

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: P318169

Luminaire Tested: **GAN-SA5C-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318169
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-SA5C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34691 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

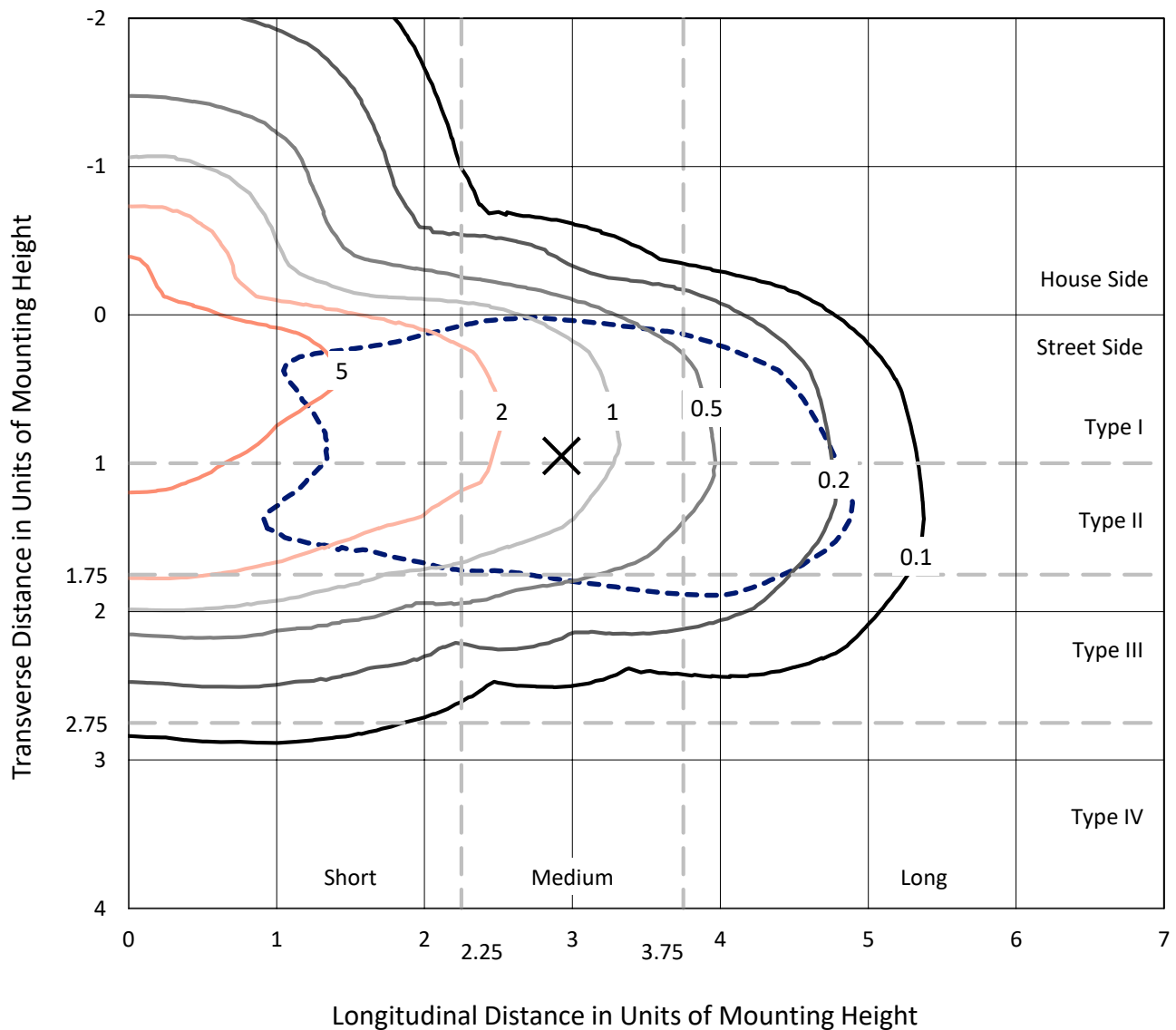
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

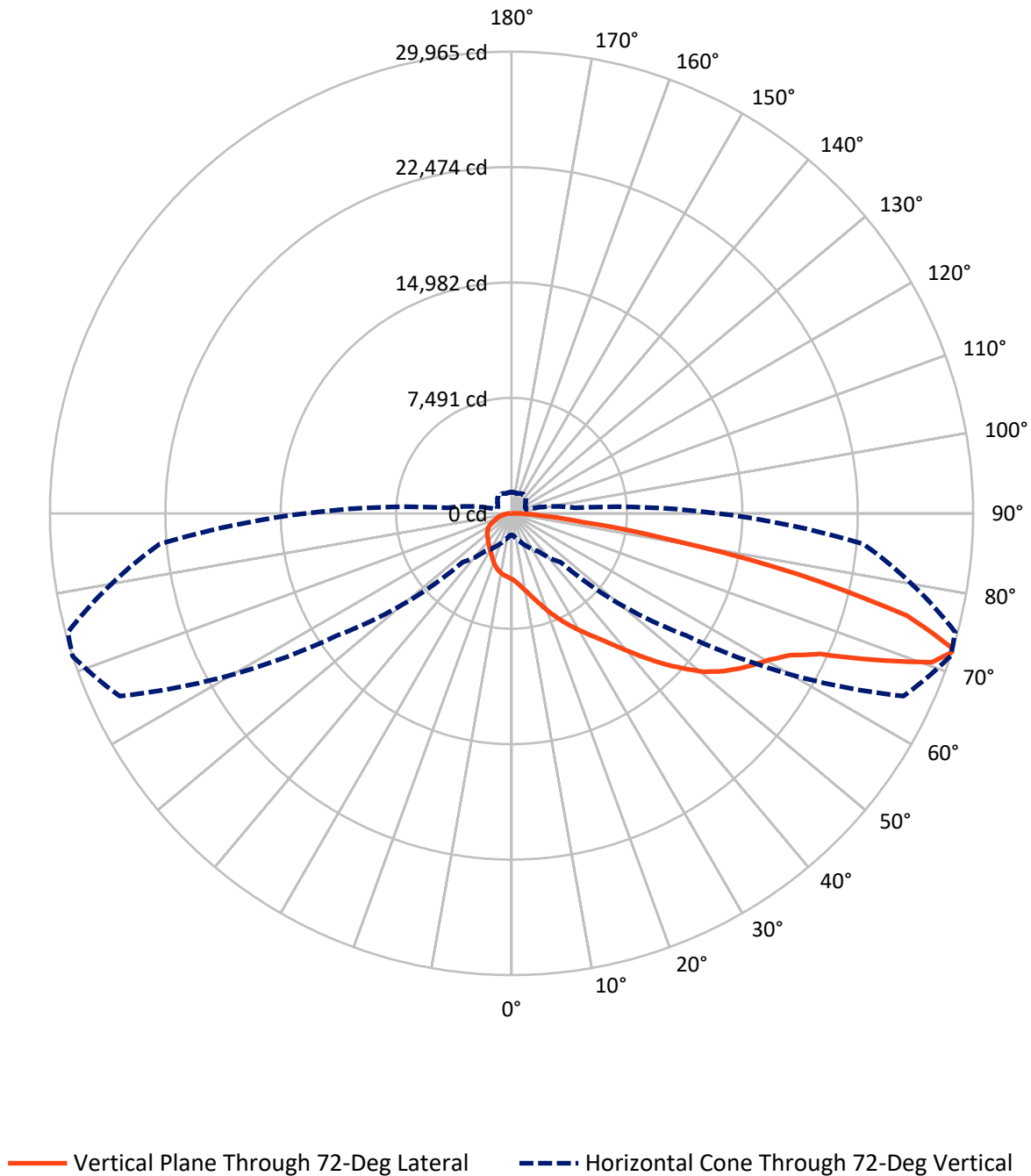
✕ Max cd
 - - - 1/2 Max cd



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	6435.4	0.0	6435.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	28255.6	0.0	28255.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	34691.0	0.0	34691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.7	1.2
10°-20°	1382.0	4.0
20°-30°	2421.7	7.0
30°-40°	3590.6	10.4
40°-50°	5251.5	15.1
50°-60°	7226.0	20.8
60°-70°	8044.7	23.2
70°-80°	5451.1	15.7
80°-90°	895.9	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°	34691.0	100.0
0°-180°	34691.0	100.0

Coefficient of Utilization



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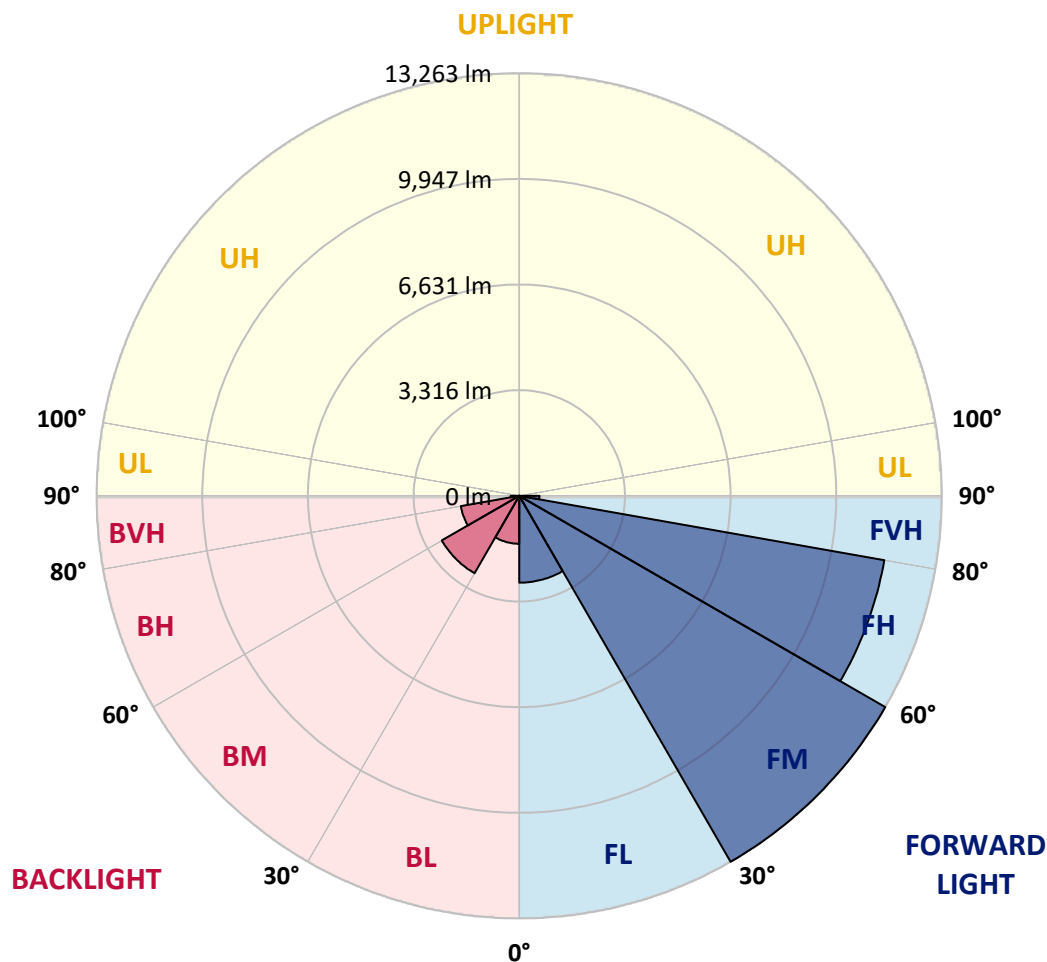
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2726.9	7.9			
FM	(30°-60°)	13262.8	38.2			
FH	(60°-80°)	11633.9	33.5			G4/12000
FVH	(80°-90°)	632.0	1.8			G4/750
BL	(0°-30°)	1504.4	4.3	B3/2500		
BM	(30°-60°)	2805.2	8.1	B3/5000		
BH	(60°-80°)	1861.8	5.4	B3/2500		G3/2500
BVH	(80°-90°)	264.0	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°	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9
2.5°	4714.6	4707.5	4682.4	4682.4	4634.6	4594.0	4517.5	4466.2	4405.3	4383.8	4312.1
5°	5170.9	5173.3	5142.3	5120.8	5050.3	4964.3	4834.1	4715.8	4597.6	4549.8	4402.9
7.5°	5554.4	5549.6	5541.2	5523.3	5457.6	5369.2	5193.6	5018.0	4843.6	4772.0	4518.7
10°	5800.4	5811.2	5818.3	5826.7	5799.2	5735.9	5569.9	5356.1	5127.9	5030.0	4657.3
12.5°	5924.6	5943.8	5977.2	6034.5	6079.9	6072.8	5952.1	5725.2	5454.0	5331.0	4830.5
15°	5997.5	6022.6	6075.2	6177.9	6305.7	6378.6	6346.3	6140.9	5838.6	5686.9	5041.9
17.5°	6042.9	6063.2	6144.4	6281.8	6471.7	6665.2	6750.0	6578.0	6273.4	6100.2	5284.4
20°	6074.0	6089.5	6191.0	6352.3	6598.3	6906.5	7143.0	7100.0	6752.4	6527.9	5537.6
22.5°	6143.2	6156.4	6253.1	6415.6	6687.9	7085.7	7521.7	7586.2	7257.7	7003.3	5808.8
25°	6336.7	6336.7	6418.0	6531.4	6787.1	7241.0	7841.8	8127.3	7773.7	7477.5	6059.6
27.5°	6705.8	6702.3	6732.1	6771.5	6965.0	7398.6	8127.3	8605.1	8308.8	7985.1	6303.3
30°	7143.0	7166.9	7170.5	7151.4	7242.2	7595.7	8391.3	9109.1	8847.6	8498.8	6552.9
32.5°	7705.6	7721.2	7703.2	7639.9	7626.8	7875.2	8650.5	9637.1	9430.5	9035.1	6781.1
35°	8419.9	8390.1	8333.9	8204.9	8081.9	8249.1	8946.7	10165.1	10085.0	9683.7	7095.2
37.5°	9185.6	9186.8	9117.5	8824.9	8655.2	8726.9	9355.2	10763.5	10877.0	10455.3	7497.8
40°	9799.6	9831.8	9874.8	9490.2	9270.4	9369.5	9874.8	11457.5	11813.5	11370.3	8022.2
42.5°	10228.4	10265.4	10387.2	10146.0	9917.8	10101.8	10486.4	12198.1	12864.6	12426.2	8636.1
45°	10682.3	10702.6	10788.6	10684.7	10538.9	10953.4	11175.6	12964.9	13976.7	13551.4	9323.0
47.5°	11160.1	11181.6	11270.0	11200.7	11124.2	11749.0	11894.7	13687.6	15042.2	14787.7	10056.4
50°	11750.2	11764.5	11848.1	11722.7	11746.6	12348.6	12537.3	14350.6	16159.0	15898.6	10792.2
52.5°	12555.2	12558.8	12674.7	12561.2	12448.9	12788.2	13090.4	14975.3	17034.6	16911.5	11528.0
55°	13185.9	13224.2	13604.0	13580.1	13515.6	13187.1	13552.6	15570.1	17815.8	17874.3	12309.2
57.5°	12783.4	12932.7	13701.9	14244.2	14772.2	14179.7	14177.4	16240.2	18542.0	18819.1	13168.0
60°	11195.9	11399.0	12532.5	13735.4	15387.4	15907.0	15474.6	17058.5	19275.4	19755.6	14244.2
62.5°	7995.9	8330.3	9866.5	11787.2	14544.1	17051.3	18114.4	18356.9	20272.8	20840.2	15643.0
65°	4042.1	4295.4	5583.0	7896.7	11620.0	16303.5	20983.5	21199.7	22006.0	22510.1	17796.6
67.5°	2455.9	2551.4	3179.7	4392.1	7123.9	12699.8	21920.0	25938.3	25360.1	25627.7	20867.7
70°	1809.6	1880.1	2271.9	2916.9	4097.1	7452.4	19046.1	29319.9	28940.0	28910.1	23137.2
72°	1409.5	1460.9	1807.3	2356.7	2995.8	4471.0	13804.7	28071.6	29964.9	29814.4	22929.4
72.5°	1336.6	1382.0	1697.4	2218.2	2830.9	4052.9	12411.9	27229.5	29890.8	29822.7	22660.6
75°	1052.3	1084.6	1256.6	1715.3	2215.8	2299.4	6801.4	21101.8	26516.4	27618.9	20381.5
77.5°	870.8	875.6	966.3	1248.2	1727.2	1625.7	3341.0	14640.8	18987.5	20200.0	14437.8
80°	709.5	715.5	758.5	875.6	1306.8	1202.8	1586.3	8418.7	10630.9	10644.1	6865.9
82.5°	565.0	566.2	614.0	640.2	938.9	860.0	909.0	3952.6	4645.4	4468.6	2467.8
85°	397.8	389.4	599.6	525.6	614.0	551.9	501.7	1564.8	1920.7	1837.1	772.8
87.5°	132.6	137.4	266.4	340.4	358.3	313.0	223.4	599.6	725.1	719.1	244.9
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°	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9	4267.9
2.5°	4289.4	4251.2	4195.0	4132.9	4083.9	4033.8	3996.7	3977.6	3956.1	3938.2	3959.7
5°	4334.8	4263.1	4143.7	4026.6	3940.6	3864.2	3809.2	3780.5	3754.3	3736.4	3738.7
7.5°	4408.8	4293.0	4092.3	3921.5	3802.0	3719.6	3663.5	3644.4	3627.7	3622.9	3628.8
10°	4487.7	4316.9	4024.2	3797.3	3661.1	3593.0	3567.9	3581.1	3593.0	3603.8	3615.7
12.5°	4577.3	4338.4	3925.1	3651.5	3535.7	3509.4	3534.5	3591.8	3633.6	3658.7	3674.2
15°	4694.3	4357.5	3810.4	3505.8	3428.2	3458.0	3542.8	3642.0	3714.9	3761.4	3768.6
17.5°	4801.8	4356.3	3663.5	3358.9	3341.0	3428.2	3556.0	3695.7	3793.7	3859.4	3872.5
20°	4912.9	4324.0	3492.7	3215.6	3252.6	3395.9	3562.0	3730.4	3848.6	3925.1	3943.0
22.5°	5016.8	4267.9	3305.1	3085.4	3178.5	3352.9	3539.3	3710.1	3828.3	3890.4	3909.6
25°	5087.3	4170.0	3115.2	2975.5	3112.8	3300.4	3465.2	3602.6	3691.0	3722.0	3726.8
27.5°	5123.1	4042.1	2936.0	2879.9	3044.7	3214.4	3327.8	3395.9	3421.0	3418.6	3413.8
30°	5127.9	3873.7	2782.0	2802.3	2965.9	3087.7	3141.5	3128.4	3096.1	3041.2	3045.9
32.5°	5112.4	3683.8	2653.0	2728.2	2865.6	2933.7	2936.0	2872.7	2786.7	2699.5	2675.6
35°	5117.2	3497.5	2539.5	2644.6	2743.7	2773.6	2746.1	2653.0	2535.9	2423.6	2399.7
37.5°	5169.7	3335.0	2441.5	2547.8	2608.8	2615.9	2576.5	2478.6	2392.6	2282.7	2273.1
40°	5295.2	3219.1	2348.4	2439.1	2473.8	2477.4	2421.2	2351.9	2359.1	2300.6	2299.4
42.5°	5520.9	3169.0	2265.9	2325.7	2347.2	2354.3	2311.3	2267.1	2329.2	2291.0	2277.9
45°	5812.4	3180.9	2196.7	2214.6	2254.0	2287.4	2261.2	2207.4	2231.3	2065.3	2010.3
47.5°	6149.2	3257.4	2141.7	2119.0	2187.1	2250.4	2209.8	2128.6	2043.8	1878.9	1847.9
50°	6543.4	3375.6	2091.5	2024.7	2114.2	2200.2	2159.6	2043.8	1916.0	1835.9	1825.2
52.5°	6954.3	3520.1	2041.4	1920.7	2022.3	2162.0	2141.7	2024.7	1867.0	1788.1	1773.8
55°	7420.1	3665.9	1978.1	1800.1	1923.1	2144.1	2133.4	1955.4	1830.0	1785.8	1775.0
57.5°	7999.5	3831.9	1894.5	1674.7	1830.0	2079.6	2046.2	1913.6	1791.7	1758.3	1754.7
60°	8754.4	4076.8	1773.8	1540.9	1716.5	1980.5	1973.3	1852.6	1730.8	1706.9	1702.1
62.5°	9886.8	4481.7	1607.8	1407.1	1589.9	1812.0	1877.7	1770.2	1666.3	1665.1	1667.5
65°	11642.7	5090.9	1427.4	1290.0	1462.1	1669.9	1766.6	1685.4	1600.6	1624.5	1628.1
67.5°	13678.1	5596.2	1250.6	1175.4	1331.9	1534.9	1666.3	1600.6	1513.4	1575.5	1576.7
70°	14355.3	5144.7	1095.3	1061.9	1196.9	1404.7	1557.6	1507.4	1419.0	1481.2	1475.2
72°	13359.1	4153.2	995.0	975.9	1095.3	1297.2	1460.9	1420.2	1333.0	1374.9	1359.3
72.5°	13045.0	3959.7	969.9	954.4	1067.9	1269.7	1435.8	1398.7	1311.5	1347.4	1333.0
75°	11636.7	3438.9	833.8	837.3	931.7	1136.0	1294.8	1282.9	1193.3	1196.9	1192.1
77.5°	8440.2	2521.6	702.4	726.2	793.1	998.6	1152.7	1145.5	1047.6	1029.6	1026.1
80°	3916.7	1286.5	572.2	582.9	652.2	834.9	983.1	973.5	894.7	872.0	858.8
82.5°	1341.4	611.6	430.0	437.2	505.3	672.5	852.9	846.9	781.2	737.0	709.5
85°	479.0	304.6	301.0	293.8	360.7	529.2	743.0	710.7	614.0	523.2	520.8
87.5°	155.3	130.2	155.3	154.1	210.2	358.3	539.9	459.9	445.5	370.3	363.1
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)