

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: P318227

Luminaire Tested: **GAN-SA3A-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318227
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-SA3A-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11094 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

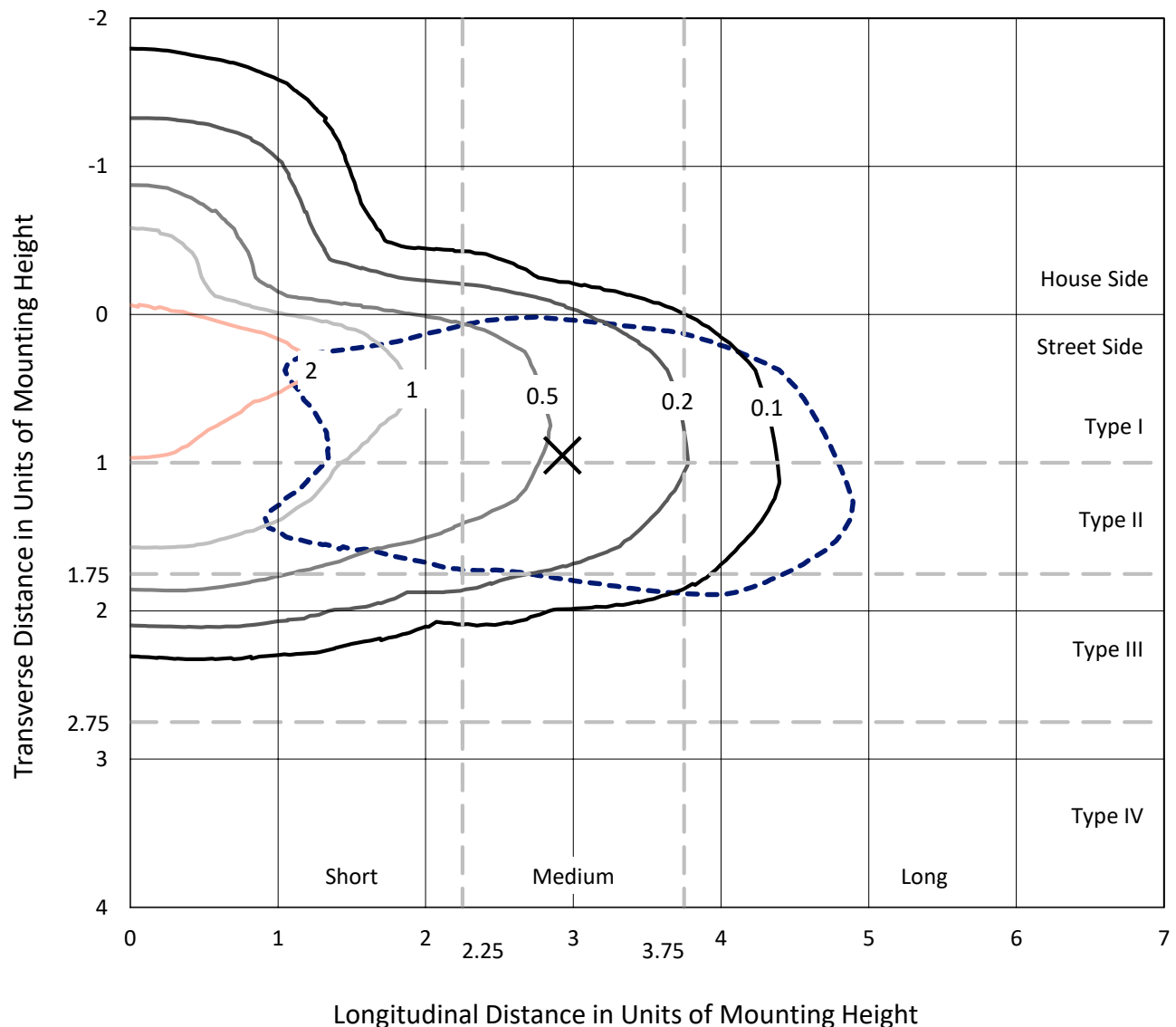
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

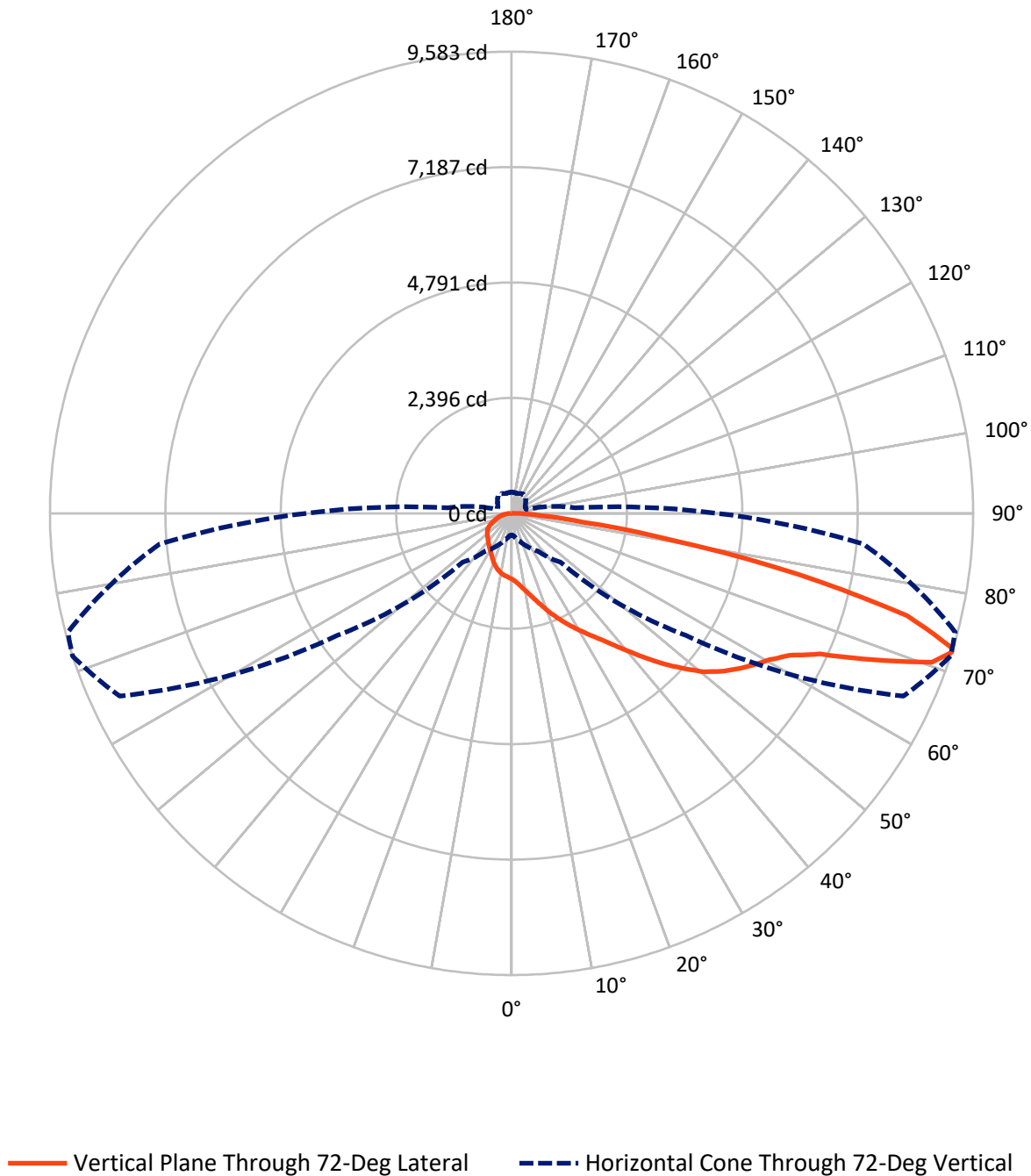
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	2058.0	0.0	2058.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9036.0	0.0	9036.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	11094.0	0.0	11094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.2
10°-20°	441.9	4.0
20°-30°	774.4	7.0
30°-40°	1148.2	10.4
40°-50°	1679.4	15.1
50°-60°	2310.8	20.8
60°-70°	2572.6	23.2
70°-80°	1743.2	15.7
80°-90°	286.5	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°	11094.0	100.0
0°-180°	11094.0	100.0

Coefficient of Utilization



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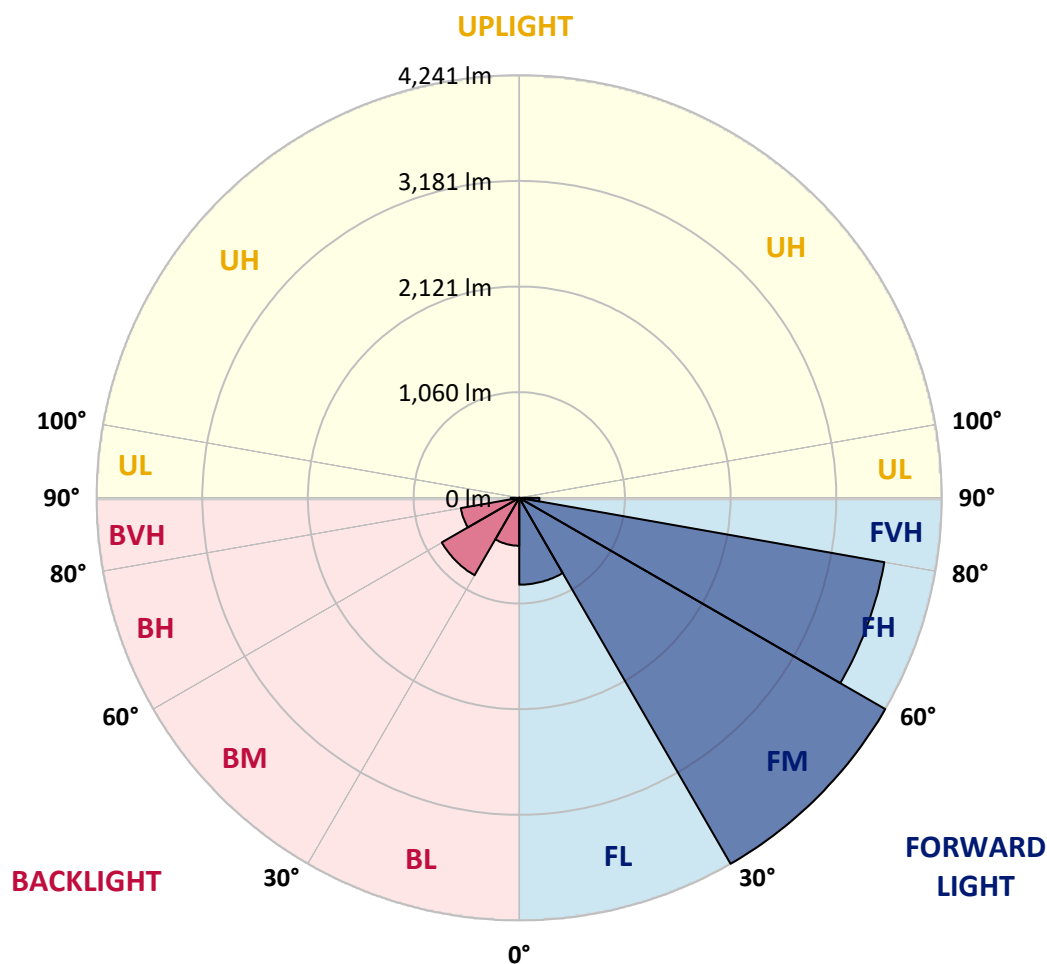
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	872.1	7.9			
FM	(30°-60°)	4241.4	38.2			
FH	(60°-80°)	3720.5	33.5			G2/5000
FVH	(80°-90°)	202.1	1.8			G2/225
BL	(0°-30°)	481.1	4.3	B1/500		
BM	(30°-60°)	897.1	8.1	B1/1000		
BH	(60°-80°)	595.4	5.4	B2/1000		G2/1000
BVH	(80°-90°)	84.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9
2.5°	1507.7	1505.4	1497.4	1497.4	1482.1	1469.1	1444.7	1428.3	1408.8	1401.9	1379.0
5°	1653.6	1654.4	1644.5	1637.6	1615.1	1587.6	1545.9	1508.1	1470.3	1455.0	1408.0
7.5°	1776.3	1774.7	1772.1	1766.3	1745.3	1717.0	1660.9	1604.7	1549.0	1526.1	1445.1
10°	1854.9	1858.4	1860.7	1863.3	1854.6	1834.3	1781.2	1712.8	1639.9	1608.6	1489.4
12.5°	1894.7	1900.8	1911.5	1929.8	1944.3	1942.0	1903.5	1830.9	1744.2	1704.8	1544.8
15°	1918.0	1926.0	1942.8	1975.7	2016.5	2039.8	2029.5	1963.8	1867.2	1818.7	1612.4
17.5°	1932.5	1939.0	1965.0	2008.9	2069.6	2131.5	2158.6	2103.6	2006.2	1950.8	1689.9
20°	1942.4	1947.4	1979.9	2031.4	2110.1	2208.7	2284.3	2270.6	2159.4	2087.6	1770.9
22.5°	1964.6	1968.8	1999.7	2051.7	2138.8	2266.0	2405.4	2426.0	2321.0	2239.6	1857.6
25°	2026.5	2026.5	2052.4	2088.7	2170.5	2315.6	2507.8	2599.1	2486.0	2391.3	1937.8
27.5°	2144.5	2143.3	2152.9	2165.5	2227.4	2366.0	2599.1	2751.9	2657.1	2553.6	2015.8
30°	2284.3	2291.9	2293.1	2287.0	2316.0	2429.1	2683.5	2913.1	2829.4	2717.9	2095.6
32.5°	2464.2	2469.2	2463.5	2443.2	2439.0	2518.5	2766.4	3081.9	3015.8	2889.4	2168.6
35°	2692.6	2683.1	2665.1	2623.9	2584.5	2638.0	2861.1	3250.7	3225.1	3096.8	2269.0
37.5°	2937.5	2937.9	2915.7	2822.1	2767.9	2790.8	2991.7	3442.1	3478.4	3343.6	2397.8
40°	3133.8	3144.2	3157.9	3034.9	2964.6	2996.3	3157.9	3664.1	3777.9	3636.2	2565.4
42.5°	3271.0	3282.8	3321.8	3244.6	3171.7	3230.5	3353.5	3900.9	4114.0	3973.8	2761.8
45°	3416.1	3422.6	3450.1	3416.9	3370.3	3502.9	3573.9	4146.1	4469.7	4333.7	2981.4
47.5°	3568.9	3575.8	3604.1	3581.9	3557.5	3757.3	3803.9	4377.2	4810.4	4729.0	3216.0
50°	3757.6	3762.2	3789.0	3748.9	3756.5	3949.0	4009.4	4589.2	5167.6	5084.3	3451.3
52.5°	4015.1	4016.2	4053.3	4017.0	3981.1	4089.6	4186.2	4789.0	5447.6	5408.2	3686.6
55°	4216.8	4229.0	4350.5	4342.8	4322.2	4217.2	4334.1	4979.2	5697.4	5716.1	3936.4
57.5°	4088.1	4135.8	4381.8	4555.2	4724.1	4534.6	4533.8	5193.5	5929.6	6018.3	4211.1
60°	3580.4	3645.3	4007.8	4392.5	4920.8	5087.0	4948.7	5455.2	6164.2	6317.7	4555.2
62.5°	2557.0	2664.0	3155.2	3769.5	4651.1	5452.9	5792.9	5870.4	6483.1	6664.6	5002.5
65°	1292.7	1373.6	1785.4	2525.3	3716.0	5213.8	6710.4	6779.6	7037.4	7198.6	5691.3
67.5°	785.4	815.9	1016.9	1404.6	2278.2	4061.3	7009.9	8294.9	8110.0	8195.6	6673.4
70°	578.7	601.3	726.5	932.8	1310.2	2383.2	6090.8	9376.3	9254.9	9245.3	7399.2
72°	450.7	467.2	578.0	753.7	958.0	1429.8	4414.7	8977.2	9582.6	9534.5	7332.7
72.5°	427.4	442.0	542.8	709.4	905.3	1296.1	3969.3	8707.9	9558.9	9537.2	7246.7
75°	336.5	346.8	401.9	548.5	708.6	735.3	2175.1	6748.2	8479.8	8832.4	6517.9
77.5°	278.5	280.0	309.0	399.2	552.4	519.9	1068.4	4682.1	6072.1	6459.8	4617.1
80°	226.9	228.8	242.6	280.0	417.9	384.7	507.3	2692.3	3399.7	3403.9	2195.7
82.5°	180.7	181.1	196.3	204.7	300.2	275.0	290.7	1264.0	1485.6	1429.0	789.2
85°	127.2	124.5	191.8	168.1	196.3	176.5	160.4	500.4	614.2	587.5	247.1
87.5°	42.4	43.9	85.2	108.9	114.6	100.1	71.4	191.8	231.9	230.0	78.3
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°	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9	1364.9
2.5°	1371.7	1359.5	1341.6	1321.7	1306.0	1290.0	1278.1	1272.0	1265.2	1259.4	1266.3
5°	1386.2	1363.3	1325.1	1287.7	1260.2	1235.7	1218.2	1209.0	1200.6	1194.9	1195.6
7.5°	1409.9	1372.9	1308.7	1254.1	1215.9	1189.5	1171.6	1165.5	1160.1	1158.6	1160.5
10°	1435.1	1380.5	1286.9	1214.3	1170.8	1149.0	1141.0	1145.2	1149.0	1152.5	1156.3
12.5°	1463.8	1387.4	1255.2	1167.7	1130.7	1122.3	1130.3	1148.6	1162.0	1170.0	1175.0
15°	1501.2	1393.5	1218.5	1121.1	1096.3	1105.9	1133.0	1164.7	1188.0	1202.9	1205.2
17.5°	1535.6	1393.1	1171.6	1074.2	1068.4	1096.3	1137.2	1181.9	1213.2	1234.2	1238.4
20°	1571.1	1382.8	1116.9	1028.3	1040.2	1086.0	1139.1	1193.0	1230.8	1255.2	1261.0
22.5°	1604.4	1364.9	1057.0	986.7	1016.5	1072.2	1131.8	1186.5	1224.3	1244.1	1250.3
25°	1626.9	1333.5	996.2	951.5	995.5	1055.4	1108.2	1152.1	1180.4	1190.3	1191.8
27.5°	1638.4	1292.7	938.9	921.0	973.7	1027.9	1064.2	1086.0	1094.0	1093.3	1091.7
30°	1639.9	1238.8	889.7	896.1	948.5	987.4	1004.6	1000.4	990.1	972.5	974.1
32.5°	1634.9	1178.1	848.4	872.5	916.4	938.2	938.9	918.7	891.2	863.3	855.7
35°	1636.4	1118.5	812.1	845.7	877.4	887.0	878.2	848.4	811.0	775.1	767.4
37.5°	1653.3	1066.5	780.8	814.8	834.3	836.6	824.0	792.6	765.1	730.0	726.9
40°	1693.4	1029.5	751.0	780.0	791.1	792.2	774.3	752.1	754.4	735.7	735.3
42.5°	1765.6	1013.4	724.6	743.7	750.6	752.9	739.2	725.0	744.9	732.7	728.5
45°	1858.8	1017.2	702.5	708.2	720.8	731.5	723.1	705.9	713.6	660.5	642.9
47.5°	1966.5	1041.7	684.9	677.7	699.4	719.7	706.7	680.7	653.6	600.9	590.9
50°	2092.5	1079.5	668.9	647.5	676.1	703.6	690.6	653.6	612.7	587.1	583.7
52.5°	2223.9	1125.7	652.8	614.2	646.7	691.4	684.9	647.5	597.1	571.8	567.3
55°	2372.9	1172.3	632.6	575.7	615.0	685.7	682.2	625.3	585.2	571.1	567.6
57.5°	2558.2	1225.4	605.8	535.6	585.2	665.0	654.3	611.9	573.0	562.3	561.1
60°	2799.6	1303.7	567.3	492.8	548.9	633.3	631.0	592.5	553.5	545.9	544.3
62.5°	3161.7	1433.2	514.2	450.0	508.4	579.5	600.5	566.1	532.9	532.5	533.3
65°	3723.3	1628.0	456.5	412.5	467.6	534.0	565.0	539.0	511.9	519.5	520.7
67.5°	4374.2	1789.6	399.9	375.9	425.9	490.9	532.9	511.9	484.0	503.8	504.2
70°	4590.8	1645.2	350.3	339.6	382.8	449.2	498.1	482.1	453.8	473.7	471.8
72°	4272.2	1328.2	318.2	312.1	350.3	414.8	467.2	454.2	426.3	439.7	434.7
72.5°	4171.7	1266.3	310.2	305.2	341.5	406.1	459.2	447.3	419.4	430.9	426.3
75°	3721.3	1099.8	266.6	267.8	298.0	363.3	414.1	410.3	381.6	382.8	381.2
77.5°	2699.1	806.4	224.6	232.3	253.6	319.3	368.6	366.3	335.0	329.3	328.1
80°	1252.5	411.4	183.0	186.4	208.6	267.0	314.4	311.3	286.1	278.9	274.7
82.5°	429.0	195.6	137.5	139.8	161.6	215.1	272.7	270.8	249.8	235.7	226.9
85°	153.2	97.4	96.3	94.0	115.4	169.2	237.6	227.3	196.3	167.3	166.5
87.5°	49.7	41.6	49.7	49.3	67.2	114.6	172.7	147.1	142.5	118.4	116.1
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)