

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: P383511

Luminaire Tested: **GAN-SA8A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383511
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-SA8A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34142.1 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

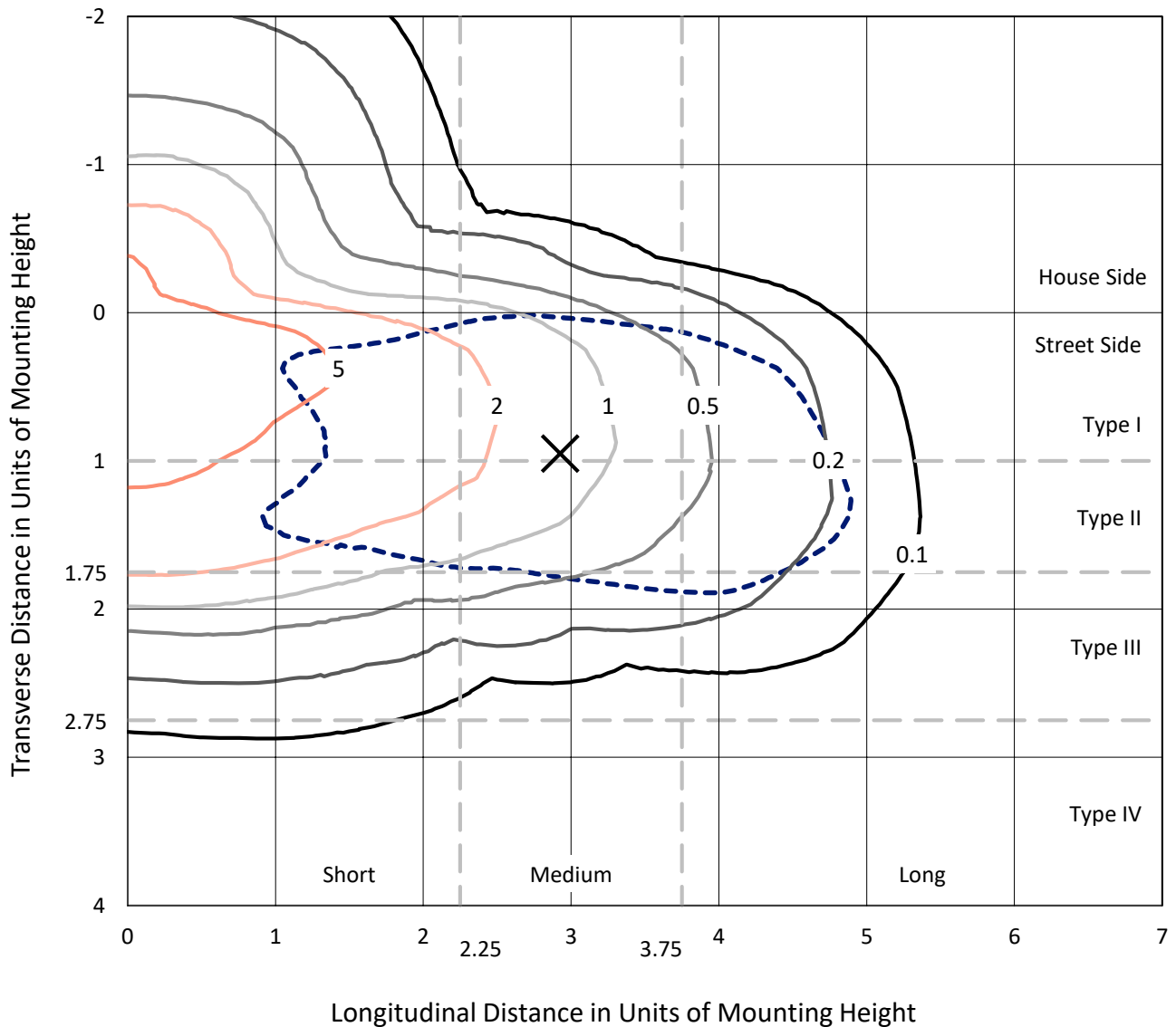
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

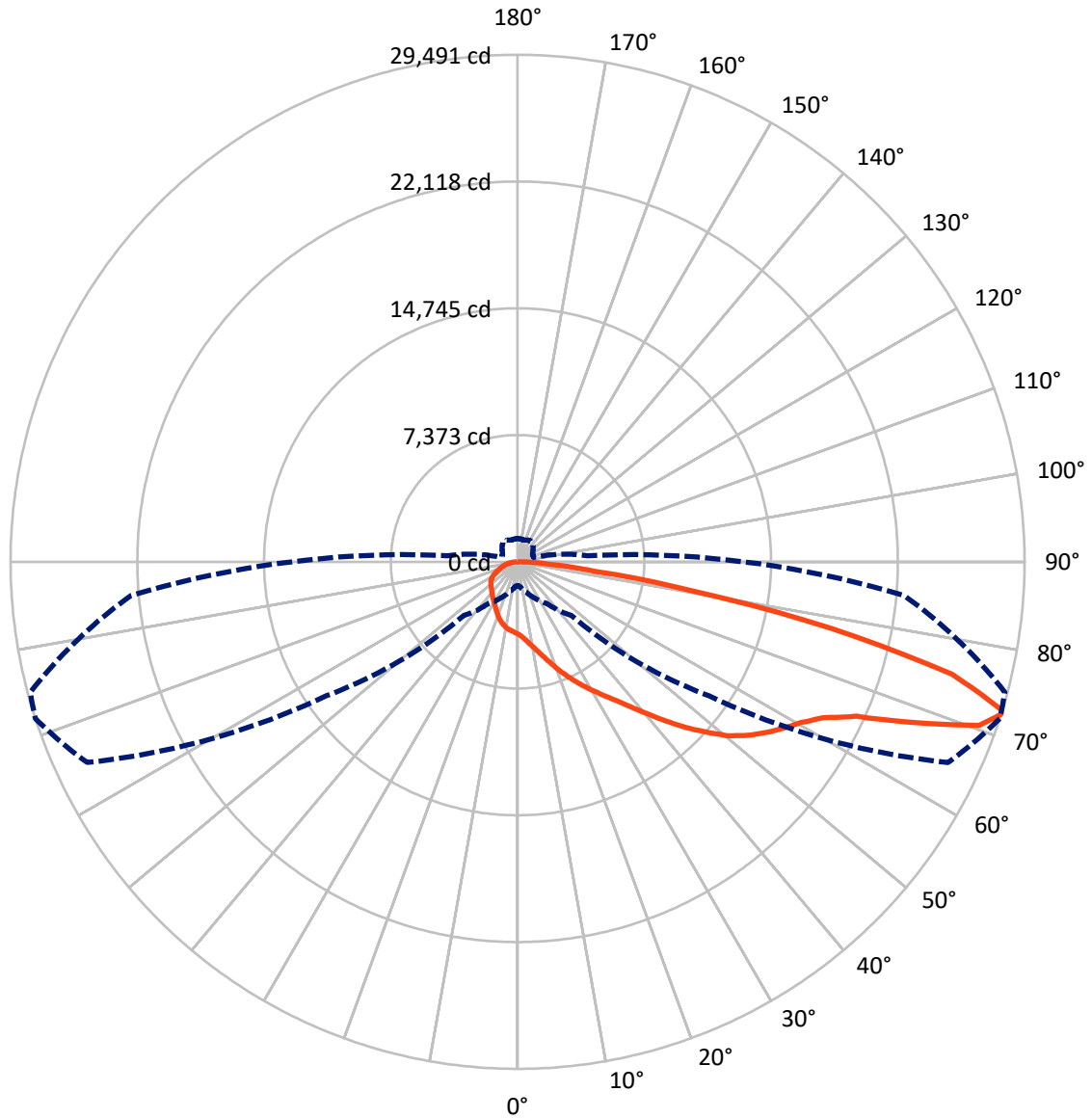
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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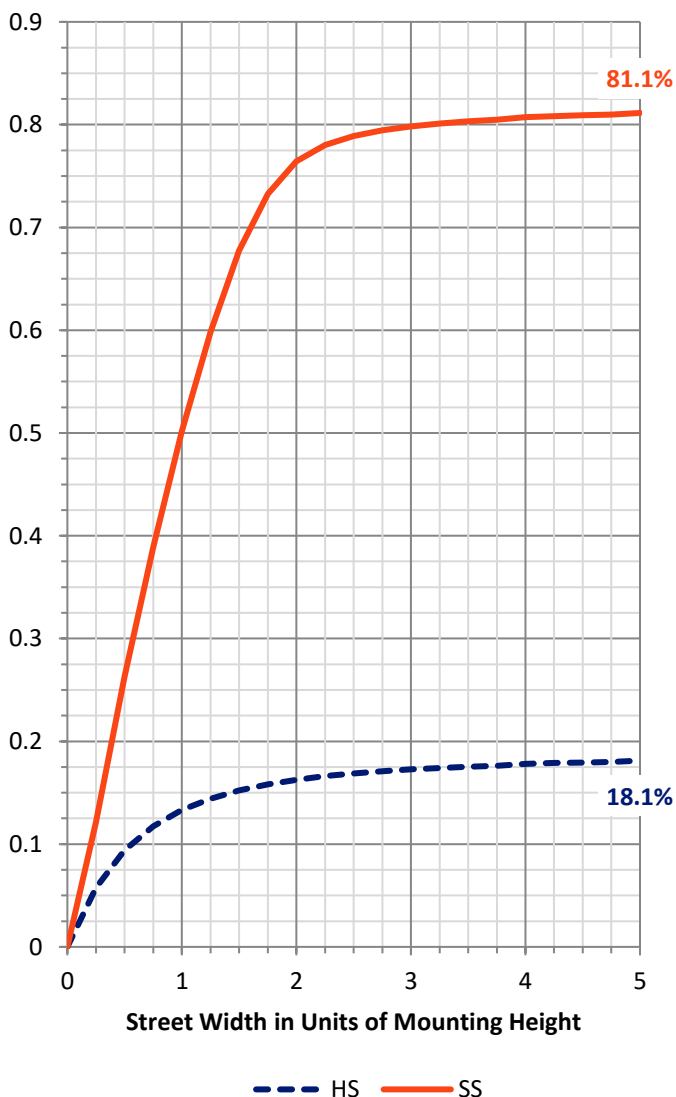
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6333.6	0.0	6333.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27808.6	0.0	27808.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	34142.1	0.0	34142.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.9	1.2
10°-20°	1360.1	4.0
20°-30°	2383.3	7.0
30°-40°	3533.8	10.4
40°-50°	5168.4	15.1
50°-60°	7111.7	20.8
60°-70°	7917.4	23.2
70°-80°	5364.8	15.7
80°-90°	881.8	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°	34142.1	100.0
0°-180°	34142.1	100.0

Coefficient of Utilization

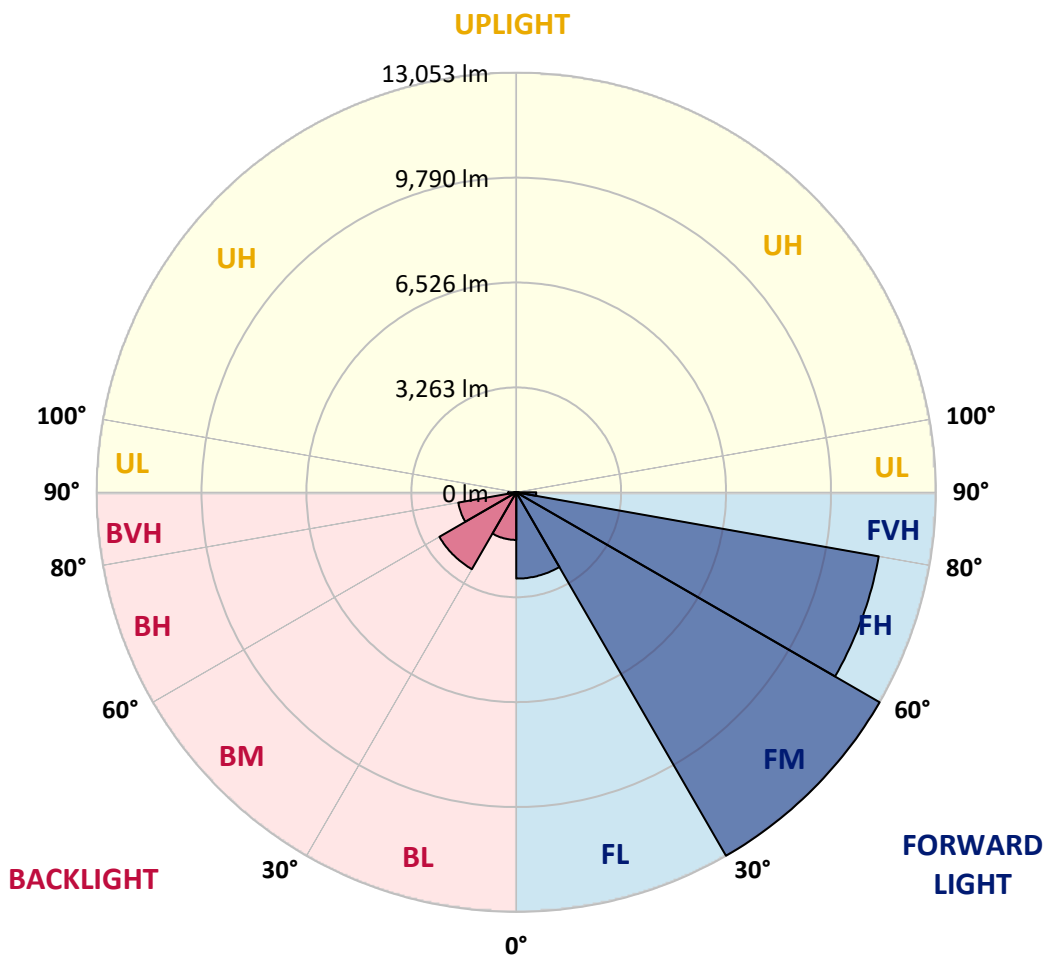


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2683.8	7.9			
FM (30°-60°)	13053.0	38.2			
FH (60°-80°)	11449.8	33.5			G4/12000
FVH (80°-90°)	622.0	1.8			G4/750
BL (0°-30°)	1480.6	4.3	B3/2500		
BM (30°-60°)	2760.8	8.1	B3/5000		
BH (60°-80°)	1832.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	259.8	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°	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3
2.5°	4640.0	4633.0	4608.3	4608.3	4561.3	4521.3	4446.1	4395.5	4335.6	4314.4	4243.9
5°	5089.1	5091.5	5060.9	5039.8	4970.4	4885.8	4757.6	4641.2	4524.8	4477.9	4333.2
7.5°	5466.5	5461.8	5453.6	5436.0	5371.3	5284.3	5111.5	4938.6	4767.0	4696.5	4447.2
10°	5708.6	5719.2	5726.3	5734.5	5707.5	5645.2	5481.8	5271.3	5046.8	4950.4	4583.6
12.5°	5830.9	5849.7	5882.6	5939.1	5983.7	5976.7	5857.9	5634.6	5367.8	5246.7	4754.1
15°	5902.7	5927.3	5979.0	6080.1	6206.0	6277.6	6245.9	6043.7	5746.3	5597.0	4962.2
17.5°	5947.3	5967.3	6047.2	6182.4	6369.4	6559.8	6643.2	6474.0	6174.2	6003.7	5200.8
20°	5977.8	5993.1	6093.1	6251.8	6493.9	6797.2	7030.0	6987.7	6645.6	6424.6	5450.0
22.5°	6046.0	6059.0	6154.2	6314.1	6582.1	6973.6	7402.6	7466.2	7142.8	6892.4	5716.9
25°	6236.5	6236.5	6316.5	6428.1	6679.7	7126.4	7717.8	7998.7	7650.7	7359.2	5963.8
27.5°	6599.7	6596.2	6625.6	6664.4	6854.9	7281.6	7998.7	8469.0	8177.4	7858.8	6203.5
30°	7030.0	7053.5	7057.0	7038.2	7127.6	7475.6	8258.5	8965.0	8707.5	8364.3	6449.3
32.5°	7583.7	7599.0	7581.4	7519.1	7506.1	7750.7	8513.6	9484.6	9281.3	8892.2	6673.8
35°	8286.7	8257.3	8202.1	8075.1	7954.0	8118.6	8805.2	10004.3	9925.5	9530.5	6983.0
37.5°	9040.3	9041.4	8973.2	8685.3	8518.4	8588.9	9207.2	10593.2	10704.9	10289.9	7379.2
40°	9644.5	9676.3	9718.6	9340.1	9123.8	9221.3	9718.6	11276.2	11626.6	11190.4	7895.2
42.5°	10066.6	10103.0	10222.9	9985.4	9760.9	9941.9	10320.5	12005.1	12661.0	12229.6	8499.5
45°	10513.3	10533.3	10617.9	10515.6	10372.2	10780.1	10998.8	12759.9	13755.5	13337.1	9175.5
47.5°	10983.5	11004.7	11091.7	11023.5	10948.3	11563.1	11706.5	13471.0	14804.2	14553.8	9897.2
50°	11564.2	11578.4	11660.6	11537.2	11560.7	12153.2	12339.0	14123.5	15903.4	15647.1	10621.4
52.5°	12356.6	12360.1	12474.2	12362.5	12252.0	12585.9	12883.3	14738.4	16765.1	16644.0	11345.6
55°	12977.3	13014.9	13388.8	13365.3	13301.8	12978.5	13338.2	15323.8	17533.9	17591.5	12114.4
57.5°	12581.1	12728.1	13485.2	14018.9	14538.5	13955.4	13953.1	15983.3	18248.6	18521.4	12959.7
60°	11018.8	11218.6	12334.2	13518.1	15143.9	15655.3	15229.8	16788.5	18970.5	19443.1	14018.9
62.5°	7869.3	8198.6	9710.4	11600.7	14314.0	16781.6	17827.8	18066.4	19952.1	20510.4	15395.5
65°	3978.2	4227.5	5494.7	7771.8	11436.1	16045.6	20651.6	20864.3	21657.8	22154.0	17515.1
67.5°	2417.0	2511.1	3129.4	4322.7	7011.2	12498.9	21573.2	25527.9	24958.9	25222.2	20537.6
70°	1781.0	1850.3	2236.0	2870.8	4032.3	7334.4	18744.8	28856.0	28482.2	28452.7	22771.1
72°	1387.2	1437.8	1778.7	2319.5	2948.3	4400.3	13586.2	27627.5	29490.8	29342.6	22566.6
72.5°	1315.4	1360.2	1670.5	2183.1	2786.2	3988.8	12215.6	26798.7	29417.9	29350.9	22302.1
75°	1035.7	1067.5	1236.7	1688.2	2180.8	2263.0	6693.8	20767.9	26096.8	27181.9	20059.0
77.5°	857.0	861.7	951.0	1228.5	1699.9	1599.9	3288.1	14409.2	18687.1	19880.3	14209.4
80°	698.3	704.2	746.5	861.7	1286.1	1183.8	1561.2	8285.6	10462.8	10475.6	6757.3
82.5°	556.0	557.3	604.3	630.1	924.0	846.4	894.7	3890.0	4571.8	4397.8	2428.7
85°	391.4	383.2	590.1	517.3	604.3	543.1	493.7	1540.0	1890.4	1808.0	760.6
87.5°	130.5	135.2	262.1	335.1	352.7	308.0	219.8	590.1	713.6	707.7	241.0
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°	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3
2.5°	4221.5	4184.0	4128.6	4067.5	4019.3	3970.0	3933.6	3914.7	3893.6	3875.9	3897.0
5°	4266.2	4195.7	4078.1	3962.9	3878.2	3803.0	3748.9	3720.7	3694.9	3677.3	3679.6
7.5°	4339.1	4225.0	4027.5	3859.5	3741.9	3660.8	3605.6	3586.7	3570.2	3565.6	3571.5
10°	4416.7	4248.6	3960.6	3737.2	3603.1	3536.2	3511.5	3524.4	3536.2	3546.8	3558.5
12.5°	4504.9	4269.7	3862.9	3593.8	3479.7	3453.9	3478.6	3535.0	3576.1	3600.8	3616.1
15°	4620.1	4288.6	3750.1	3450.4	3374.0	3403.3	3486.8	3584.4	3656.0	3702.0	3709.0
17.5°	4725.8	4287.4	3605.6	3305.8	3288.1	3374.0	3499.7	3637.2	3733.6	3798.3	3811.2
20°	4835.2	4255.6	3437.4	3164.7	3201.2	3342.2	3505.6	3671.3	3787.8	3862.9	3880.6
22.5°	4937.5	4200.3	3252.9	3036.6	3128.2	3299.9	3483.2	3651.4	3767.7	3828.8	3847.7
25°	5006.8	4103.9	3065.9	2928.4	3063.6	3248.1	3410.4	3545.6	3632.6	3663.1	3667.9
27.5°	5042.1	3978.2	2889.6	2834.3	2996.6	3163.5	3275.2	3342.2	3366.9	3364.6	3359.8
30°	5046.8	3812.5	2737.9	2757.9	2919.0	3038.9	3091.8	3078.9	3047.1	2993.1	2997.7
32.5°	5031.5	3625.5	2610.9	2685.0	2820.3	2887.2	2889.6	2827.2	2742.7	2656.9	2633.3
35°	5036.2	3442.2	2499.3	2602.7	2700.4	2729.7	2702.7	2610.9	2495.8	2385.2	2361.8
37.5°	5087.9	3282.2	2402.9	2507.5	2567.4	2574.5	2535.8	2439.4	2354.7	2246.5	2237.1
40°	5211.4	3168.2	2311.2	2400.5	2434.6	2438.1	2382.9	2314.7	2321.8	2264.2	2263.0
42.5°	5433.5	3118.8	2230.1	2288.9	2310.1	2317.0	2274.7	2231.2	2292.4	2254.8	2241.9
45°	5720.4	3130.6	2161.9	2179.5	2218.3	2251.3	2225.4	2172.5	2196.0	2032.6	1978.5
47.5°	6051.9	3205.8	2107.8	2085.5	2152.5	2214.8	2174.8	2094.9	2011.4	1849.2	1818.7
50°	6439.9	3322.2	2058.4	1992.6	2080.8	2165.5	2125.4	2011.4	1885.6	1806.9	1796.3
52.5°	6844.3	3464.4	2009.1	1890.4	1990.3	2127.8	2107.8	1992.6	1837.5	1759.9	1745.7
55°	7302.8	3607.9	1946.7	1771.6	1892.7	2110.1	2099.6	1924.4	1801.0	1757.5	1746.9
57.5°	7872.9	3771.3	1864.5	1648.2	1801.0	2046.7	2013.8	1883.3	1763.4	1730.4	1726.9
60°	8615.9	4012.3	1745.7	1516.5	1689.4	1949.2	1942.1	1823.3	1703.4	1680.0	1675.2
62.5°	9730.3	4410.8	1582.3	1384.8	1564.7	1783.4	1848.0	1742.2	1640.0	1638.8	1641.1
65°	11458.4	5010.3	1404.9	1269.6	1439.0	1643.4	1738.7	1658.7	1575.2	1598.8	1602.4
67.5°	13461.7	5507.6	1230.9	1156.8	1310.8	1510.6	1640.0	1575.2	1489.5	1550.6	1551.8
70°	14128.2	5063.2	1078.0	1045.1	1177.9	1382.5	1533.0	1483.6	1396.6	1457.7	1451.8
72°	13147.8	4087.5	979.2	960.4	1078.0	1276.7	1437.8	1397.8	1312.0	1353.1	1337.8
72.5°	12838.6	3897.0	954.6	939.3	1051.0	1249.7	1413.1	1376.6	1290.8	1326.1	1312.0
75°	11452.5	3384.5	820.6	824.0	916.9	1118.0	1274.4	1262.6	1174.4	1177.9	1173.2
77.5°	8306.7	2481.6	691.2	714.8	780.6	982.8	1134.4	1127.4	1031.0	1013.3	1009.8
80°	3854.7	1266.1	563.1	573.6	641.8	821.7	967.5	958.1	880.5	858.1	845.3
82.5°	1320.2	601.9	423.2	430.3	497.3	661.9	839.3	833.5	768.8	725.3	698.3
85°	471.5	299.8	296.2	289.2	355.0	520.8	731.2	699.5	604.3	514.9	512.5
87.5°	152.9	128.2	152.9	151.7	206.9	352.7	531.4	452.6	438.5	364.4	357.3
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)