

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: P318010

Luminaire Tested: **GAN-SA6C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318010
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-SA6C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34718 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

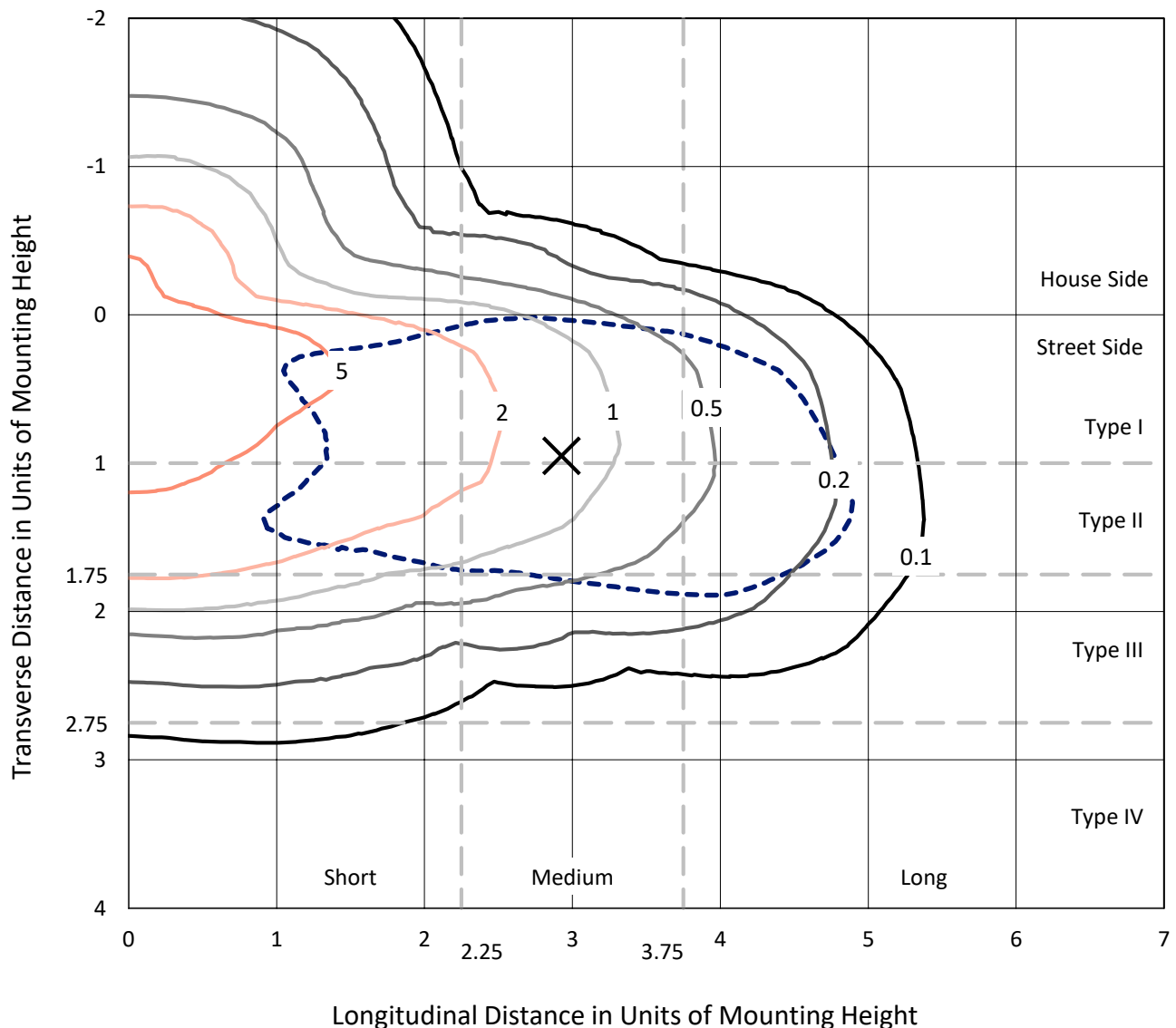
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

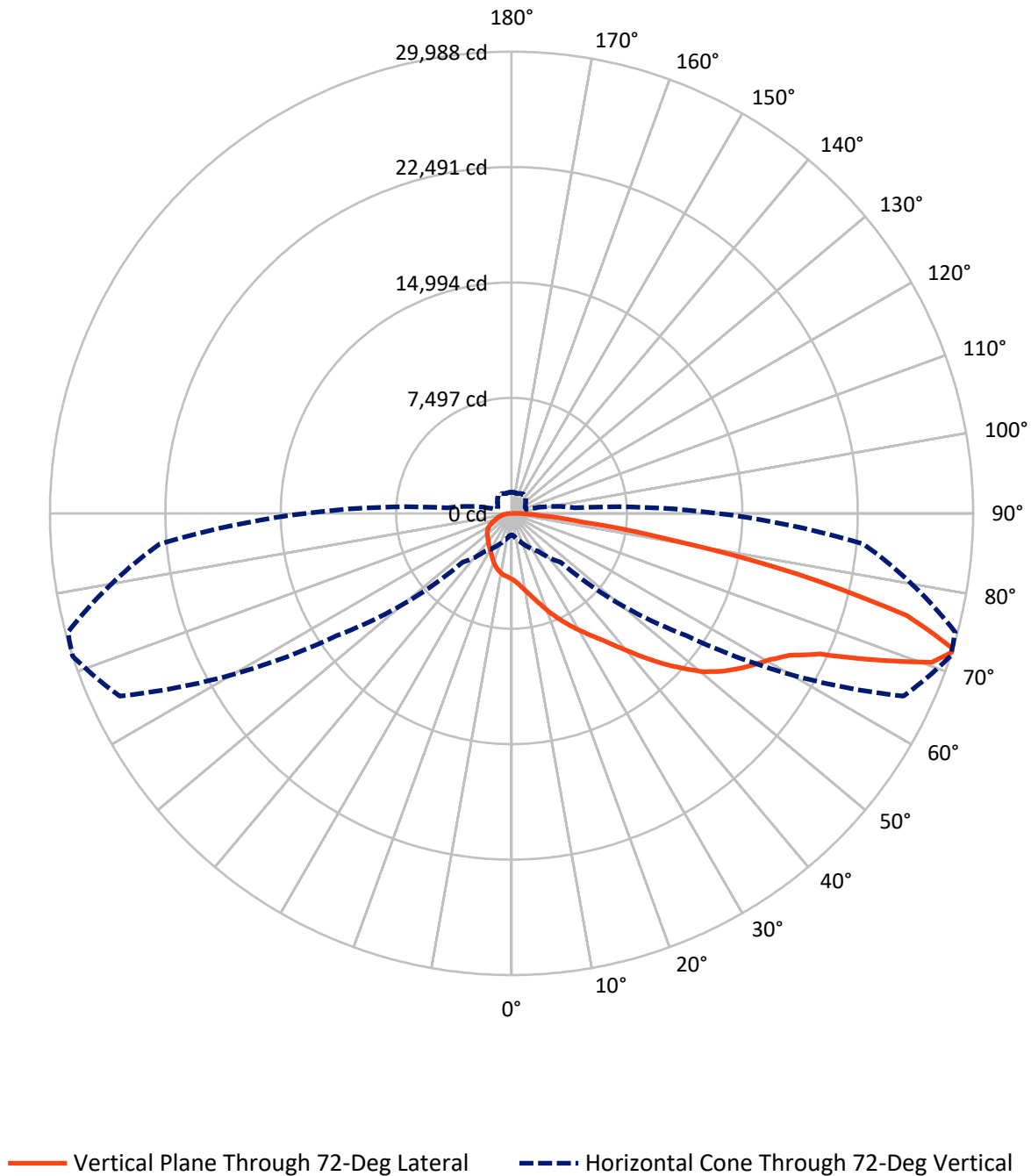
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	6440.4	0.0	6440.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28277.6	0.0	28277.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	34718.0	0.0	34718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.0	1.2
10°-20°	1383.0	4.0
20°-30°	2423.5	7.0
30°-40°	3593.4	10.4
40°-50°	5255.6	15.1
50°-60°	7231.6	20.8
60°-70°	8050.9	23.2
70°-80°	5455.3	15.7
80°-90°	896.6	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°	34718.0	100.0
0°-180°	34718.0	100.0

Coefficient of Utilization



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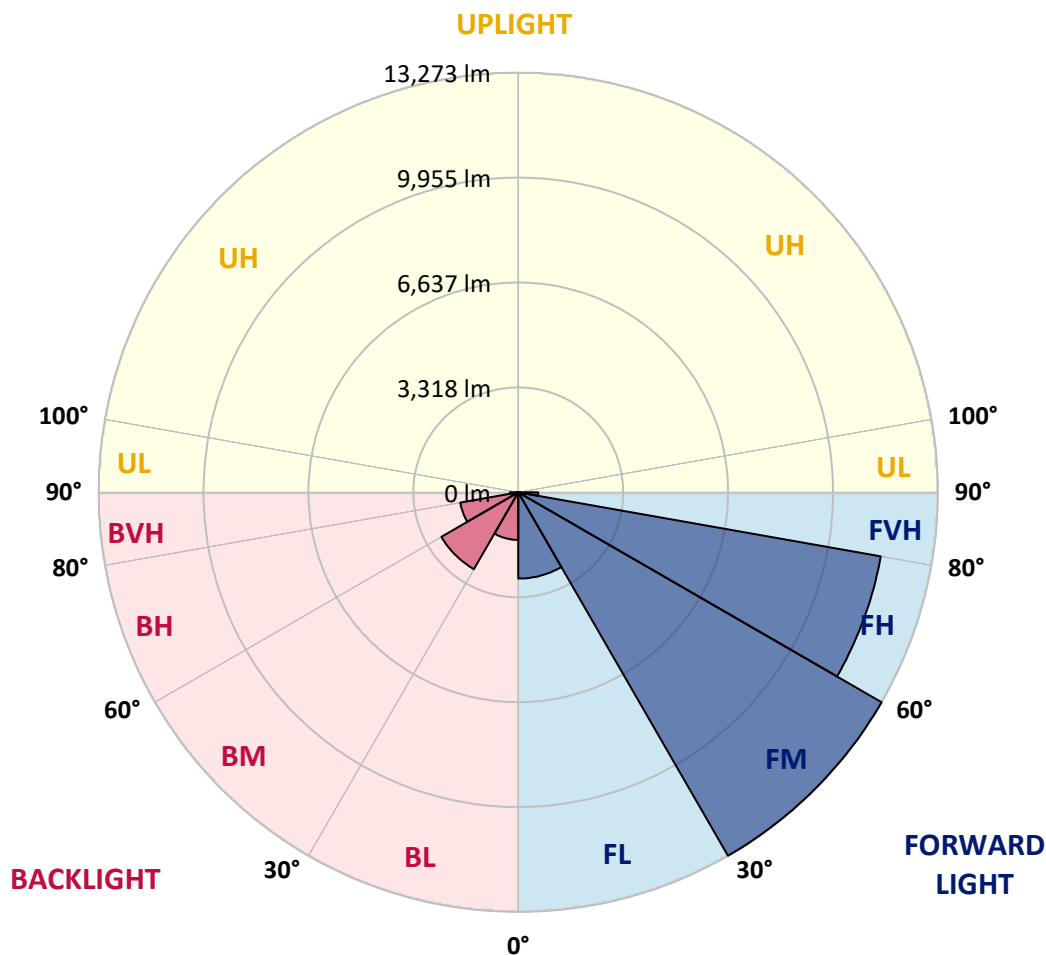
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2729.0	7.9			
FM	(30°-60°)	13273.1	38.2			
FH	(60°-80°)	11643.0	33.5			G4/12000
FVH	(80°-90°)	632.5	1.8			G4/750
BL	(0°-30°)	1505.5	4.3	B3/2500		
BM	(30°-60°)	2807.4	8.1	B3/5000		
BH	(60°-80°)	1863.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	264.2	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°	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2
2.5°	4718.3	4711.1	4686.0	4686.0	4638.2	4597.6	4521.1	4469.7	4408.7	4387.2	4315.5
5°	5175.0	5177.3	5146.3	5124.7	5054.2	4968.1	4837.8	4719.5	4601.2	4553.3	4406.3
7.5°	5558.7	5553.9	5545.5	5527.6	5461.9	5373.4	5197.7	5021.9	4847.4	4775.7	4522.3
10°	5804.9	5815.7	5822.9	5831.2	5803.7	5740.4	5574.2	5360.2	5131.9	5033.9	4660.9
12.5°	5929.3	5948.4	5981.9	6039.2	6084.7	6077.5	5956.8	5729.6	5458.3	5335.1	4834.3
15°	6002.2	6027.3	6079.9	6182.7	6310.6	6383.5	6351.2	6145.6	5843.2	5691.4	5045.8
17.5°	6047.6	6067.9	6149.2	6286.7	6476.8	6670.4	6755.3	6583.2	6278.3	6105.0	5288.5
20°	6078.7	6094.2	6195.8	6357.2	6603.5	6911.9	7148.6	7105.6	6757.7	6532.9	5541.9
22.5°	6148.0	6161.2	6258.0	6420.6	6693.1	7091.2	7527.5	7592.1	7263.3	7008.7	5813.3
25°	6341.7	6341.7	6423.0	6536.5	6792.4	7246.6	7847.9	8133.6	7779.8	7483.3	6064.3
27.5°	6711.1	6707.5	6737.4	6776.8	6970.5	7404.4	8133.6	8611.8	8315.3	7991.4	6308.2
30°	7148.6	7172.5	7176.1	7157.0	7247.8	7601.6	8397.8	9116.2	8854.4	8505.4	6558.0
32.5°	7711.6	7727.2	7709.2	7645.9	7632.7	7881.4	8657.2	9644.6	9437.8	9042.1	6786.4
35°	8426.5	8396.6	8340.4	8211.3	8088.2	8255.5	8953.7	10173.0	10092.9	9691.2	7100.8
37.5°	9192.7	9193.9	9124.6	8831.7	8662.0	8733.7	9362.5	10771.9	10885.5	10463.5	7503.6
40°	9807.2	9839.5	9882.5	9497.6	9277.6	9376.8	9882.5	11466.4	11822.7	11379.2	8028.4
42.5°	10236.3	10273.4	10395.3	10153.9	9925.5	10109.6	10494.6	12207.6	12874.6	12435.9	8642.9
45°	10690.6	10710.9	10797.0	10693.0	10547.2	10962.0	11184.3	12975.0	13987.6	13562.0	9330.2
47.5°	11168.8	11190.3	11278.7	11209.4	11132.9	11758.1	11903.9	13698.3	15053.9	14799.2	10064.2
50°	11759.3	11773.6	11857.3	11731.8	11755.7	12358.2	12547.1	14361.7	16171.6	15911.0	10800.6
52.5°	12565.0	12568.6	12684.6	12571.0	12458.6	12798.1	13100.6	14986.9	17047.8	16924.7	11537.0
55°	13196.2	13234.4	13614.6	13590.7	13526.1	13197.4	13563.2	15582.2	17829.6	17888.2	12318.8
57.5°	12793.3	12942.8	13712.6	14255.3	14783.7	14190.8	14188.4	16252.9	18556.4	18833.8	13178.3
60°	11204.6	11407.9	12542.3	13746.1	15399.3	15919.3	15486.6	17071.7	19290.4	19771.0	14255.3
62.5°	8002.1	8336.8	9874.1	11796.4	14555.4	17064.6	18128.5	18371.1	20288.6	20856.4	15655.2
65°	4045.3	4298.7	5587.4	7902.9	11629.0	16316.2	20999.9	21216.2	22023.1	22527.6	17810.5
67.5°	2457.8	2553.4	3182.2	4395.5	7129.5	12709.7	21937.1	25958.4	25379.9	25647.6	20883.9
70°	1811.1	1881.6	2273.7	2919.2	4100.3	7458.2	19060.9	29342.7	28962.5	28932.6	23155.2
72°	1410.6	1462.0	1808.7	2358.6	2998.1	4474.4	13815.4	28093.5	29988.2	29837.6	22947.2
72.5°	1337.7	1383.1	1698.7	2219.9	2833.1	4056.0	12421.6	27250.7	29914.1	29845.9	22678.2
75°	1053.2	1085.4	1257.6	1716.6	2217.5	2301.2	6806.7	21118.2	26537.0	27640.4	20397.4
77.5°	871.5	876.2	967.1	1249.2	1728.6	1627.0	3343.6	14652.2	19002.3	20215.7	14449.0
80°	710.1	716.1	759.1	876.2	1307.8	1203.8	1587.5	8425.3	10639.2	10652.3	6871.2
82.5°	565.4	566.6	614.4	640.7	939.6	860.7	909.7	3955.6	4649.0	4472.0	2469.7
85°	398.1	389.7	600.1	526.0	614.4	552.3	502.1	1566.0	1922.2	1838.5	773.4
87.5°	132.7	137.5	266.6	340.7	358.6	313.2	223.5	600.1	725.6	719.6	245.1
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°	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2	4271.2
2.5°	4292.7	4254.5	4198.3	4136.1	4087.1	4036.9	3999.9	3980.7	3959.2	3941.3	3962.8
5°	4338.2	4266.4	4146.9	4029.7	3943.7	3867.2	3812.2	3783.5	3757.2	3739.3	3741.7
7.5°	4412.3	4296.3	4095.5	3924.5	3805.0	3722.5	3666.3	3647.2	3630.5	3625.7	3631.7
10°	4491.2	4320.2	4027.4	3800.2	3663.9	3595.8	3570.7	3583.9	3595.8	3606.6	3618.5
12.5°	4580.8	4341.7	3928.1	3654.4	3538.4	3512.1	3537.2	3594.6	3636.5	3661.6	3677.1
15°	4698.0	4360.9	3813.4	3508.5	3430.8	3460.7	3545.6	3644.8	3717.7	3764.4	3771.5
17.5°	4805.6	4359.7	3666.3	3361.5	3343.6	3430.8	3558.8	3698.6	3796.6	3862.4	3875.5
20°	4916.7	4327.4	3495.4	3218.1	3255.1	3398.6	3564.7	3733.3	3851.6	3928.1	3946.1
22.5°	5020.7	4271.2	3307.7	3087.8	3181.0	3355.5	3542.0	3713.0	3831.3	3893.5	3912.6
25°	5091.3	4173.2	3117.6	2977.8	3115.3	3302.9	3467.9	3605.4	3693.8	3724.9	3729.7
27.5°	5127.1	4045.3	2938.3	2882.1	3047.1	3216.9	3330.4	3398.6	3423.7	3421.3	3416.5
30°	5131.9	3876.7	2784.1	2804.4	2968.2	3090.1	3143.9	3130.8	3098.5	3043.5	3048.3
32.5°	5116.4	3686.7	2655.0	2730.3	2867.8	2935.9	2938.3	2875.0	2788.9	2701.6	2677.7
35°	5121.2	3500.2	2541.5	2646.7	2745.9	2775.8	2748.3	2655.0	2537.9	2425.5	2401.6
37.5°	5173.8	3337.6	2443.4	2549.8	2610.8	2618.0	2578.5	2480.5	2394.4	2284.4	2274.9
40°	5299.3	3221.6	2350.2	2441.0	2475.7	2479.3	2423.1	2353.8	2360.9	2302.4	2301.2
42.5°	5525.2	3171.4	2267.7	2327.5	2349.0	2356.2	2313.1	2268.9	2331.1	2292.8	2279.7
45°	5816.9	3183.4	2198.4	2216.3	2255.7	2289.2	2262.9	2209.1	2233.0	2066.9	2011.9
47.5°	6154.0	3259.9	2143.4	2120.7	2188.8	2252.2	2211.5	2130.2	2045.4	1880.4	1849.3
50°	6548.5	3378.2	2093.2	2026.2	2115.9	2202.0	2161.3	2045.4	1917.4	1837.4	1826.6
52.5°	6959.7	3522.9	2043.0	1922.2	2023.8	2163.7	2143.4	2026.2	1868.4	1789.5	1775.2
55°	7425.9	3668.7	1979.6	1801.5	1924.6	2145.8	2135.0	1956.9	1831.4	1787.1	1776.4
57.5°	8005.7	3834.9	1895.9	1676.0	1831.4	2081.2	2047.7	1915.1	1793.1	1759.7	1756.1
60°	8761.2	4080.0	1775.2	1542.1	1717.8	1982.0	1974.8	1854.1	1732.2	1708.2	1703.5
62.5°	9894.5	4485.2	1609.0	1408.2	1591.1	1813.4	1879.2	1771.6	1667.6	1666.4	1668.8
65°	11651.7	5094.9	1428.5	1291.0	1463.2	1671.2	1768.0	1686.7	1601.9	1625.8	1629.4
67.5°	13688.7	5600.5	1251.6	1176.3	1332.9	1536.1	1667.6	1601.9	1514.6	1576.8	1577.9
70°	14366.5	5148.7	1096.2	1062.7	1197.8	1405.8	1558.8	1508.6	1420.2	1482.3	1476.3
72°	13369.5	4156.5	995.8	976.7	1096.2	1298.2	1462.0	1421.3	1334.1	1375.9	1360.4
72.5°	13055.1	3962.8	970.7	955.1	1068.7	1270.7	1436.9	1399.8	1312.6	1348.4	1334.1
75°	11645.7	3441.6	834.4	838.0	932.4	1136.8	1295.8	1283.9	1194.2	1197.8	1193.0
77.5°	8446.8	2523.5	702.9	726.8	793.8	999.4	1153.6	1146.4	1048.4	1030.4	1026.9
80°	3919.8	1287.5	572.6	583.4	652.7	835.6	983.8	974.3	895.4	872.7	859.5
82.5°	1342.5	612.1	430.3	437.5	505.7	673.0	853.5	847.5	781.8	737.6	710.1
85°	479.4	304.8	301.2	294.1	361.0	529.6	743.5	711.3	614.4	523.6	521.2
87.5°	155.4	130.3	155.4	154.2	210.4	358.6	540.3	460.2	445.9	370.6	363.4
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)