

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: P318001

Luminaire Tested: **GAN-SA7B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33173 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

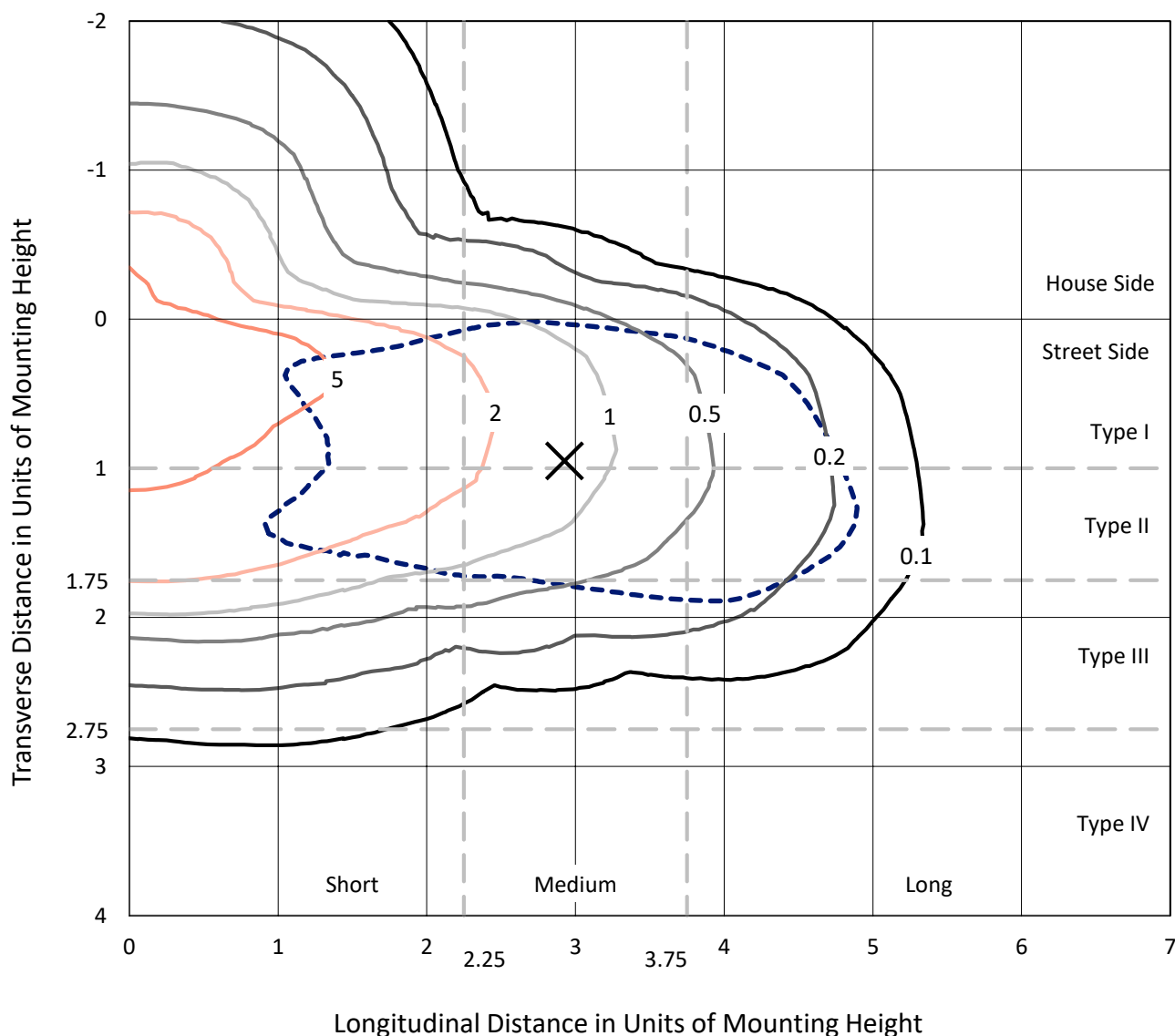
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

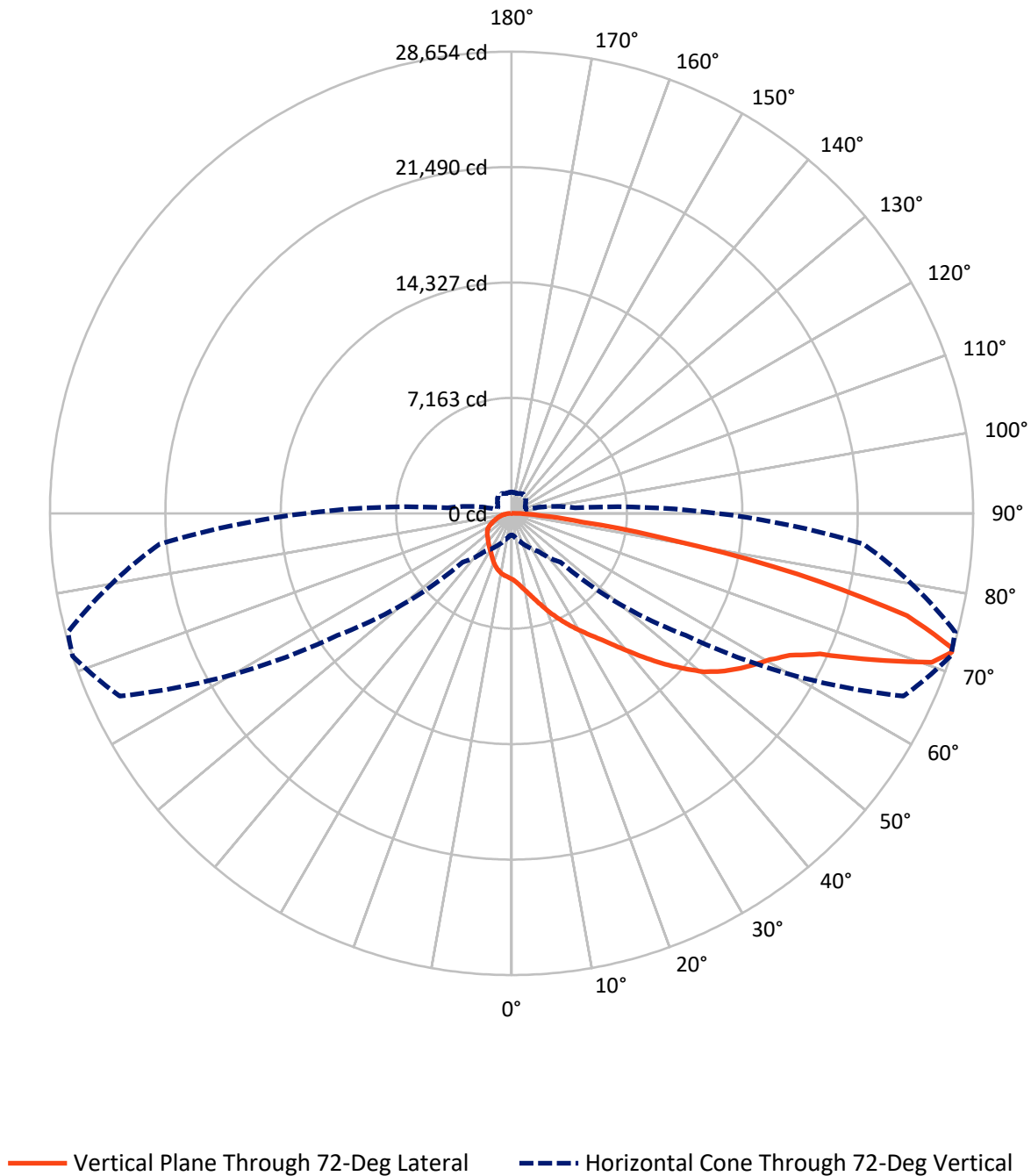
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6153.8	0.0	6153.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27019.2	0.0	27019.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	33173.0	0.0	33173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.9	1.2
10°-20°	1321.5	4.0
20°-30°	2315.7	7.0
30°-40°	3433.4	10.4
40°-50°	5021.7	15.1
50°-60°	6909.8	20.8
60°-70°	7692.7	23.2
70°-80°	5212.5	15.7
80°-90°	856.7	2.6
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°	33173.0	100.0
0°-180°	33173.0	100.0

Coefficient of Utilization



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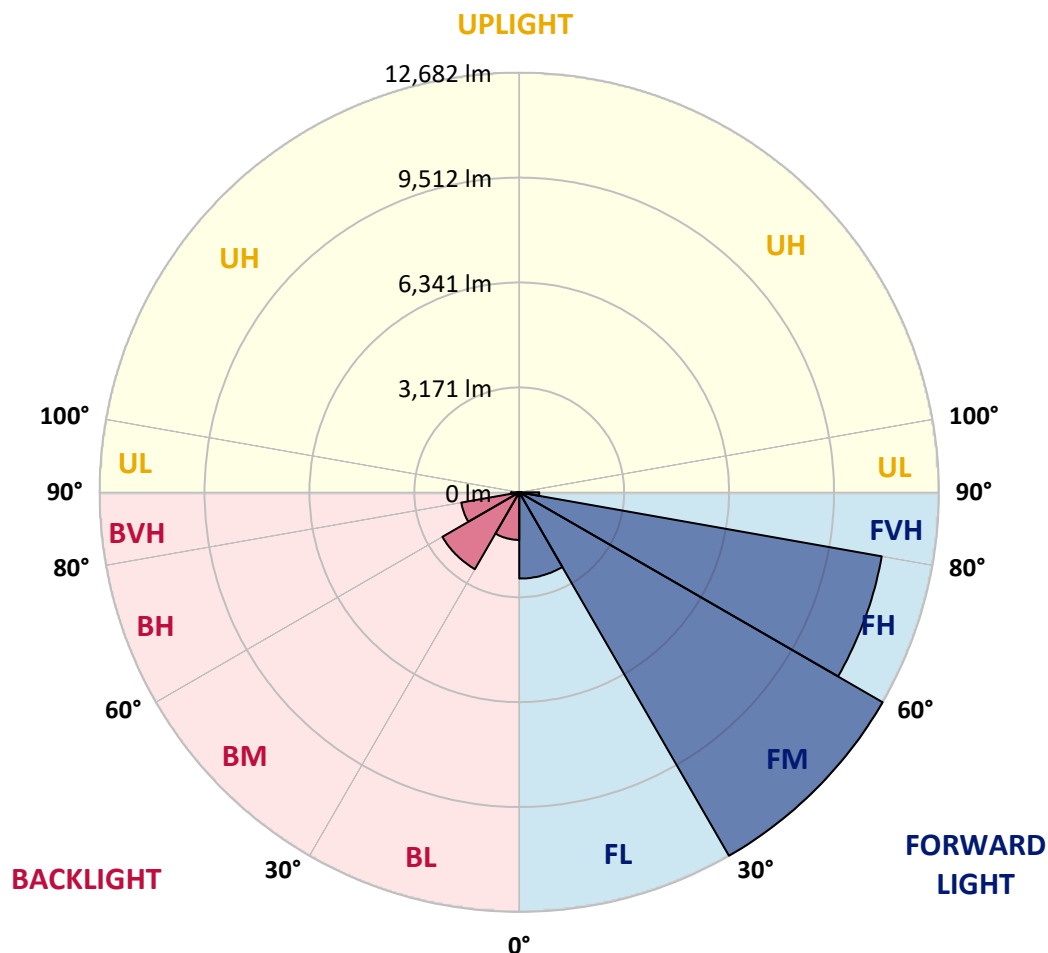
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2607.6	7.9			
FM	(30°-60°)	12682.4	38.2			
FH	(60°-80°)	11124.8	33.5			G4/12000
FVH	(80°-90°)	604.3	1.8			G4/750
BL	(0°-30°)	1438.5	4.3	B3/2500		
BM	(30°-60°)	2682.5	8.1	B3/5000		
BH	(60°-80°)	1780.4	5.4	B3/2500		G3/2500
BVH	(80°-90°)	252.4	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1
2.5°	4508.3	4501.5	4477.5	4477.5	4431.8	4393.0	4319.9	4270.8	4212.5	4191.9	4123.4
5°	4944.7	4946.9	4917.2	4896.7	4829.3	4747.1	4622.6	4509.5	4396.4	4350.7	4210.2
7.5°	5311.3	5306.7	5298.7	5281.6	5218.8	5134.3	4966.4	4798.5	4631.7	4563.2	4321.0
10°	5546.6	5556.9	5563.7	5571.7	5545.5	5484.9	5326.2	5121.7	4903.5	4809.9	4453.5
12.5°	5665.4	5683.7	5715.7	5770.5	5813.9	5807.0	5691.7	5474.7	5215.4	5097.7	4619.1
15°	5735.1	5759.1	5809.3	5907.6	6029.8	6099.4	6068.6	5872.1	5583.2	5438.1	4821.3
17.5°	5778.5	5797.9	5875.6	6006.9	6188.5	6373.6	6454.7	6290.2	5998.9	5833.3	5053.2
20°	5808.2	5823.0	5920.1	6074.3	6309.6	6604.3	6830.5	6789.3	6457.0	6242.2	5295.3
22.5°	5874.4	5887.0	5979.5	6134.9	6395.3	6775.6	7192.5	7254.2	6940.1	6696.8	5554.6
25°	6059.5	6059.5	6137.1	6245.6	6490.1	6924.1	7498.7	7771.7	7433.6	7150.3	5794.5
27.5°	6412.4	6409.0	6437.5	6475.2	6660.3	7074.9	7771.7	8228.5	7945.3	7635.7	6027.5
30°	6830.5	6853.3	6856.7	6838.5	6925.3	7263.4	8024.1	8710.6	8460.4	8126.9	6266.2
32.5°	7368.4	7383.3	7366.2	7305.6	7293.1	7530.6	8271.9	9215.4	9017.8	8639.7	6484.4
35°	8051.5	8022.9	7969.3	7845.9	7728.2	7888.2	8555.2	9720.3	9643.7	9260.0	6784.8
37.5°	8783.7	8784.8	8718.5	8438.7	8276.5	8345.0	8945.9	10292.5	10401.0	9997.8	7169.7
40°	9370.8	9401.6	9442.7	9074.9	8864.8	8959.6	9442.7	10956.2	11296.5	10872.8	7671.1
42.5°	9780.8	9816.2	9932.7	9702.0	9483.8	9659.7	10027.5	11664.3	12301.7	11882.5	8258.2
45°	10214.9	10234.3	10316.5	10217.1	10077.8	10474.1	10686.6	12397.6	13365.1	12958.5	8915.0
47.5°	10671.7	10692.3	10776.8	10710.6	10637.5	11234.9	11374.2	13088.7	14383.9	14140.7	9616.3
50°	11236.0	11249.7	11329.7	11209.7	11232.6	11808.2	11988.7	13722.6	15451.9	15202.9	10319.9
52.5°	12005.9	12009.3	12120.1	12011.6	11904.2	12228.6	12517.6	14320.0	16289.2	16171.5	11023.5
55°	12608.9	12645.5	13008.7	12985.9	12924.2	12610.1	12959.6	14888.8	17036.2	17092.1	11770.6
57.5°	12224.0	12366.8	13102.4	13620.9	14125.8	13559.3	13557.0	15529.6	17730.6	17995.6	12591.8
60°	10706.0	10900.2	11984.1	13134.4	14714.1	15210.9	14797.4	16312.0	18432.0	18891.1	13620.9
62.5°	7646.0	7965.8	9434.7	11271.4	13907.6	16305.2	17321.7	17553.6	19385.7	19928.3	14958.5
65°	3865.3	4107.4	5338.7	7551.2	11111.5	15590.1	20065.3	20272.1	21043.1	21525.1	17017.9
67.5°	2348.4	2439.8	3040.6	4199.9	6812.2	12144.1	20960.8	24803.3	24250.4	24506.3	19954.5
70°	1730.5	1797.9	2172.5	2789.3	3917.8	7126.3	18212.7	28036.9	27673.7	27645.1	22124.8
72°	1347.8	1396.9	1728.2	2253.6	2864.7	4275.3	13200.6	26843.3	28653.7	28509.8	21926.0
72.5°	1278.1	1321.5	1623.1	2121.1	2707.1	3875.5	11868.8	26038.0	28582.9	28517.8	21669.0
75°	1006.3	1037.1	1201.6	1640.2	2118.8	2198.8	6503.8	20178.4	25356.1	26410.4	19489.7
77.5°	832.7	837.2	924.1	1193.6	1651.6	1554.6	3194.8	14000.2	18156.7	19316.0	13806.0
80°	678.5	684.2	725.3	837.2	1249.6	1150.2	1516.9	8050.4	10165.7	10178.3	6565.5
82.5°	540.3	541.4	587.1	612.2	897.8	822.4	869.2	3779.6	4442.1	4273.0	2359.8
85°	380.4	372.4	573.4	502.6	587.1	527.7	479.7	1496.3	1836.7	1756.7	739.0
87.5°	126.8	131.4	254.7	325.5	342.7	299.3	213.6	573.4	693.3	687.6	234.2
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°	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1	4081.1
2.5°	4101.7	4065.2	4011.5	3952.1	3905.2	3857.3	3821.9	3803.6	3783.0	3765.9	3786.5
5°	4145.1	4076.6	3962.4	3850.4	3768.2	3695.1	3642.5	3615.1	3590.0	3572.9	3575.1
7.5°	4215.9	4105.1	3913.2	3749.9	3635.7	3556.9	3503.2	3484.9	3468.9	3464.3	3470.1
10°	4291.3	4128.0	3848.1	3631.1	3500.9	3435.8	3411.8	3424.4	3435.8	3446.1	3457.5
12.5°	4377.0	4148.5	3753.3	3491.8	3381.0	3355.8	3379.8	3434.6	3474.6	3498.6	3513.5
15°	4488.9	4166.8	3643.7	3352.4	3278.2	3306.7	3387.8	3482.6	3552.3	3596.8	3603.7
17.5°	4591.7	4165.7	3503.2	3211.9	3194.8	3278.2	3400.4	3534.0	3627.7	3690.5	3703.1
20°	4697.9	4134.8	3339.8	3074.9	3110.3	3247.3	3406.1	3567.1	3680.2	3753.3	3770.5
22.5°	4797.3	4081.1	3160.5	2950.3	3039.4	3206.2	3384.4	3547.7	3660.8	3720.2	3738.5
25°	4864.7	3987.5	2978.9	2845.3	2976.6	3155.9	3313.6	3444.9	3529.5	3559.2	3563.7
27.5°	4899.0	3865.3	2807.6	2753.9	2911.5	3073.7	3182.2	3247.3	3271.3	3269.0	3264.5
30°	4903.5	3704.2	2660.2	2679.6	2836.1	2952.6	3004.0	2991.5	2960.6	2908.1	2912.7
32.5°	4888.7	3522.6	2536.9	2608.8	2740.2	2805.3	2807.6	2747.0	2664.8	2581.4	2558.6
35°	4893.3	3344.4	2428.4	2528.9	2623.7	2652.2	2626.0	2536.9	2424.9	2317.6	2294.7
37.5°	4943.5	3189.1	2334.7	2436.4	2494.6	2501.5	2463.8	2370.1	2287.9	2182.8	2173.6
40°	5063.5	3078.3	2245.6	2332.4	2365.5	2369.0	2315.3	2249.0	2255.9	2199.9	2198.8
42.5°	5279.3	3030.3	2166.8	2223.9	2244.5	2251.3	2210.2	2167.9	2227.3	2190.8	2178.2
45°	5558.0	3041.7	2100.5	2117.7	2155.4	2187.3	2162.2	2110.8	2133.7	1974.9	1922.4
47.5°	5880.1	3114.8	2048.0	2026.3	2091.4	2151.9	2113.1	2035.4	1954.3	1796.7	1767.0
50°	6257.1	3227.9	2000.0	1936.1	2021.7	2104.0	2065.1	1954.3	1832.1	1755.6	1745.3
52.5°	6650.0	3366.1	1952.1	1836.7	1933.8	2067.4	2048.0	1936.1	1785.3	1709.9	1696.2
55°	7095.5	3505.5	1891.5	1721.3	1839.0	2050.3	2040.0	1869.8	1749.9	1707.6	1697.3
57.5°	7649.4	3664.2	1811.6	1601.4	1749.9	1988.6	1956.6	1829.8	1713.3	1681.3	1677.9
60°	8371.3	3898.4	1696.2	1473.5	1641.4	1893.8	1886.9	1771.6	1655.1	1632.2	1627.7
62.5°	9454.1	4285.6	1537.4	1345.5	1520.3	1732.7	1795.6	1692.8	1593.4	1592.3	1594.5
65°	11133.2	4868.1	1365.0	1233.6	1398.1	1596.8	1689.3	1611.7	1530.6	1553.4	1556.8
67.5°	13079.5	5351.3	1195.9	1123.9	1273.6	1467.7	1593.4	1530.6	1447.2	1506.6	1507.7
70°	13727.2	4919.5	1047.4	1015.4	1144.5	1343.2	1489.5	1441.5	1357.0	1416.4	1410.6
72°	12774.6	3971.5	951.5	933.2	1047.4	1240.4	1396.9	1358.1	1274.7	1314.7	1299.8
72.5°	12474.2	3786.5	927.5	912.6	1021.1	1214.2	1372.9	1337.5	1254.2	1288.4	1274.7
75°	11127.5	3288.4	797.3	800.7	890.9	1086.2	1238.2	1226.7	1141.1	1144.5	1139.9
77.5°	8070.9	2411.2	671.6	694.5	758.4	954.9	1102.2	1095.4	1001.7	984.6	981.2
80°	3745.3	1230.2	547.1	557.4	623.7	798.4	940.0	930.9	855.5	833.8	821.3
82.5°	1282.7	584.8	411.2	418.1	483.2	643.1	815.5	809.8	747.0	704.7	678.5
85°	458.0	291.3	287.8	281.0	344.9	506.0	710.5	679.6	587.1	500.3	498.0
87.5°	148.5	124.5	148.5	147.3	201.0	342.7	516.3	439.8	426.0	354.1	347.2
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)