

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: P318248

Luminaire Tested: **GAN-SA4C-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318248
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-SA4C-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22250 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

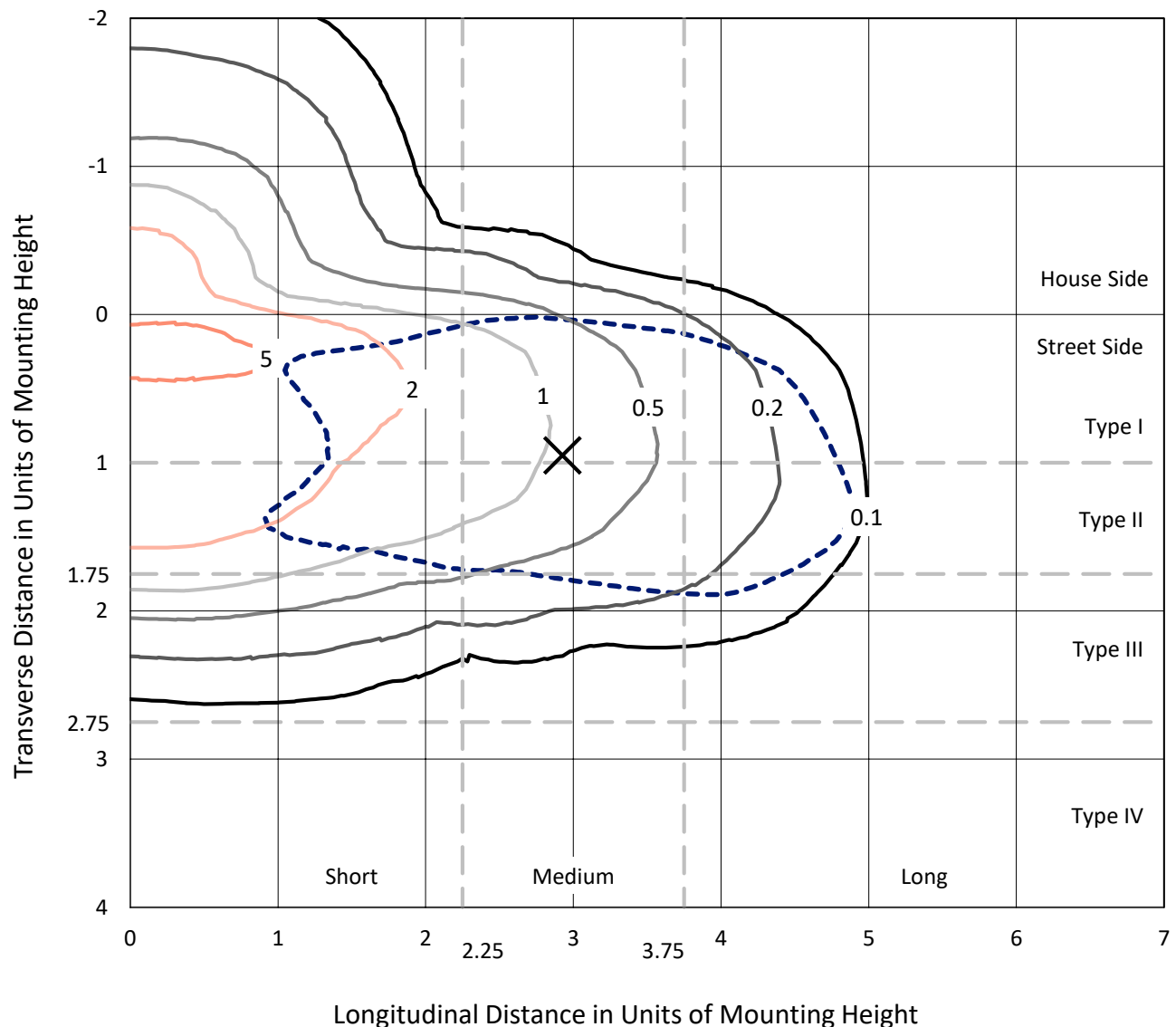
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

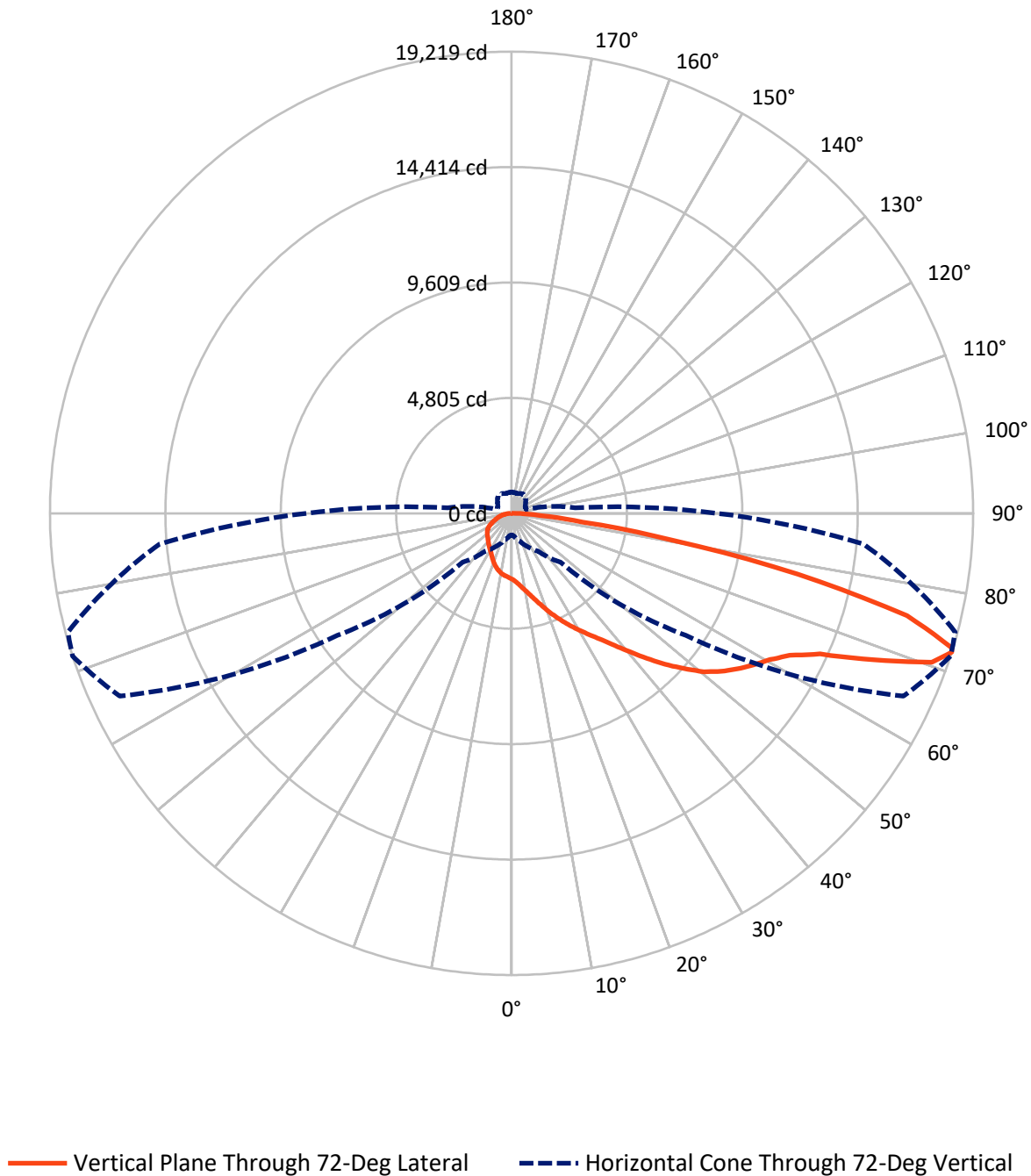
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	4127.5	0.0	4127.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	18122.5	0.0	18122.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	22250.0	0.0	22250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.2
10°-20°	886.4	4.0
20°-30°	1553.2	7.0
30°-40°	2302.9	10.4
40°-50°	3368.2	15.1
50°-60°	4634.6	20.8
60°-70°	5159.7	23.2
70°-80°	3496.2	15.7
80°-90°	574.6	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°	22250.0	100.0
0°-180°	22250.0	100.0

Coefficient of Utilization



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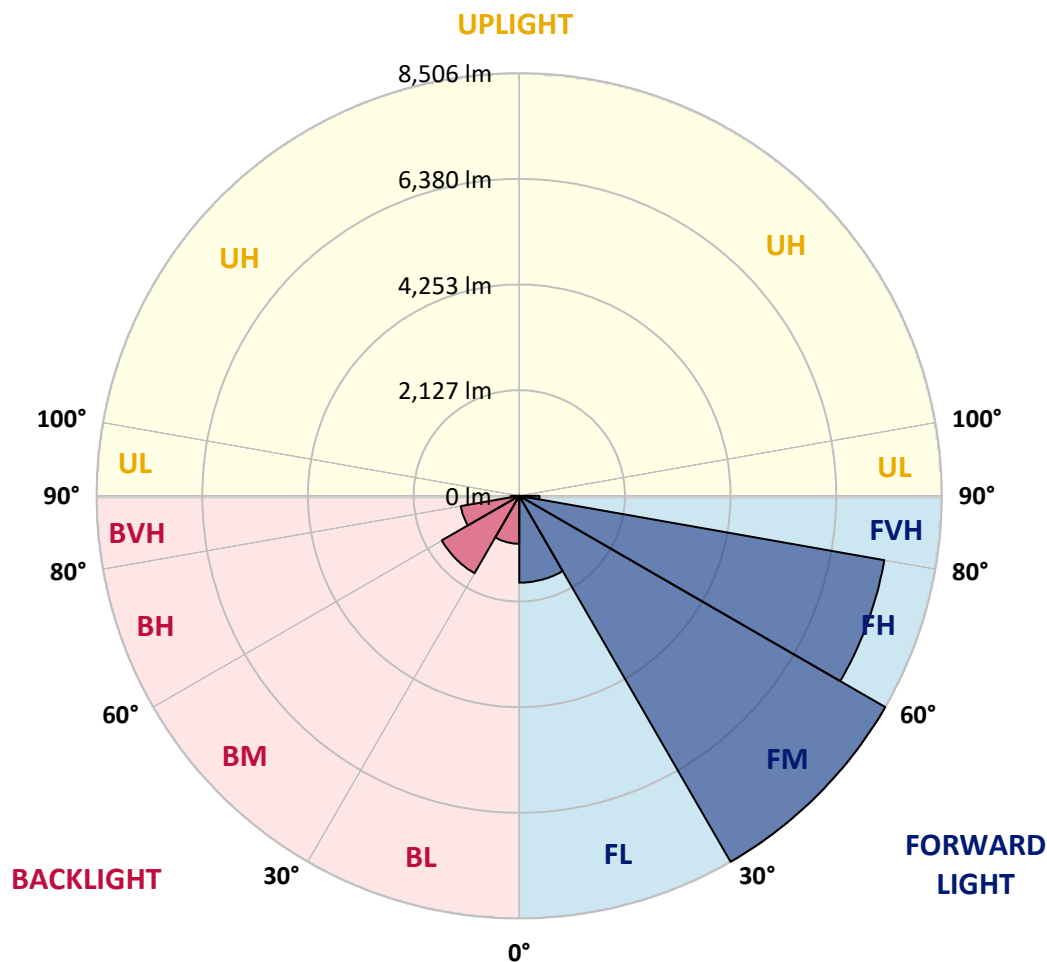
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1749.0	7.9			
FM	(30°-60°)	8506.5	38.2			
FH	(60°-80°)	7461.7	33.5			G3/7500
FVH	(80°-90°)	405.3	1.8			G3/500
BL	(0°-30°)	964.9	4.3	B2/1000		
BM	(30°-60°)	1799.2	8.1	B2/2500		
BH	(60°-80°)	1194.1	5.4	B3/2500		G3/2500
BVH	(80°-90°)	169.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3
2.5°	3023.9	3019.3	3003.2	3003.2	2972.5	2946.5	2897.4	2864.5	2825.4	2811.6	2765.7
5°	3316.5	3318.0	3298.1	3284.3	3239.1	3184.0	3100.5	3024.6	2948.8	2918.1	2823.9
7.5°	3562.4	3559.4	3554.0	3542.5	3500.4	3443.7	3331.1	3218.5	3106.6	3060.6	2898.2
10°	3720.3	3727.2	3731.7	3737.1	3719.5	3678.9	3572.4	3435.3	3288.9	3226.1	2987.1
12.5°	3799.9	3812.2	3833.6	3870.4	3899.5	3894.9	3817.6	3672.0	3498.1	3419.2	3098.2
15°	3846.7	3862.8	3896.5	3962.3	4044.3	4091.1	4070.4	3938.6	3744.8	3647.5	3233.8
17.5°	3875.8	3888.8	3940.9	4029.0	4150.8	4274.9	4329.3	4219.0	4023.6	3912.6	3389.3
20°	3895.7	3905.7	3970.8	4074.2	4232.0	4429.7	4581.4	4553.8	4330.9	4186.8	3551.7
22.5°	3940.1	3948.6	4010.6	4114.8	4289.5	4544.6	4824.2	4865.6	4654.9	4491.7	3725.6
25°	4064.2	4064.2	4116.3	4189.1	4353.1	4644.2	5029.5	5212.6	4985.9	4795.9	3886.5
27.5°	4301.0	4298.7	4317.8	4343.1	4467.2	4745.3	5212.6	5519.1	5329.1	5121.5	4042.8
30°	4581.4	4596.7	4599.0	4586.7	4645.0	4871.7	5382.0	5842.4	5674.6	5450.9	4202.9
32.5°	4942.2	4952.2	4940.7	4900.1	4891.6	5051.0	5548.2	6181.0	6048.5	5794.9	4349.2
35°	5400.3	5381.2	5345.2	5262.4	5183.5	5290.8	5738.2	6519.6	6468.3	6210.9	4550.7
37.5°	5891.4	5892.2	5847.8	5660.1	5551.3	5597.2	6000.2	6903.5	6976.2	6705.8	4808.9
40°	6285.2	6305.9	6333.5	6086.8	5945.8	6009.4	6333.5	7348.6	7576.9	7292.7	5145.2
42.5°	6560.2	6584.0	6662.1	6507.4	6361.1	6479.0	6725.7	7823.6	8251.1	7969.9	5539.0
45°	6851.4	6864.4	6919.6	6852.9	6759.4	7025.3	7167.8	8315.4	8964.3	8691.6	5979.5
47.5°	7157.8	7171.6	7228.3	7183.9	7134.8	7535.5	7629.0	8778.9	9647.7	9484.5	6449.9
50°	7536.3	7545.5	7599.1	7518.7	7534.0	7920.1	8041.1	9204.1	10364.0	10197.0	6921.9
52.5°	8052.6	8054.9	8129.3	8056.5	7984.5	8202.0	8395.9	9604.8	10925.6	10846.7	7393.8
55°	8457.1	8481.7	8725.3	8710.0	8668.6	8457.9	8692.3	9986.3	11426.6	11464.2	7894.8
57.5°	8199.0	8294.7	8788.1	9135.9	9474.5	9094.6	9093.0	10416.1	11892.4	12070.1	8445.7
60°	7180.8	7311.0	8038.1	8809.6	9869.1	10202.4	9925.0	10940.9	12362.8	12670.8	9135.9
62.5°	5128.4	5342.9	6328.1	7560.0	9328.2	10936.3	11618.1	11773.7	13002.5	13366.4	10033.0
65°	2592.5	2755.0	3580.8	5064.8	7452.8	10456.7	13458.3	13597.0	14114.1	14437.4	11414.4
67.5°	1575.1	1636.4	2039.4	2817.0	4569.1	8145.3	14059.0	16636.2	16265.4	16437.0	13384.0
70°	1160.7	1205.9	1457.2	1870.9	2627.8	4779.8	12215.7	18805.1	18561.4	18542.3	14839.7
72°	904.0	937.0	1159.1	1511.5	1921.4	2867.6	8854.0	18004.5	19218.8	19122.2	14706.4
72.5°	857.3	886.4	1088.7	1422.7	1815.7	2599.4	7960.7	17464.4	19171.3	19127.6	14534.0
75°	674.9	695.6	806.0	1100.1	1421.1	1474.8	4362.3	13534.2	17007.0	17714.1	13072.2
77.5°	558.5	561.6	619.8	800.6	1107.8	1042.7	2142.8	9390.3	12178.2	12955.8	9260.0
80°	455.1	458.9	486.5	561.6	838.1	771.5	1017.4	5399.6	6818.4	6826.9	4403.6
82.5°	362.4	363.1	393.8	410.6	602.2	551.6	583.0	2535.1	2979.4	2866.0	1582.8
85°	255.1	249.8	384.6	337.1	393.8	353.9	321.8	1003.6	1231.9	1178.3	495.7
87.5°	85.0	88.1	170.8	218.3	229.8	200.7	143.3	384.6	465.0	461.2	157.1
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°	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3	2737.3
2.5°	2751.1	2726.6	2690.6	2650.8	2619.3	2587.2	2563.4	2551.2	2537.4	2525.9	2539.7
5°	2780.2	2734.3	2657.7	2582.6	2527.4	2478.4	2443.1	2424.8	2407.9	2396.4	2397.9
7.5°	2827.7	2753.4	2624.7	2515.2	2438.5	2385.7	2349.7	2337.4	2326.7	2323.6	2327.5
10°	2878.3	2768.7	2581.0	2435.5	2348.1	2304.5	2288.4	2296.8	2304.5	2311.4	2319.0
12.5°	2935.8	2782.5	2517.5	2342.0	2267.7	2250.8	2266.9	2303.7	2330.5	2346.6	2356.6
15°	3010.8	2794.8	2443.9	2248.5	2198.8	2217.9	2272.3	2335.9	2382.6	2412.5	2417.1
17.5°	3079.8	2794.0	2349.7	2154.3	2142.8	2198.8	2280.7	2370.4	2433.2	2475.3	2483.7
20°	3151.0	2773.3	2240.1	2062.4	2086.1	2178.1	2284.6	2392.6	2468.4	2517.5	2528.9
22.5°	3217.7	2737.3	2119.8	1978.9	2038.6	2150.5	2270.0	2379.6	2455.4	2495.2	2507.5
25°	3262.9	2674.5	1998.0	1908.4	1996.5	2116.8	2222.5	2310.6	2367.3	2387.2	2390.3
27.5°	3285.9	2592.5	1883.1	1847.1	1952.8	2061.6	2134.4	2178.1	2194.2	2192.6	2189.6
30°	3288.9	2484.5	1784.3	1797.3	1902.3	1980.4	2014.9	2006.5	1985.8	1950.5	1953.6
32.5°	3279.0	2362.7	1701.5	1749.8	1837.9	1881.6	1883.1	1842.5	1787.3	1731.4	1716.1
35°	3282.0	2243.2	1628.8	1696.2	1759.8	1778.9	1761.3	1701.5	1626.5	1554.4	1539.1
37.5°	3315.7	2139.0	1565.9	1634.1	1673.2	1677.8	1652.5	1589.7	1534.5	1464.0	1457.9
40°	3396.2	2064.7	1506.2	1564.4	1586.6	1588.9	1552.9	1508.5	1513.1	1475.5	1474.8
42.5°	3541.0	2032.5	1453.3	1491.6	1505.4	1510.0	1482.4	1454.1	1493.9	1469.4	1461.0
45°	3727.9	2040.2	1408.9	1420.4	1445.7	1467.1	1450.3	1415.8	1431.1	1324.6	1289.4
47.5°	3944.0	2089.2	1373.6	1359.1	1402.8	1443.4	1417.3	1365.2	1310.8	1205.1	1185.2
50°	4196.8	2165.0	1341.5	1298.6	1356.0	1411.2	1385.1	1310.8	1228.8	1177.5	1170.6
52.5°	4460.3	2257.7	1309.3	1231.9	1297.0	1386.7	1373.6	1298.6	1197.4	1146.9	1137.7
55°	4759.1	2351.2	1268.7	1154.5	1233.4	1375.2	1368.3	1254.1	1173.7	1145.3	1138.4
57.5°	5130.7	2457.7	1215.1	1074.1	1173.7	1333.8	1312.4	1227.3	1149.2	1127.7	1125.4
60°	5614.9	2614.8	1137.7	988.3	1100.9	1270.2	1265.6	1188.2	1110.1	1094.8	1091.7
62.5°	6341.1	2874.5	1031.2	902.5	1019.7	1162.2	1204.3	1135.4	1068.7	1068.0	1069.5
65°	7467.3	3265.2	915.5	827.4	937.7	1071.0	1133.1	1081.0	1026.6	1041.9	1044.2
67.5°	8772.8	3589.3	802.1	753.9	854.2	984.5	1068.7	1026.6	970.7	1010.5	1011.3
70°	9207.2	3299.7	702.5	681.1	767.6	901.0	999.0	966.8	910.1	950.0	946.2
72°	8568.2	2663.8	638.2	625.9	702.5	832.0	937.0	910.9	855.0	881.8	871.8
72.5°	8366.7	2539.7	622.1	612.1	684.9	814.4	920.9	897.1	841.2	864.2	855.0
75°	7463.5	2205.6	534.7	537.0	597.6	728.6	830.5	822.8	765.3	767.6	764.6
77.5°	5413.4	1617.3	450.5	465.8	508.7	640.5	739.3	734.7	671.9	660.4	658.1
80°	2512.1	825.1	367.0	373.9	418.3	535.5	630.5	624.4	573.8	559.3	550.8
82.5°	860.3	392.3	275.8	280.4	324.1	431.3	547.0	543.2	501.0	472.7	455.1
85°	307.2	195.4	193.1	188.5	231.4	339.4	476.5	455.8	393.8	335.6	334.0
87.5°	99.6	83.5	99.6	98.8	134.8	229.8	346.3	295.0	285.8	237.5	232.9
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)