

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: P321128

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23261 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

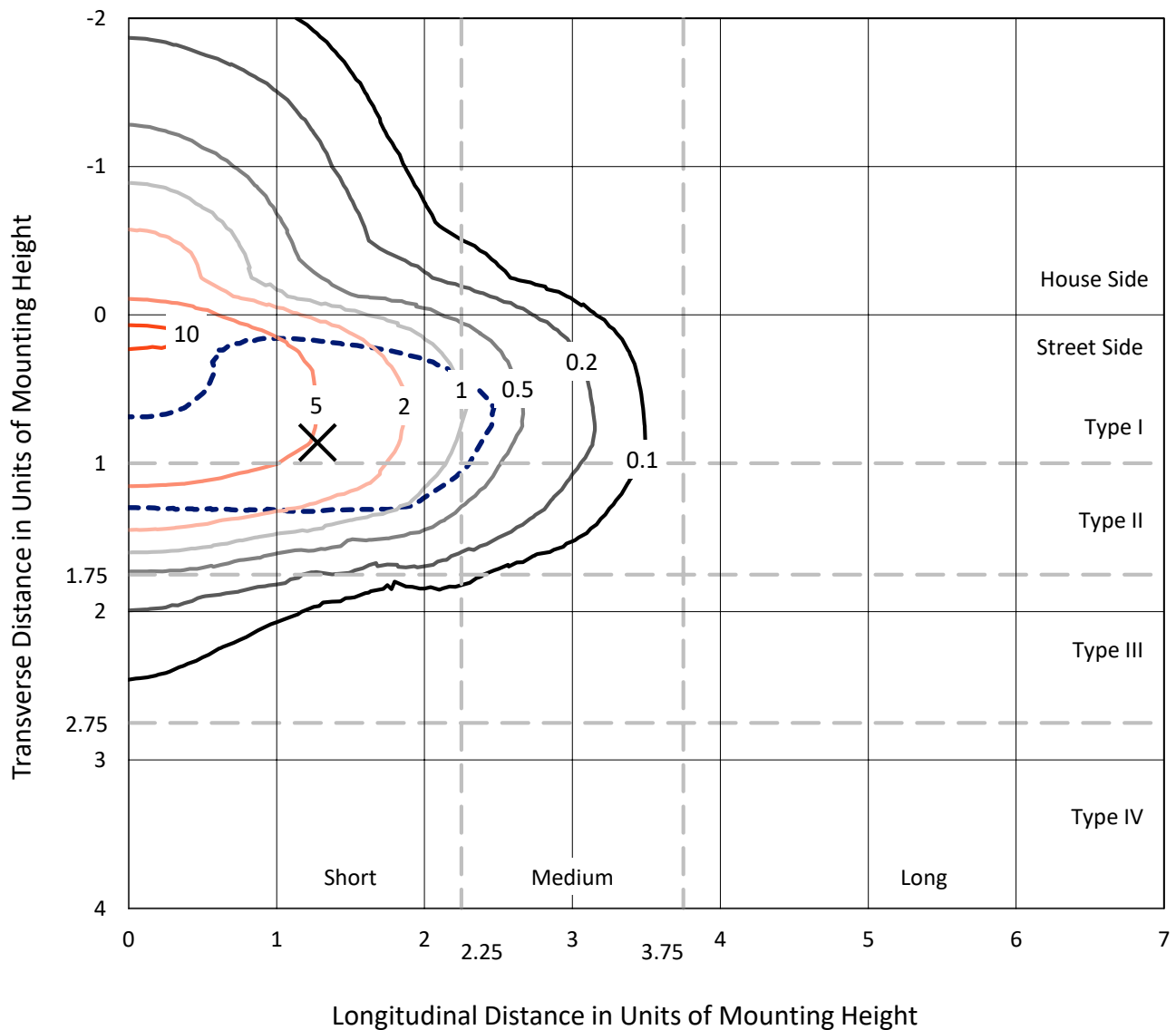
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

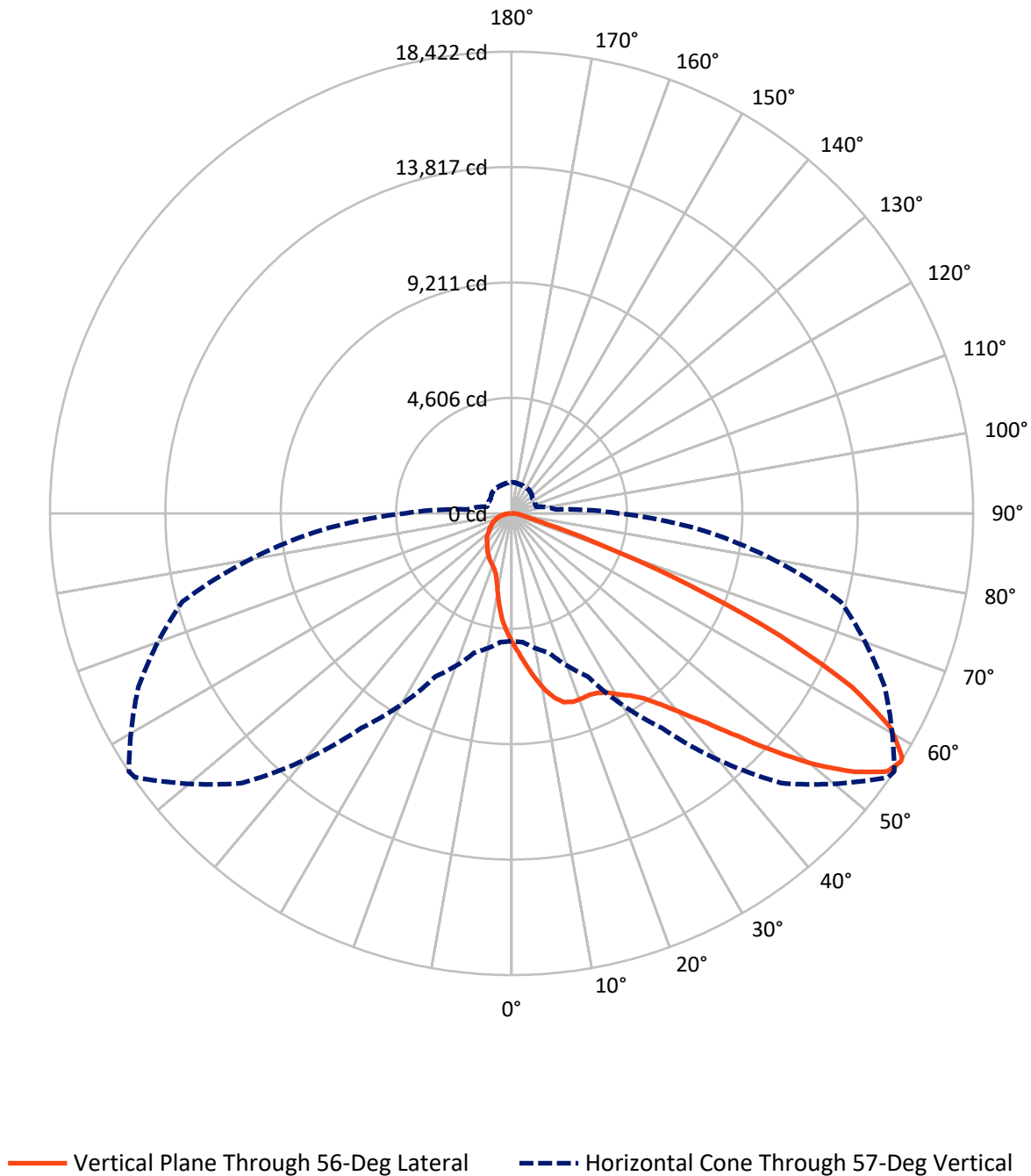
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4009.7	0.0	4009.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	19251.3	0.0	19251.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	23261.0	0.0	23261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.8	2.1
10°-20°	1393.4	6.0
20°-30°	2269.6	9.8
30°-40°	3392.7	14.6
40°-50°	5146.1	22.1
50°-60°	5767.8	24.8
60°-70°	3406.7	14.6
70°-80°	1116.2	4.8
80°-90°	275.8	1.2
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°	23261.0	100.0
0°-180°	23261.0	100.0

Coefficient of Utilization



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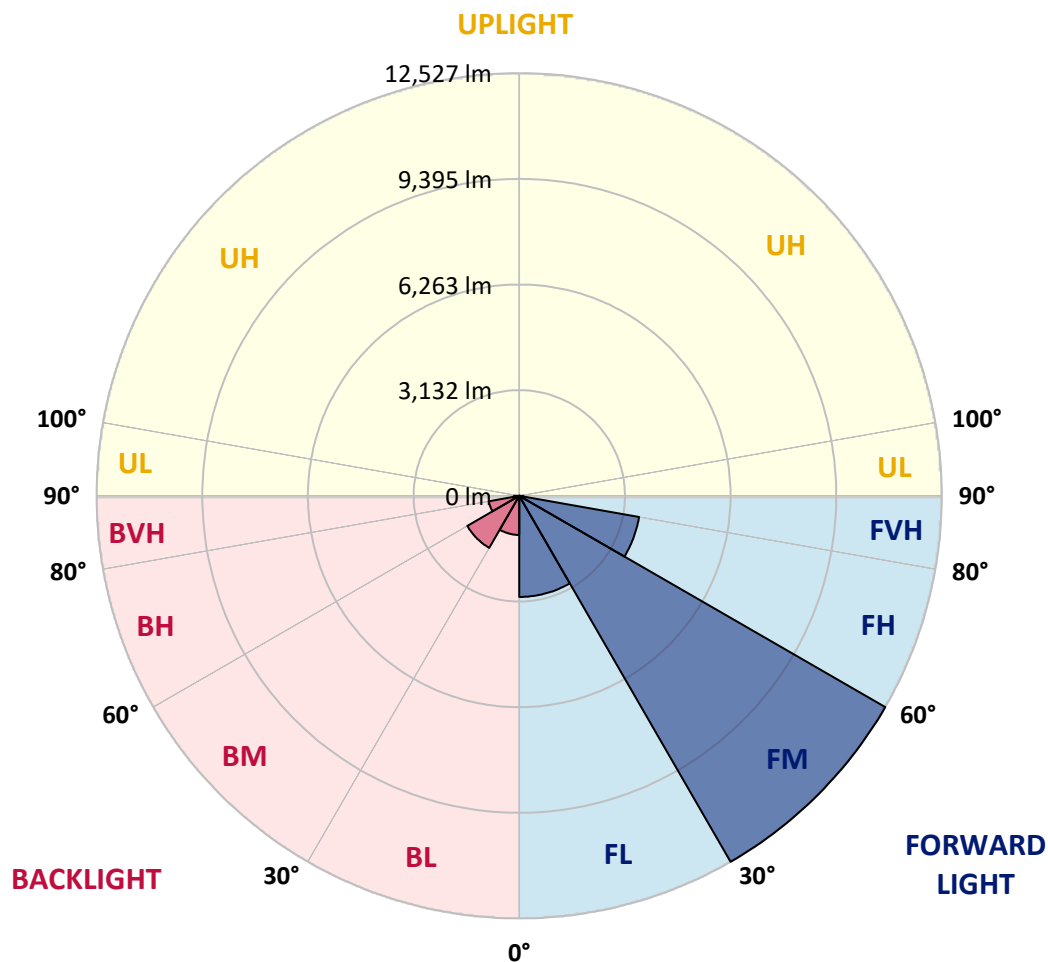
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2996.4	12.9			
FM	(30°-60°)	12526.8	53.9			
FH	(60°-80°)	3606.7	15.5			G2/5000
FVH	(80°-90°)	121.4	0.5			G2/225
BL	(0°-30°)	1159.4	5.0	B3/2500		
BM	(30°-60°)	1779.8	7.7	B2/2500		
BH	(60°-80°)	916.2	3.9	B2/1000		G2/1000
BVH	(80°-90°)	154.3	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3
2.5°	5924.3	5978.7	5954.7	5871.6	5807.6	5717.3	5616.6	5586.2	5479.9	5360.8	5217.7
5°	6862.0	6834.8	6795.7	6666.2	6529.5	6370.4	6117.8	6077.8	5841.2	5571.8	5287.2
7.5°	7396.0	7393.6	7370.4	7294.5	7169.8	6962.0	6657.4	6610.2	6252.9	5819.6	5378.3
10°	7318.5	7312.9	7351.3	7430.4	7468.0	7424.8	7168.2	7121.0	6682.2	6093.8	5483.9
12.5°	6878.0	6881.2	6942.8	7109.0	7335.3	7607.1	7565.5	7542.3	7127.4	6404.0	5611.8
15°	6535.1	6542.3	6591.0	6735.7	7002.7	7495.9	7806.9	7814.9	7558.3	6746.1	5761.3
17.5°	6384.8	6400.0	6422.4	6523.9	6768.5	7274.5	7864.5	7907.6	7935.6	7101.0	5905.1
20°	6432.8	6447.1	6453.5	6518.3	6718.9	7140.2	7824.5	7902.0	8225.0	7435.2	6049.0
22.5°	6647.8	6656.6	6660.6	6677.4	6833.2	7178.6	7798.1	7879.7	8434.4	7735.0	6157.8
25°	7004.3	6997.9	6972.3	6950.8	7055.5	7330.5	7858.9	7936.4	8604.7	8006.8	6228.9
27.5°	7431.2	7423.2	7373.6	7314.5	7374.4	7567.1	8033.9	8095.5	8757.4	8261.0	6264.9
30°	7943.6	7922.8	7829.3	7759.0	7782.1	7922.0	8322.5	8378.5	8993.2	8549.6	6300.1
32.5°	8536.0	8513.6	8378.5	8261.8	8261.8	8378.5	8619.9	8666.3	9193.1	8875.7	6356.8
35°	9277.8	9249.8	9074.0	8878.1	8822.9	8882.1	9025.2	9058.0	9552.8	9286.6	6459.9
37.5°	10152.3	10114.8	9886.9	9624.7	9504.0	9500.8	9604.0	9671.1	10127.6	9826.2	6635.0
40°	11029.3	11002.9	10803.9	10597.6	10361.0	10285.0	10444.1	10464.9	10879.0	10496.1	6858.8
42.5°	11707.2	11702.4	11665.6	11692.8	11450.6	11297.1	11421.8	11438.6	11796.7	11221.1	7097.1
45°	12065.3	12073.3	12251.6	12646.5	12736.0	12624.1	12685.6	12690.4	12845.5	11952.6	7315.3
47.5°	11778.3	11819.9	12270.8	13154.1	13887.1	14258.9	14156.5	14215.7	13862.4	12580.9	7486.4
50°	10660.0	10711.1	11478.5	12927.9	14424.3	15840.9	15787.3	15773.7	14682.5	13041.4	7579.1
52.5°	9274.6	9314.6	9947.7	11751.9	14030.2	16715.4	17207.0	17136.7	15411.6	13385.9	7596.7
55°	7165.0	7227.4	7834.1	9404.9	12436.2	16381.3	18251.0	18187.9	16075.9	13566.6	7575.9
57°	5093.8	5159.3	5762.1	7177.8	10461.7	15224.5	18355.0	18422.1	16434.8	13597.0	7599.1
57.5°	4545.4	4612.5	5209.7	6584.6	9846.2	14806.4	18265.4	18377.3	16499.6	13592.2	7611.9
60°	2288.7	2314.3	2694.8	3675.6	6224.1	11970.2	17097.5	17386.1	16557.9	13357.1	7667.0
62.5°	1422.9	1404.5	1392.6	1693.1	3028.1	7938.0	14687.3	15242.9	15441.2	12788.0	7533.5
65°	1251.1	1216.7	1084.8	1060.8	1337.4	3855.5	11060.5	11751.9	13055.0	11891.0	7215.4
67.5°	1175.1	1141.5	992.9	903.3	904.1	1528.4	6866.8	7645.4	10169.9	10374.6	6464.7
70°	1096.8	1066.4	927.3	821.8	769.8	846.6	3159.2	3750.0	6629.4	8154.7	5403.1
72.5°	996.0	975.3	843.4	734.6	679.5	633.9	1209.5	1428.5	3837.9	5476.7	3752.4
75°	890.5	871.3	758.6	654.7	587.6	498.8	681.1	733.8	1949.7	2801.9	1847.4
77.5°	774.6	763.4	674.7	578.8	525.2	413.3	482.0	507.6	836.2	1201.5	926.5
80°	616.3	637.9	590.0	515.6	466.0	331.0	341.3	358.1	486.8	586.8	526.0
82.5°	401.3	438.9	462.1	418.9	383.7	260.6	245.4	252.6	317.4	358.1	228.6
85°	167.1	187.9	303.8	274.2	255.0	190.3	164.7	167.9	196.7	203.8	93.5
87.5°	74.3	79.1	133.5	125.5	107.9	65.6	70.3	76.7	104.7	99.1	36.0
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°	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3	5159.3
2.5°	5164.1	5097.0	4981.8	4854.7	4750.8	4667.7	4583.7	4526.2	4459.0	4423.1	4404.7
5°	5168.1	5036.2	4794.0	4545.4	4323.1	4120.1	3926.6	3778.0	3638.9	3563.7	3542.9
7.5°	5184.9	4986.6	4594.9	4185.6	3790.7	3430.2	3152.0	2977.8	2852.3	2796.3	2780.3
10°	5198.5	4928.3	4348.7	3742.8	3205.6	2840.3	2624.4	2526.9	2483.7	2476.5	2469.3
12.5°	5230.5	4868.3	4089.7	3280.7	2750.7	2498.1	2423.0	2416.6	2428.6	2446.2	2446.2
15°	5280.8	4809.2	3793.9	2884.2	2461.3	2372.6	2387.8	2423.0	2455.7	2482.9	2486.9
17.5°	5317.6	4736.4	3475.8	2566.9	2307.1	2331.0	2385.4	2435.0	2468.5	2494.9	2497.3
20°	5344.0	4623.7	3136.0	2324.6	2218.3	2292.7	2360.6	2404.6	2427.8	2454.2	2458.1
22.5°	5330.4	4472.6	2834.7	2151.2	2146.4	2236.7	2301.5	2354.2	2336.6	2311.1	2327.8
25°	5264.8	4264.8	2524.5	2021.7	2070.4	2161.6	2241.5	2206.3	2147.2	2136.0	2142.4
27.5°	5148.1	3999.4	2237.5	1901.8	1982.5	2092.0	2087.2	2052.1	2031.3	2016.9	2025.7
30°	5022.6	3711.6	1986.5	1797.0	1885.0	1975.3	1956.9	1956.1	1935.3	1912.2	1923.4
32.5°	4898.7	3422.2	1787.5	1710.7	1811.4	1823.4	1863.4	1875.4	1834.6	1785.9	1782.7
35°	4790.8	3148.8	1636.4	1632.4	1722.7	1724.3	1782.7	1765.9	1664.3	1614.0	1614.0
37.5°	4710.0	2876.2	1521.3	1562.0	1606.0	1647.6	1677.1	1607.6	1590.8	1562.8	1562.0
40°	4674.9	2636.4	1449.3	1508.5	1523.7	1576.4	1500.5	1527.6	1535.6	1521.3	1521.3
42.5°	4638.1	2427.8	1387.0	1467.7	1465.3	1458.1	1419.7	1454.9	1486.9	1487.7	1485.3
45°	4601.3	2247.9	1331.8	1380.6	1414.1	1336.6	1343.8	1381.4	1426.1	1442.1	1442.1
47.5°	4560.6	2105.6	1281.4	1288.6	1340.6	1288.6	1283.0	1311.8	1364.6	1390.2	1395.7
50°	4471.0	1977.7	1223.9	1207.9	1222.3	1239.9	1244.7	1258.3	1316.6	1357.4	1367.0
52.5°	4347.1	1863.4	1150.3	1133.5	1133.5	1199.9	1222.3	1226.3	1275.8	1324.6	1334.2
55°	4244.0	1790.7	1074.4	1071.2	1068.0	1157.5	1195.9	1202.3	1236.7	1275.0	1279.8
57°	4251.2	1785.1	1016.0	1019.2	1018.4	1114.4	1171.1	1184.7	1202.3	1235.1	1240.7
57.5°	4255.2	1789.1	1003.2	1004.8	1004.0	1102.4	1163.9	1179.1	1192.7	1227.1	1232.7
60°	4315.1	1799.4	951.3	933.7	937.7	1038.4	1123.2	1142.3	1151.1	1196.7	1203.9
62.5°	4226.4	1753.1	909.7	867.3	867.3	971.3	1066.4	1096.8	1110.4	1171.9	1183.9
65°	3969.0	1622.8	861.0	792.2	800.2	904.1	998.4	1048.0	1068.8	1145.5	1158.3
67.5°	3571.7	1471.7	809.0	725.1	733.0	833.8	928.1	981.7	1014.4	1116.8	1127.2
70°	3054.5	1287.0	738.6	653.9	663.5	757.0	845.0	905.7	954.5	1089.6	1092.8
72.5°	2251.9	1055.2	640.3	575.6	586.0	667.5	761.0	831.4	896.9	1021.6	1020.0
75°	1339.0	825.0	531.6	496.4	503.6	579.6	685.1	770.6	868.9	995.2	1010.4
77.5°	812.2	621.1	433.3	415.7	424.5	502.0	630.7	721.9	857.0	938.5	933.7
80°	490.8	443.7	346.1	334.9	343.7	429.3	583.6	685.1	749.0	801.8	801.8
82.5°	256.6	271.0	254.2	245.4	257.4	348.5	530.8	597.9	661.9	568.4	530.8
85°	104.7	141.5	154.3	153.5	160.7	241.4	458.1	511.6	426.9	405.3	414.9
87.5°	35.2	60.0	75.1	64.8	67.9	151.9	317.4	247.0	293.4	204.6	194.3
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)