

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: P318711

Luminaire Tested: **GAN-SA7A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 33161 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

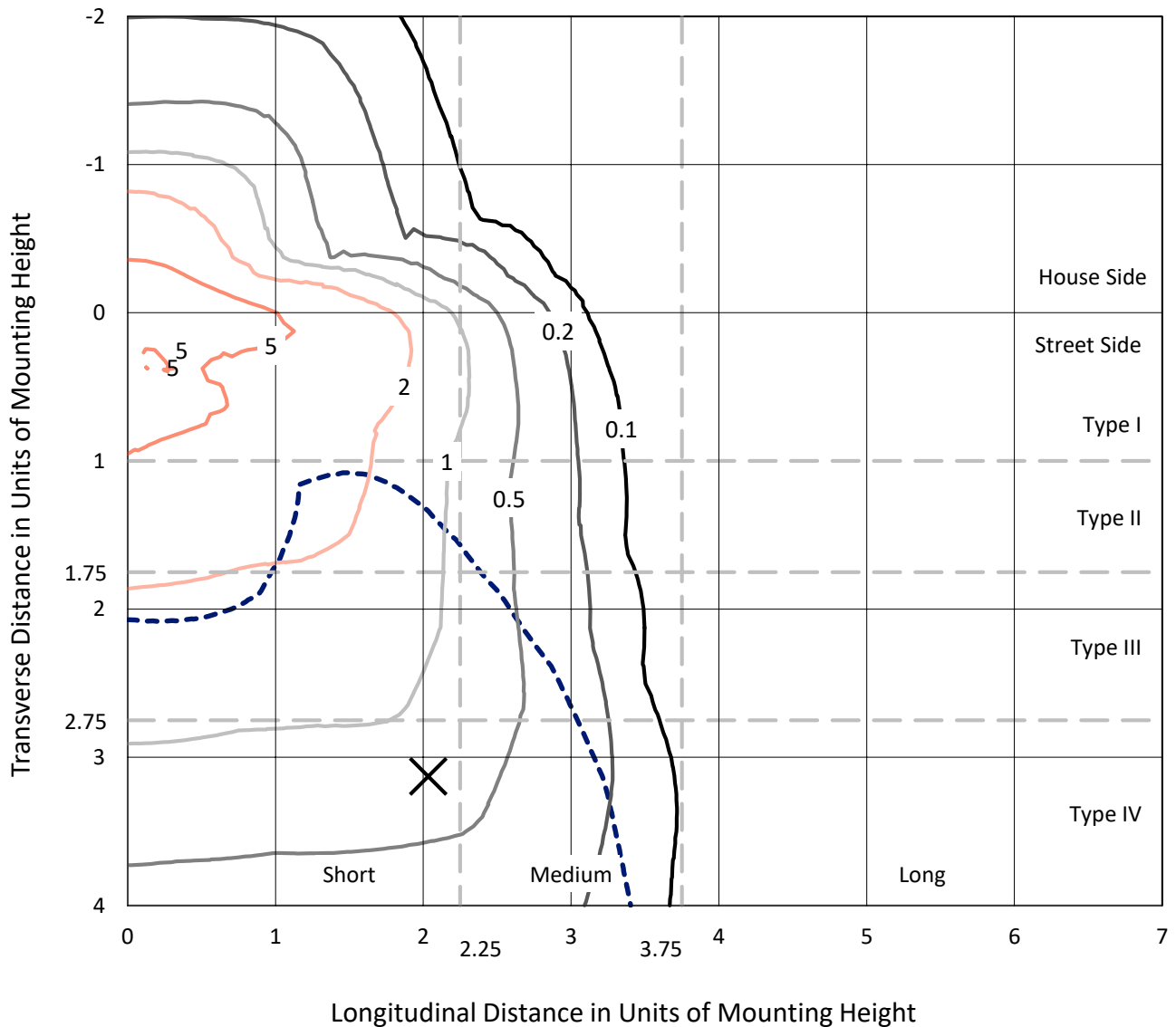
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

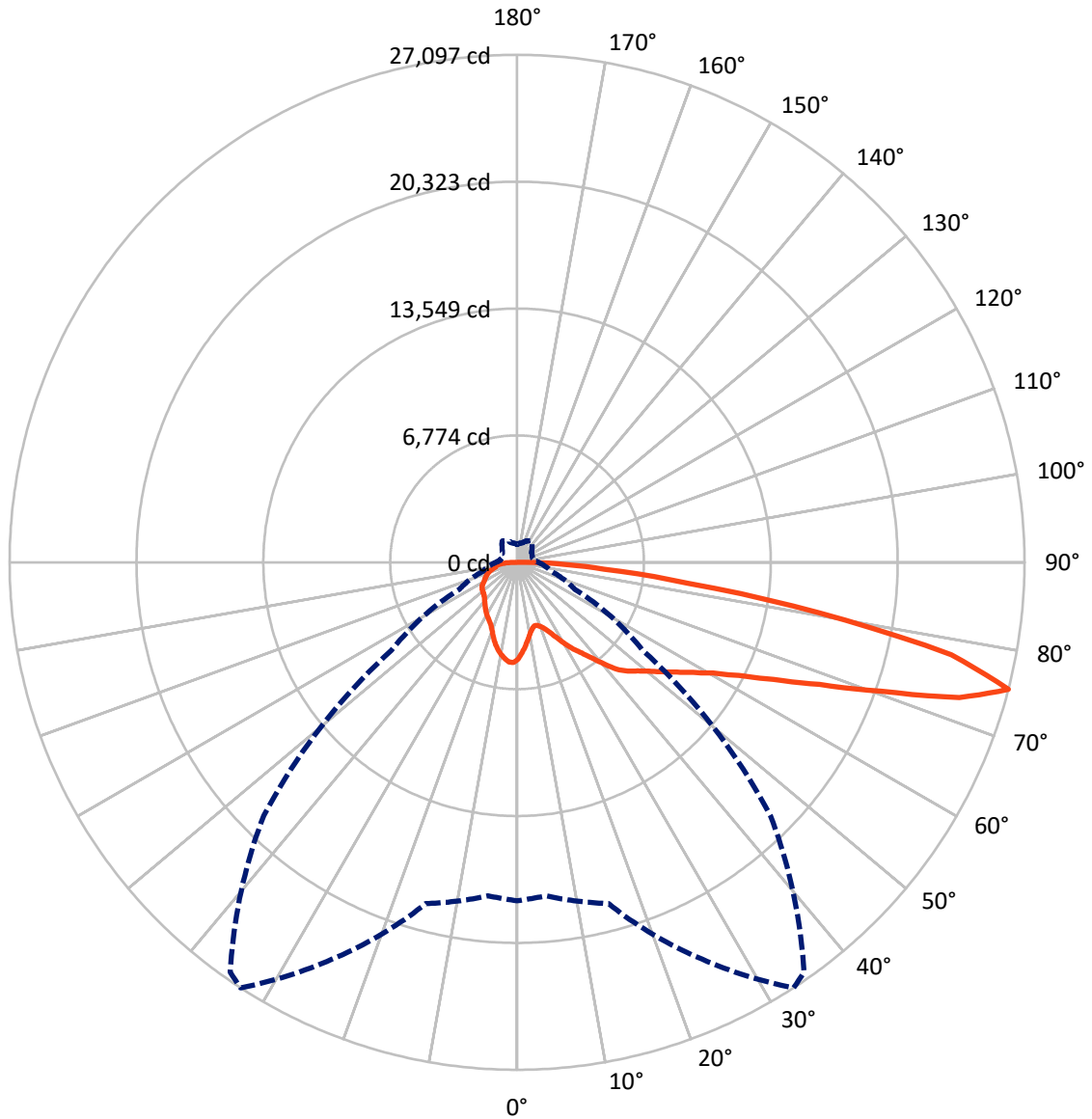
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7120.5	0.0	7120.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26040.5	0.0	26040.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	33161.0	0.0	33161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.8	1.4
10°-20°	1269.6	3.8
20°-30°	2073.4	6.3
30°-40°	3087.8	9.3
40°-50°	4428.8	13.4
50°-60°	6080.1	18.3
60°-70°	7612.0	23.0
70°-80°	6886.2	20.8
80°-90°	1254.4	3.8
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°	33161.0	100.0
0°-180°	33161.0	100.0

Coefficient of Utilization



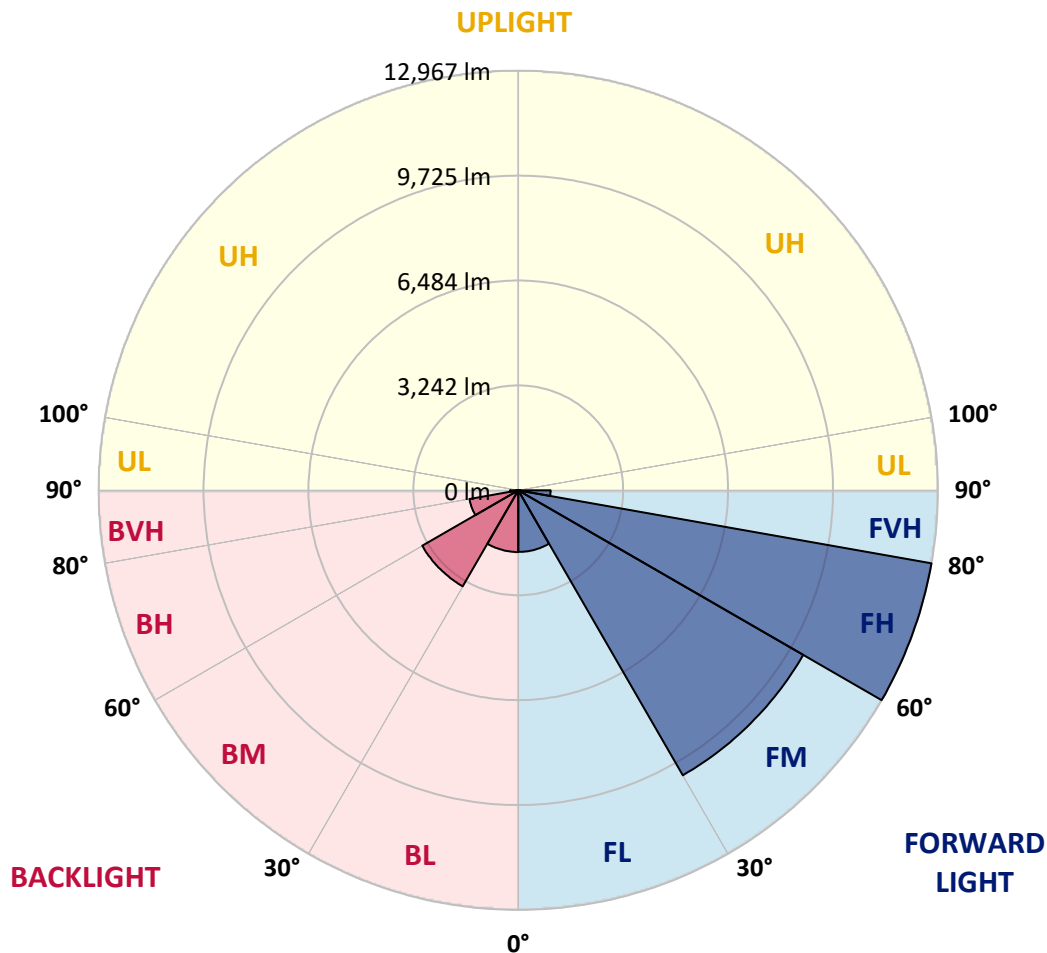
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1904.6	5.7			
FM (30°-60°)	10169.8	30.7			
FH (60°-80°)	12967.1	39.1			G5
FVH (80°-90°)	999.0	3.0			G5
BL (0°-30°)	1907.2	5.8	B3/2500		
BM (30°-60°)	3426.9	10.3	B3/5000		
BH (60°-80°)	1531.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	255.4	0.8			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3
2.5°	4813.3	4794.9	4829.3	4833.9	4863.7	4875.1	4916.4	4980.5	5033.2	5093.9	5148.9
5°	4376.8	4364.2	4412.3	4446.7	4512.0	4539.5	4636.9	4773.2	4894.6	5032.0	5156.9
7.5°	3962.2	3955.3	4009.1	4087.0	4162.6	4200.4	4368.8	4567.0	4769.7	4992.0	5183.3
10°	3612.8	3610.5	3662.1	3738.8	3849.9	3892.3	4109.9	4371.1	4655.2	4961.0	5227.9
12.5°	3416.9	3425.0	3449.0	3513.2	3616.2	3658.6	3900.3	4207.3	4559.0	4950.7	5293.2
15°	3465.0	3477.6	3436.4	3434.1	3507.4	3540.6	3767.4	4090.5	4490.2	4967.9	5388.3
17.5°	3670.1	3672.4	3563.6	3494.8	3539.5	3556.7	3726.2	4024.0	4450.1	5006.8	5507.4
20°	3958.7	3953.0	3760.6	3646.0	3670.1	3674.7	3784.6	4025.2	4446.7	5074.4	5662.1
22.5°	4341.3	4298.9	4040.1	3884.3	3878.6	3871.7	3934.7	4109.9	4497.1	5184.4	5846.5
25°	4840.8	4800.7	4444.4	4231.4	4185.5	4168.4	4177.5	4290.9	4596.8	5302.4	6052.7
27.5°	5396.3	5326.4	4982.8	4681.5	4586.5	4562.4	4507.4	4546.4	4705.6	5415.8	6297.8
30°	5861.4	5823.6	5523.5	5166.1	5053.8	5019.4	4875.1	4832.7	4862.5	5570.4	6607.1
32.5°	6121.4	6096.2	5914.1	5625.4	5521.2	5473.1	5269.2	5184.4	5114.5	5814.4	7026.3
35°	6436.4	6420.4	6310.4	6100.8	5946.1	5895.7	5737.7	5649.5	5469.6	6150.0	7568.1
37.5°	6837.3	6820.1	6822.4	6652.9	6468.5	6421.5	6317.3	6224.5	5930.1	6591.0	8156.9
40°	7290.9	7257.7	7245.1	7237.1	7120.2	7093.9	7038.9	6912.9	6507.4	7117.9	8737.6
42.5°	7973.6	7855.6	7603.6	7698.7	7814.4	7800.6	7845.3	7664.3	7148.9	7741.1	9304.7
45°	8632.3	8438.7	8003.4	8024.0	8277.2	8353.9	8688.4	8560.1	7844.2	8423.8	9891.1
47.5°	8932.4	8785.8	8415.8	8416.9	8667.8	8827.0	9560.1	9468.5	8575.0	9199.3	10607.0
50°	9268.0	9121.4	8789.2	8914.0	9132.8	9302.4	10402.0	10355.0	9270.3	10048.1	11465.0
52.5°	9634.5	9386.0	9175.2	9398.6	9705.6	9902.6	11245.1	11116.8	9908.3	10902.6	12451.3
55°	9639.1	9571.5	9731.9	9895.7	10355.0	10596.7	12128.2	11789.2	10428.4	11742.2	13254.2
57.5°	10187.8	10077.8	10418.0	10493.6	11093.9	11366.5	13006.8	12374.5	10957.6	12386.0	13687.2
60°	10914.0	10820.1	11098.5	11297.8	12008.0	12372.2	13944.9	12975.9	11373.4	12871.6	13666.6
62.5°	12168.3	12061.8	12058.4	12337.9	13294.3	13718.1	14997.6	13565.8	11538.3	12967.9	13083.6
65°	14004.5	13835.0	13515.4	13648.3	15070.9	15493.6	16174.0	13993.1	11320.7	12452.4	11581.8
67.5°	15791.4	15785.7	15392.8	15665.4	17416.9	17755.9	17514.2	14035.4	10641.4	10657.4	8917.5
70°	17572.7	17595.6	17529.1	18477.6	20586.4	20939.2	18941.5	13466.1	9114.5	7696.4	5342.5
72.5°	18983.9	18978.1	19312.6	21758.2	24699.8	24620.7	20144.2	11741.1	6544.1	4154.6	2553.3
75°	18069.8	17870.5	18867.0	23382.5	27097.2	26711.2	19121.3	8190.1	3396.3	1891.2	1374.6
77.5°	11785.7	11974.7	13437.5	19316.1	23702.1	23232.4	14028.6	3821.3	1600.2	1240.5	996.6
80°	4268.0	4467.3	6292.1	10941.5	16329.8	16253.1	6908.3	1570.4	1082.5	937.0	726.2
82.5°	1468.5	1541.8	2482.2	4859.1	9219.9	9563.5	2599.1	892.3	786.9	664.4	497.1
85°	576.2	659.8	1135.2	2337.9	4650.6	4685.0	1052.7	533.8	547.5	435.3	272.6
87.5°	218.8	265.7	543.0	1085.9	2123.7	1950.7	376.9	254.3	311.6	258.9	129.4
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°	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3	5183.3
2.5°	5191.3	5215.3	5265.7	5300.1	5336.7	5347.1	5351.6	5360.8	5370.0	5366.5	5367.7
5°	5223.3	5270.3	5351.6	5386.0	5402.0	5383.7	5348.2	5319.6	5298.9	5287.5	5284.1
7.5°	5276.0	5342.5	5429.5	5423.8	5387.1	5305.8	5214.2	5145.4	5088.2	5067.6	5056.1
10°	5345.9	5423.8	5484.5	5419.2	5312.7	5171.8	5034.3	4927.8	4841.9	4808.7	4803.0
12.5°	5435.3	5514.3	5525.7	5387.1	5210.7	5018.3	4831.6	4690.7	4562.4	4521.2	4512.0
15°	5550.9	5625.4	5554.4	5331.0	5084.7	4825.9	4584.2	4392.9	4257.7	4207.3	4189.0
17.5°	5672.4	5743.4	5560.1	5238.2	4919.8	4597.9	4294.4	4098.5	3943.9	3885.4	3878.6
20°	5817.8	5849.9	5536.1	5105.4	4693.0	4302.4	3982.8	3798.4	3715.9	3674.7	3670.1
22.5°	5997.7	5963.3	5481.1	4925.5	4405.5	3961.0	3701.0	3615.1	3594.5	3585.3	3588.8
25°	6187.8	6082.4	5399.7	4690.7	4042.4	3619.7	3494.8	3518.9	3546.4	3542.9	3542.9
27.5°	6397.4	6203.9	5274.9	4379.1	3640.3	3340.2	3355.1	3443.3	3484.5	3483.4	3482.2
30°	6666.6	6341.3	5115.7	4004.6	3264.6	3143.2	3233.7	3341.3	3397.5	3395.2	3396.3
32.5°	6997.7	6492.5	4899.2	3586.5	2993.1	2997.7	3101.9	3208.5	3273.8	3268.0	3269.2
35°	7384.8	6662.1	4605.9	3174.1	2813.3	2882.0	2964.5	3038.9	3100.8	3092.8	3084.7
37.5°	7806.4	6828.1	4216.5	2805.3	2666.7	2774.3	2843.1	2855.7	2884.3	2863.7	2848.8
40°	8207.3	6955.3	3714.8	2502.9	2518.9	2682.7	2727.4	2677.0	2625.4	2618.5	2597.9
42.5°	8556.7	6997.7	3207.3	2261.2	2363.1	2586.5	2614.0	2508.6	2415.8	2372.3	2353.9
45°	8925.5	7012.6	2734.2	2058.4	2213.0	2500.6	2530.3	2389.4	2258.9	2164.9	2134.0
47.5°	9407.7	7120.2	2366.5	1908.4	2098.5	2443.3	2485.7	2294.4	2124.8	1990.8	1962.2
50°	10038.9	7333.3	2067.6	1793.8	2024.0	2405.5	2453.6	2201.6	2014.9	1853.4	1824.7
52.5°	10739.9	7529.2	1825.9	1701.0	1951.9	2339.0	2412.4	2135.2	1911.8	1726.2	1695.3
55°	11230.2	7379.1	1631.1	1604.8	1858.0	2244.0	2355.1	2079.0	1764.0	1602.5	1575.0
57.5°	11324.1	6865.9	1483.4	1505.1	1744.6	2124.8	2266.9	1954.2	1683.8	1548.7	1520.0
60°	11067.5	6151.2	1373.4	1413.5	1623.1	1974.8	2101.9	1866.0	1607.1	1491.4	1467.3
62.5°	10422.6	5419.2	1292.1	1331.0	1509.7	1822.4	1998.8	1773.2	1529.2	1426.1	1402.1
65°	9120.2	4549.8	1214.2	1257.7	1404.3	1690.7	1906.1	1687.3	1452.5	1373.4	1350.5
67.5°	6884.3	3407.8	1140.9	1179.8	1310.4	1576.2	1805.3	1602.5	1378.0	1327.6	1300.1
70°	4053.8	2134.0	1057.3	1098.5	1211.9	1457.0	1697.6	1509.7	1285.2	1262.3	1226.8
72.5°	1886.6	1284.1	962.2	1002.3	1088.2	1297.8	1559.0	1388.3	1175.3	1124.9	1076.7
75°	1126.0	939.3	849.9	885.4	946.2	1128.3	1384.9	1264.6	1071.0	1004.6	954.2
77.5°	841.9	718.2	726.2	764.0	813.3	987.4	1226.8	1167.2	990.8	939.3	904.9
80°	606.0	545.2	592.2	633.4	685.0	898.0	1175.3	1079.0	895.8	827.0	795.0
82.5°	404.4	391.8	445.6	488.0	538.4	785.8	1104.2	945.0	765.2	678.1	607.1
85°	223.4	236.0	300.1	318.4	362.0	553.3	904.9	759.4	576.2	463.9	443.3
87.5°	92.8	108.8	161.5	155.8	192.4	329.9	595.6	458.2	366.6	273.8	213.1
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)