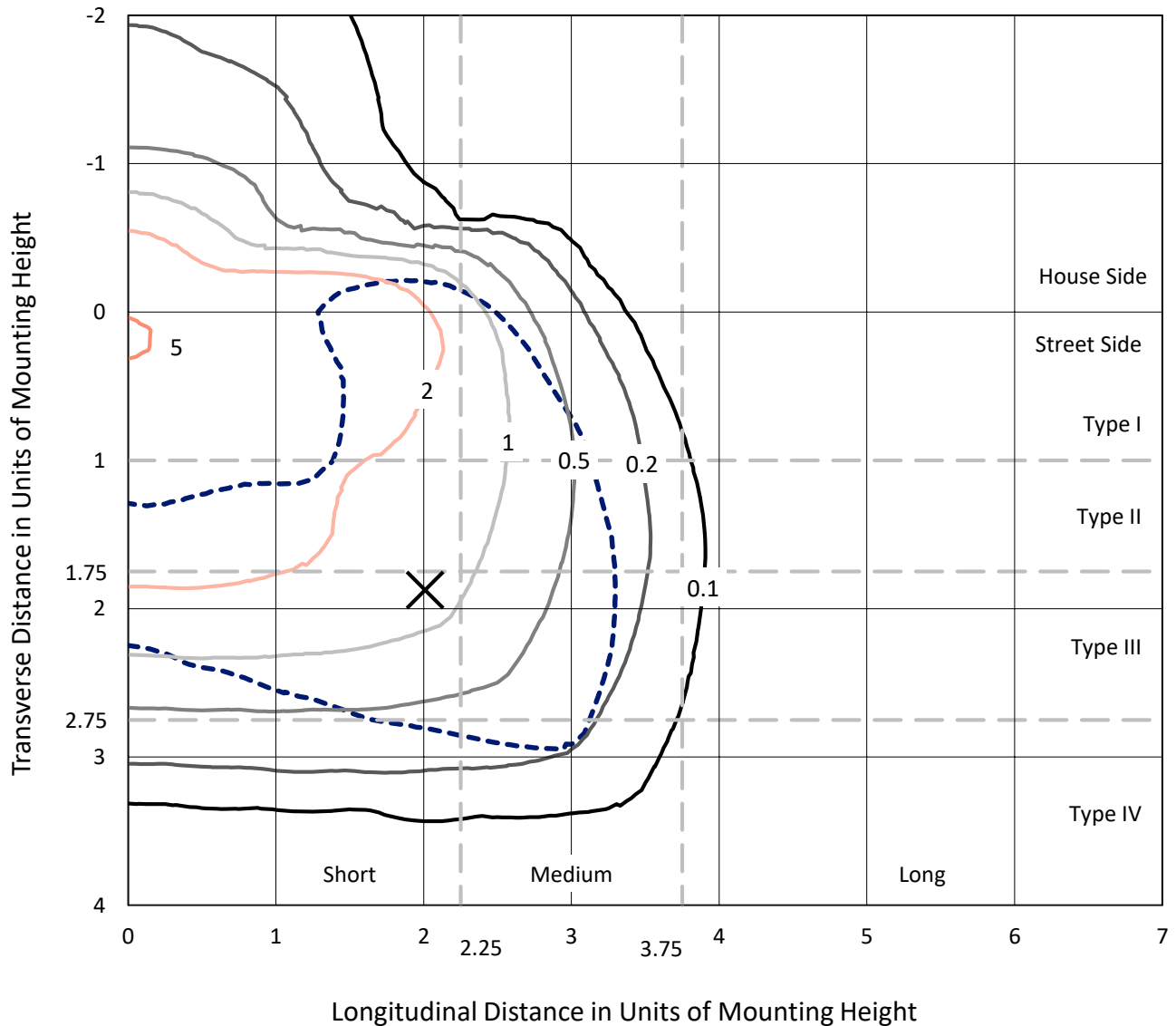


REPORT NUMBER: P268879

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7027-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

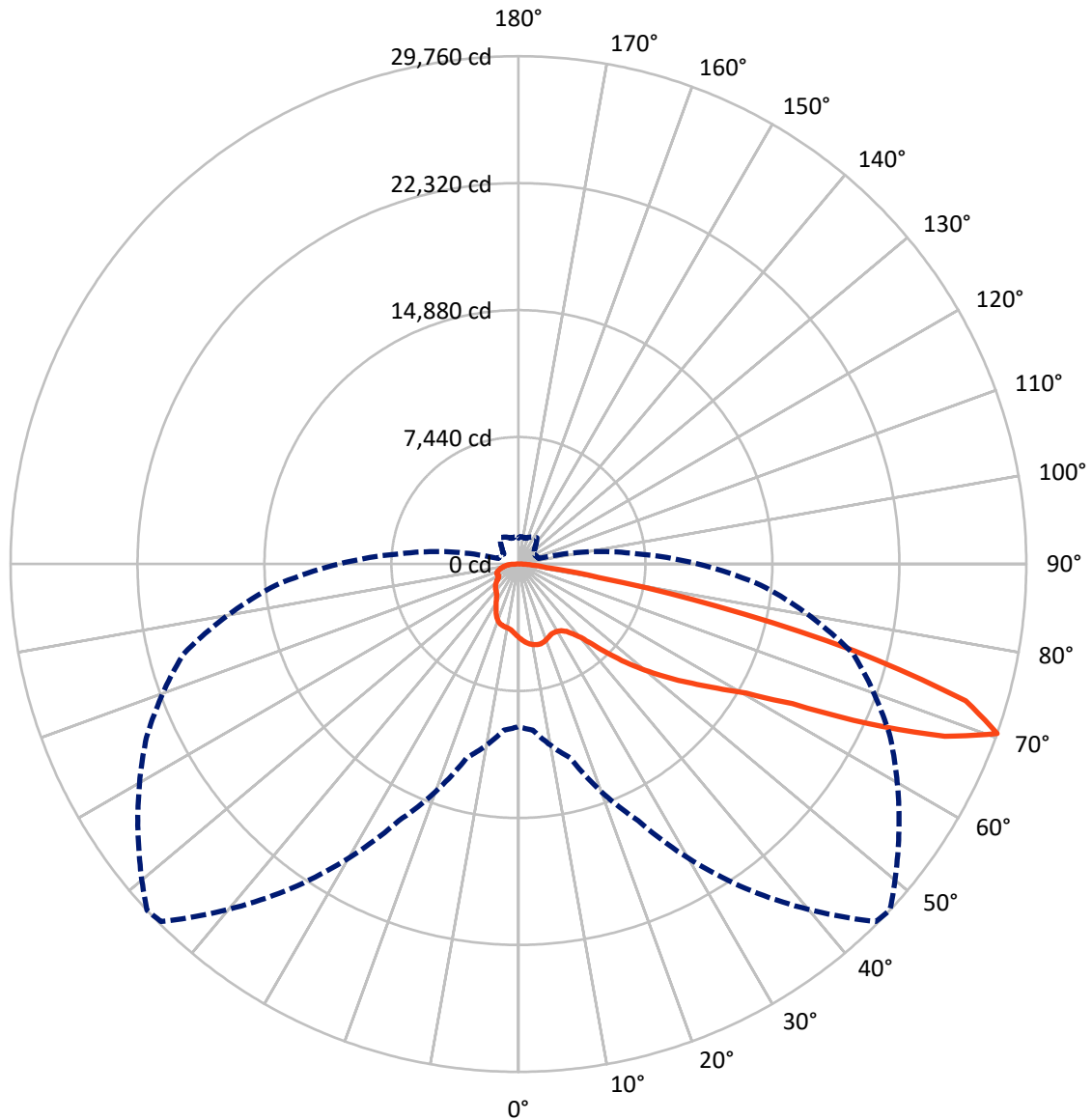


Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P268879

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7738.3	0.0	7738.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	29354.8	0.0	29354.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	37093.1	0.0	37093.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.4	1.1
10°-20°	1209.9	3.3
20°-30°	1786.6	4.8
30°-40°	2596.8	7.0
40°-50°	4673.4	12.6
50°-60°	8096.1	21.8
60°-70°	11555.5	31.2
70°-80°	5932.0	16.0
80°-90°	830.5	2.2
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°	37093.1	100.0
0°-180°	37093.1	100.0

Coefficient of Utilization



REPORT NUMBER: P268879

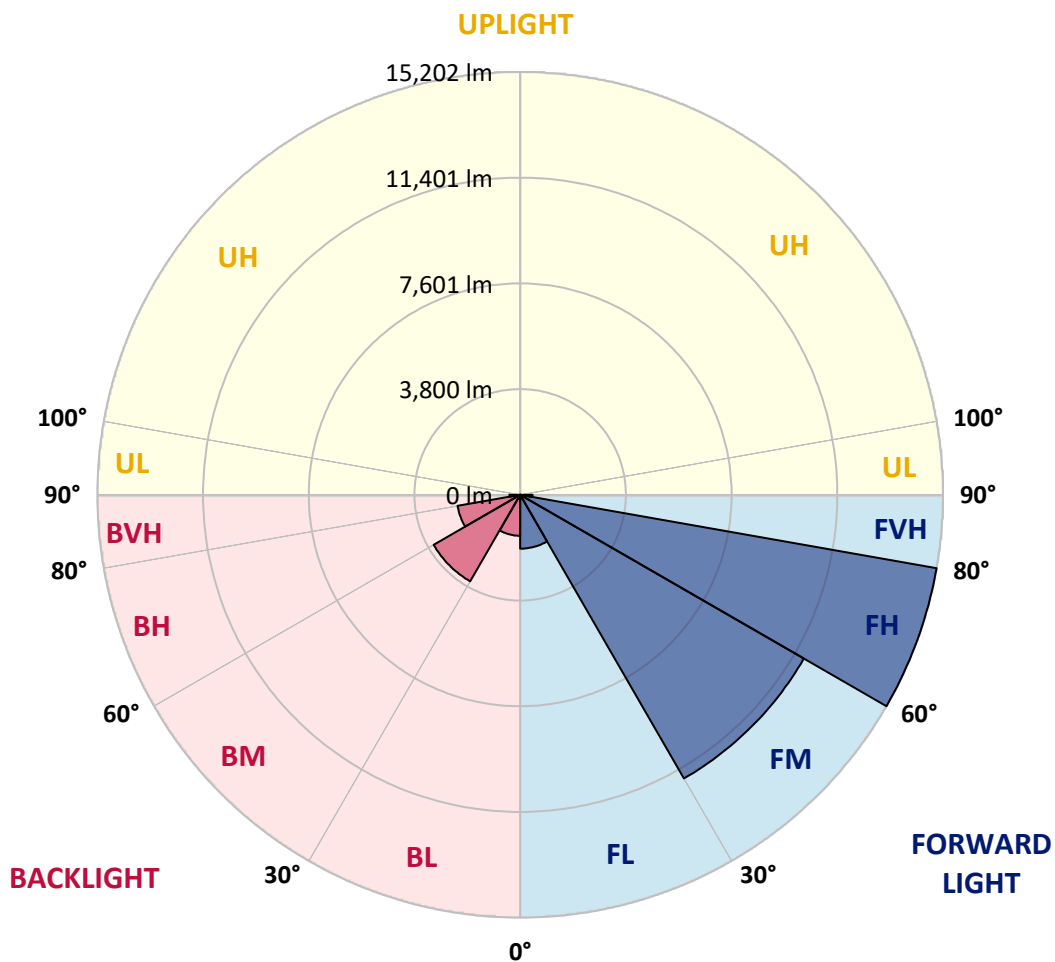
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1935.4	5.2			
FM	(30°-60°)	11774.4	31.7			
FH	(60°-80°)	15201.8	41.0			G5
FVH	(80°-90°)	443.2	1.2			G3/500
BL	(0°-30°)	1473.4	4.0	B3/2500		
BM	(30°-60°)	3591.9	9.7	B3/5000		
BH	(60°-80°)	2285.7	6.2	B3/2500		G3/2500
BVH	(80°-90°)	387.3	1.0			G3/500
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





REPORT NUMBER: P268879

CATALOG NUMBER: GAN-AF-09-LED-U-T4W-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0
2.5°	4556.7	4547.6	4543.9	4536.7	4527.7	4482.6	4473.6	4441.1	4395.9	4349.1	4300.4
5°	4856.1	4854.4	4834.5	4798.4	4740.6	4641.5	4617.9	4538.5	4432.1	4329.2	4226.3
7.5°	5119.6	5103.5	5065.5	4993.3	4892.3	4757.0	4724.5	4614.4	4468.2	4327.4	4188.4
10°	5312.8	5303.8	5220.7	5121.4	4989.6	4839.9	4802.0	4679.4	4518.7	4340.0	4166.8
12.5°	5422.8	5404.7	5309.2	5190.0	5033.1	4886.8	4849.0	4724.5	4543.9	4340.0	4136.2
15°	5415.6	5402.9	5307.4	5177.4	5018.7	4890.5	4856.1	4731.6	4538.5	4322.0	4096.5
17.5°	5271.3	5276.6	5195.4	5067.2	4937.4	4839.9	4809.3	4693.7	4502.5	4286.0	4049.5
20°	5018.7	5043.9	4989.6	4876.0	4803.9	4737.0	4717.2	4619.8	4446.5	4233.6	3999.0
22.5°	4766.0	4789.5	4767.8	4672.1	4661.2	4621.6	4610.7	4540.4	4397.8	4201.2	3968.4
25°	4580.1	4601.7	4598.2	4515.2	4547.6	4545.8	4536.7	4502.5	4387.0	4201.2	3973.7
27.5°	4529.6	4536.7	4529.6	4453.7	4498.8	4535.0	4527.7	4522.2	4419.4	4253.5	4042.4
30°	4702.7	4691.9	4636.1	4482.6	4524.1	4574.7	4567.4	4571.0	4516.9	4390.6	4195.7
32.5°	5394.0	5345.3	5168.4	4737.0	4627.0	4654.1	4657.6	4717.2	4726.3	4601.7	4433.9
35°	6427.9	6373.8	6144.6	5419.1	4946.3	4852.6	4852.6	4942.7	4996.9	4904.8	4803.9
37.5°	7523.3	7463.7	7341.0	6364.9	5617.7	5197.2	5188.3	5251.4	5328.9	5350.7	5375.8
40°	8768.5	8705.4	8739.7	7425.8	6554.4	5794.5	5666.4	5621.4	5830.7	5969.5	6171.7
42.5°	10130.9	10102.1	10114.7	8607.9	7620.9	6687.8	6505.5	6272.8	6525.4	6772.6	7196.7
45°	11392.5	11417.6	11405.1	9872.9	8808.2	7777.9	7584.7	7133.6	7380.8	7804.8	8496.0
47.5°	12496.9	12392.2	12554.5	11255.3	10138.2	8997.8	8759.6	8155.0	8405.8	8929.2	10098.4
50°	13837.6	13823.2	13585.0	13099.5	11746.1	10223.0	9910.8	9210.6	9600.5	10327.8	12117.9
52.5°	15247.0	14985.3	14767.0	14534.1	13451.4	11479.0	11096.5	10262.7	11004.3	11919.3	14579.3
55°	15535.7	15418.5	15689.2	16080.7	15095.5	12783.7	12338.0	11581.8	12585.3	13738.4	17418.0
57.5°	16153.0	16151.2	16710.5	17409.0	16788.2	14167.9	13718.6	13175.4	14362.8	15822.7	20431.6
60°	16569.7	16687.0	17726.6	19081.7	18450.2	15766.7	15353.6	15014.2	16383.8	18152.4	23239.5
62.5°	16788.2	16947.0	18365.4	19760.2	20799.7	18428.5	18015.2	17526.2	19058.4	20707.6	24881.8
65°	15880.4	16192.6	18266.0	20346.8	22857.1	22743.3	22557.3	21698.4	22402.2	22727.1	24288.1
67.5°	13368.4	13687.8	16102.4	19800.0	24325.9	26904.6	26944.4	25477.3	24459.5	22900.3	20420.8
70°	9524.6	9775.4	11773.1	16600.5	23207.2	29624.2	29759.6	27218.7	24049.9	20308.9	14267.2
72.5°	4522.2	4675.7	6566.9	10804.2	18416.0	27142.8	27404.6	24995.3	20449.6	15035.9	7783.3
75°	1662.0	1708.9	2219.6	4596.3	10681.3	20016.6	20325.1	17917.9	13556.1	7485.4	2964.9
77.5°	996.1	1026.9	1245.2	1939.9	4201.2	11441.2	11897.7	9744.9	5924.5	2786.4	1458.0
80°	696.5	718.3	893.3	1207.3	1985.1	4360.0	4766.0	3977.3	2360.3	1763.2	1061.1
82.5°	471.0	481.9	627.9	815.8	1319.2	1557.3	1680.1	1768.6	1591.6	1312.0	673.1
85°	308.6	319.3	425.8	537.7	839.1	804.8	822.8	1041.2	1162.1	891.5	373.5
87.5°	176.8	184.1	256.2	286.9	411.5	341.0	344.7	548.5	743.4	601.0	227.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P268879

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0	4304.0
2.5°	4287.7	4264.3	4212.0	4179.5	4148.7	4141.5	4128.9	4127.2	4125.2	4125.2	4119.8
5°	4192.1	4152.3	4071.2	4026.1	3988.1	3984.5	3982.7	3991.8	3995.4	3999.0	3993.5
7.5°	4130.8	4076.6	3975.4	3910.5	3865.4	3854.5	3872.7	3914.2	3941.3	3952.1	3946.7
10°	4092.8	4026.1	3908.7	3838.4	3800.5	3795.1	3818.5	3867.3	3923.2	3944.8	3943.0
12.5°	4049.5	3973.7	3849.1	3775.1	3753.6	3764.3	3795.1	3840.2	3897.9	3932.2	3933.9
15°	4006.3	3917.8	3789.7	3724.7	3715.7	3730.1	3759.0	3793.3	3838.4	3872.7	3876.2
17.5°	3953.9	3861.9	3733.7	3666.9	3659.8	3666.9	3668.8	3686.7	3715.7	3748.2	3757.3
20°	3897.9	3804.1	3670.6	3603.8	3571.3	3542.5	3509.9	3513.5	3522.6	3555.0	3562.3
22.5°	3858.2	3764.3	3621.8	3529.8	3443.2	3356.5	3291.6	3282.5	3286.2	3313.2	3322.2
25°	3861.9	3762.6	3609.2	3450.4	3260.8	3122.0	3035.4	3020.9	3019.2	3039.0	3051.5
27.5°	3932.2	3833.0	3656.1	3369.2	3062.4	2856.7	2764.7	2753.8	2739.4	2744.9	2759.2
30°	4089.3	3997.2	3769.7	3286.2	2847.6	2596.8	2501.2	2490.3	2470.5	2461.4	2472.2
32.5°	4345.6	4269.6	3935.8	3206.8	2632.9	2374.8	2277.5	2253.9	2241.4	2230.5	2239.6
35°	4771.3	4738.9	4157.7	3120.2	2443.4	2203.5	2115.0	2078.9	2060.8	2080.7	2095.1
37.5°	5439.1	5457.2	4448.3	2984.8	2297.2	2089.6	2015.7	1974.3	1947.2	1963.3	1979.7
40°	6384.7	6397.3	4769.6	2793.5	2170.9	2023.0	1943.6	1905.7	1867.8	1838.9	1837.0
42.5°	7626.3	7498.2	5085.3	2586.0	2024.8	1981.4	1893.0	1846.0	1788.3	1708.9	1692.6
45°	9098.8	8649.4	5325.3	2347.8	1860.5	1930.8	1837.0	1772.0	1681.8	1595.3	1586.2
47.5°	10795.1	9885.6	5442.7	2100.5	1707.1	1856.9	1768.6	1665.6	1551.9	1508.7	1503.3
50°	12866.8	11352.7	5498.5	1860.5	1573.7	1759.5	1669.2	1548.4	1452.6	1443.7	1438.2
52.5°	15225.4	13117.6	5516.6	1663.8	1463.5	1633.2	1588.1	1470.7	1395.0	1402.2	1402.2
55°	17694.0	14940.3	5271.3	1521.3	1362.5	1503.3	1533.9	1440.1	1376.9	1405.8	1416.5
57.5°	19960.6	16555.4	4498.8	1411.1	1266.8	1404.1	1514.1	1469.0	1425.6	1542.8	1550.1
60°	21700.3	17510.0	3360.2	1312.0	1196.5	1369.6	1566.4	1579.0	1589.8	1869.6	1907.5
62.5°	22064.8	17192.4	2309.9	1234.4	1163.9	1398.5	1662.0	1663.8	1651.3	1846.0	1869.6
65°	20392.0	15183.8	1680.1	1191.1	1136.8	1450.9	1743.3	1705.3	1622.2	1770.3	1727.0
67.5°	16194.5	11439.3	1398.5	1158.5	1097.2	1447.3	1829.8	1743.3	1606.1	1734.2	1663.8
70°	10511.7	6916.9	1245.2	1131.4	1050.3	1378.7	1880.4	1739.7	1559.2	1613.3	1530.4
72.5°	5128.7	3093.0	1142.4	1091.8	1001.5	1283.0	1878.5	1707.1	1510.4	1506.8	1461.7
75°	2006.8	1416.5	1048.5	1032.2	918.5	1174.9	1828.1	1660.2	1452.6	1395.0	1378.7
77.5°	1174.9	1010.6	929.3	943.8	819.3	1066.5	1754.1	1579.0	1373.2	1304.7	1286.7
80°	855.4	756.2	792.2	815.8	700.1	958.2	1654.8	1479.8	1284.8	1319.2	1293.9
82.5°	548.5	487.2	642.5	666.0	582.9	848.2	1546.5	1375.0	1160.3	1053.9	1028.6
85°	279.7	308.6	478.2	507.2	449.3	696.5	1414.8	1236.2	1019.5	877.0	891.5
87.5°	157.1	211.1	305.0	341.0	317.6	536.0	1147.8	1019.5	831.9	676.8	595.5
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)