

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: P317996

Luminaire Tested: **GAN-SA2B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317996
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-SA2B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9594 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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



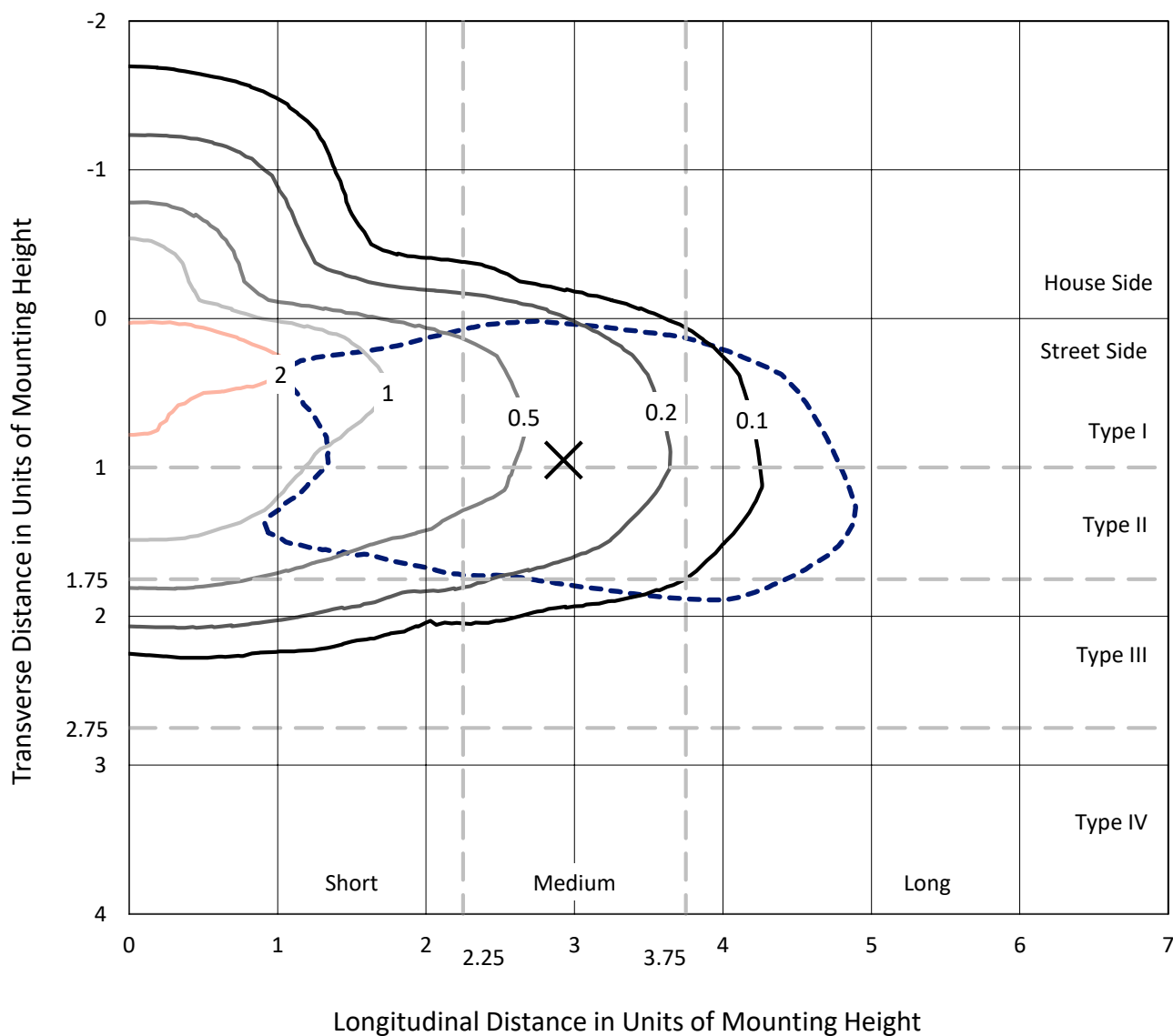
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

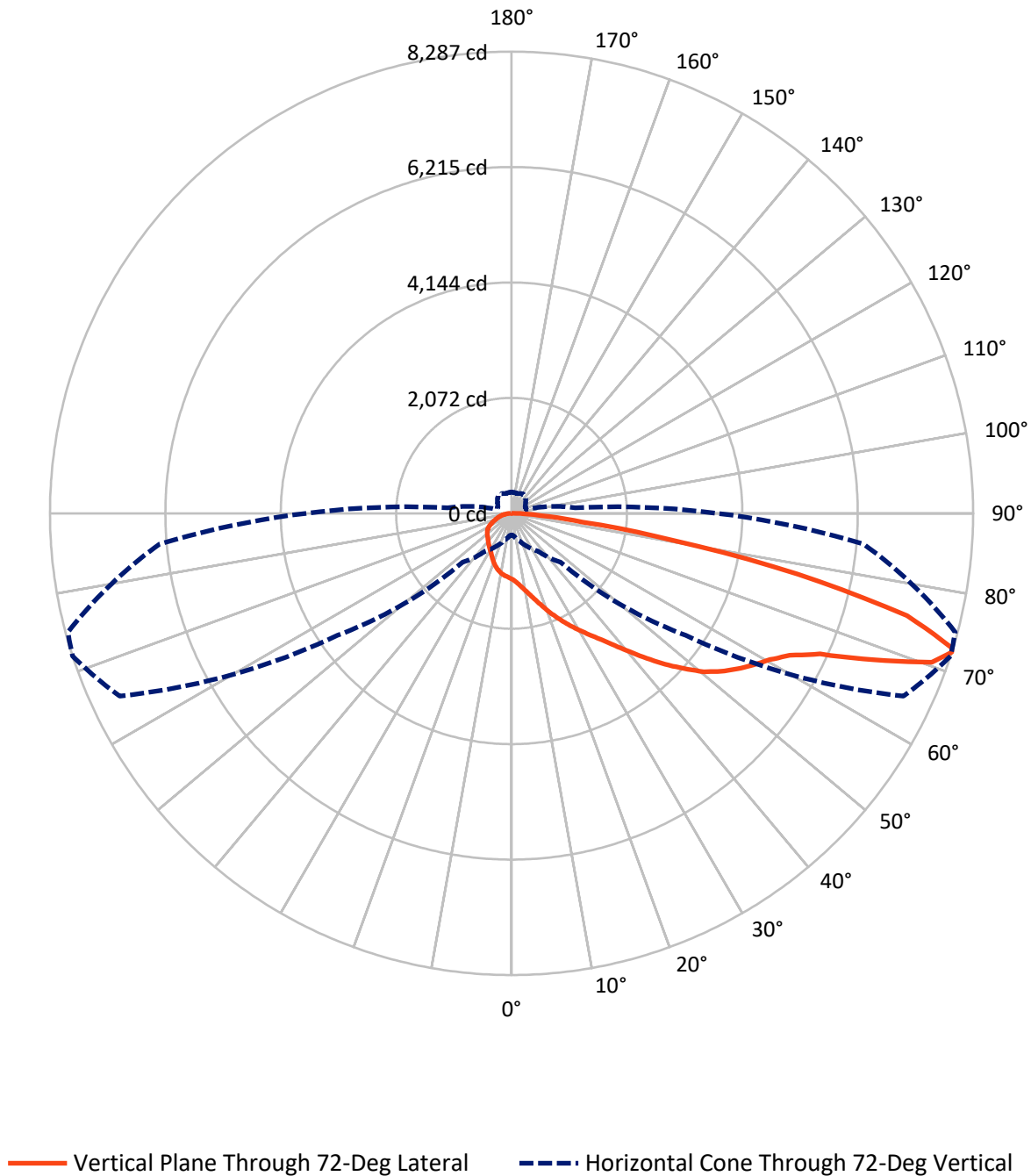
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	1779.8	0.0	1779.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7814.2	0.0	7814.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	9594.0	0.0	9594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.2
10°-20°	382.2	4.0
20°-30°	669.7	7.0
30°-40°	993.0	10.4
40°-50°	1452.3	15.1
50°-60°	1998.4	20.8
60°-70°	2224.8	23.2
70°-80°	1507.5	15.7
80°-90°	247.8	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°	9594.0	100.0
0°-180°	9594.0	100.0

Coefficient of Utilization



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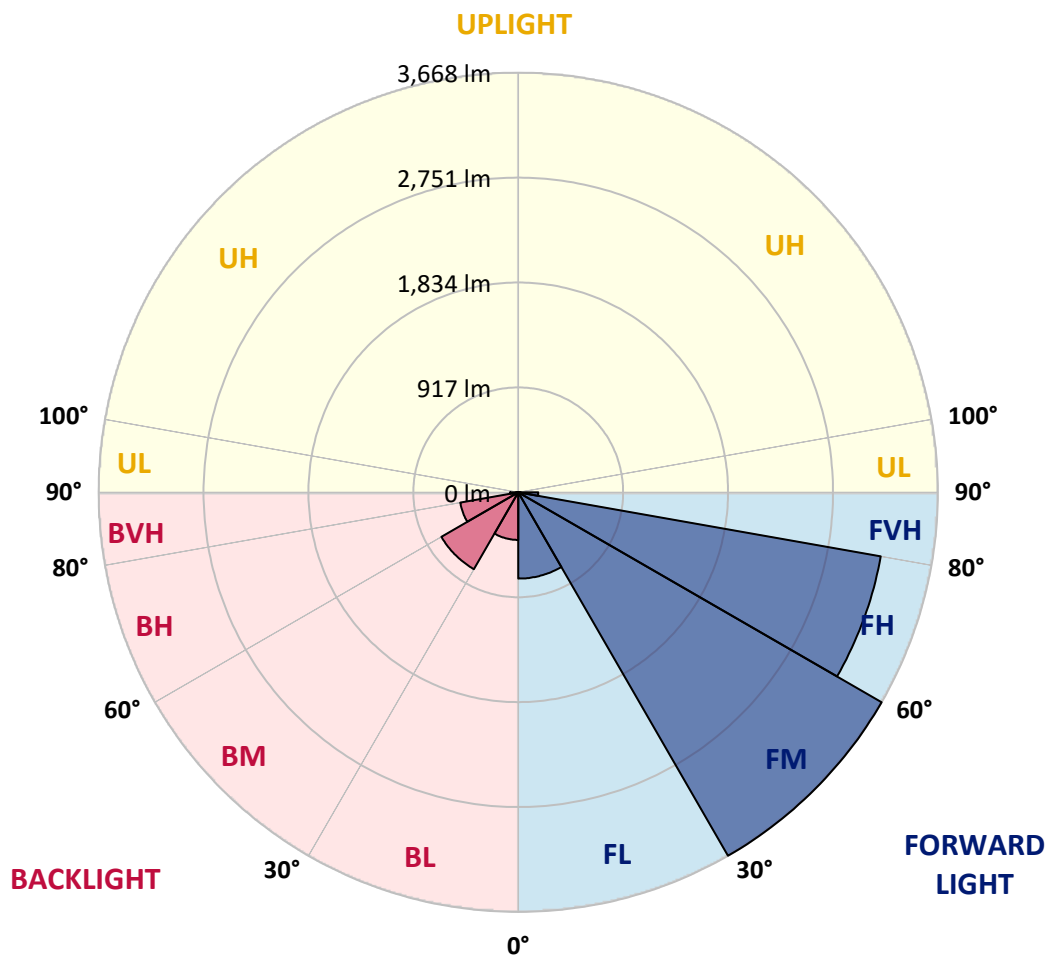
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.1	7.9			
FM	(30°-60°)	3667.9	38.2			
FH	(60°-80°)	3217.4	33.5			G2/5000
FVH	(80°-90°)	174.8	1.8			G2/225
BL	(0°-30°)	416.0	4.3	B1/500		
BM	(30°-60°)	775.8	8.1	B1/1000		
BH	(60°-80°)	514.9	5.4	B2/1000		G2/1000
BVH	(80°-90°)	73.0	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°	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1303.9	1301.9	1294.9	1294.9	1281.7	1270.5	1249.4	1235.1	1218.3	1212.4	1192.5
5°	1430.1	1430.7	1422.1	1416.2	1396.7	1372.9	1336.9	1304.2	1271.5	1258.3	1217.6
7.5°	1536.1	1534.8	1532.5	1527.5	1509.3	1484.9	1436.3	1387.8	1339.5	1319.7	1249.7
10°	1604.1	1607.1	1609.1	1611.4	1603.8	1586.3	1540.4	1481.3	1418.2	1391.1	1288.0
12.5°	1638.5	1643.8	1653.0	1668.9	1681.4	1679.5	1646.1	1583.3	1508.3	1474.3	1335.9
15°	1658.6	1665.6	1680.1	1708.5	1743.9	1764.0	1755.1	1698.3	1614.7	1572.8	1394.4
17.5°	1671.2	1676.8	1699.3	1737.3	1789.8	1843.3	1866.8	1819.2	1735.0	1687.1	1461.4
20°	1679.8	1684.1	1712.2	1756.8	1824.8	1910.0	1975.4	1963.6	1867.4	1805.3	1531.5
22.5°	1698.9	1702.6	1729.3	1774.3	1849.6	1959.6	2080.2	2098.0	2007.2	1936.8	1606.5
25°	1752.5	1752.5	1774.9	1806.3	1877.0	2002.5	2168.7	2247.6	2149.9	2067.9	1675.8
27.5°	1854.5	1853.5	1861.8	1872.7	1926.2	2046.1	2247.6	2379.8	2297.9	2208.3	1743.2
30°	1975.4	1982.1	1983.0	1977.8	2002.9	2100.6	2320.7	2519.2	2446.8	2350.4	1812.3
32.5°	2131.0	2135.3	2130.4	2112.9	2109.2	2177.9	2392.3	2665.2	2608.1	2498.7	1875.4
35°	2328.6	2320.3	2304.8	2269.1	2235.1	2281.3	2474.3	2811.2	2789.1	2678.1	1962.2
37.5°	2540.3	2540.7	2521.5	2440.6	2393.7	2413.5	2587.2	2976.7	3008.1	2891.5	2073.6
40°	2710.1	2719.0	2730.9	2624.6	2563.8	2591.2	2730.9	3168.6	3267.1	3144.5	2218.6
42.5°	2828.7	2839.0	2872.7	2805.9	2742.8	2793.7	2900.1	3373.5	3557.8	3436.5	2388.4
45°	2954.2	2959.9	2983.6	2954.9	2914.6	3029.2	3090.7	3585.5	3865.3	3747.7	2578.3
47.5°	3086.4	3092.3	3116.8	3097.6	3076.5	3249.2	3289.5	3785.4	4160.0	4089.6	2781.2
50°	3249.6	3253.5	3276.7	3242.0	3248.6	3415.1	3467.3	3968.7	4468.9	4396.9	2984.6
52.5°	3472.2	3473.2	3505.3	3473.9	3442.8	3536.6	3620.2	4141.5	4711.0	4677.0	3188.1
55°	3646.6	3657.2	3762.3	3755.7	3737.8	3647.0	3748.1	4306.0	4927.1	4943.2	3404.2
57.5°	3535.3	3576.6	3789.4	3939.3	4085.3	3921.5	3920.8	4491.3	5127.9	5204.5	3641.7
60°	3096.3	3152.5	3465.9	3798.6	4255.5	4399.2	4279.6	4717.6	5330.7	5463.5	3939.3
62.5°	2211.3	2303.8	2728.6	3259.8	4022.2	4715.6	5009.6	5076.7	5606.6	5763.5	4326.2
65°	1117.9	1187.9	1544.0	2183.9	3213.6	4508.8	5803.1	5862.9	6085.9	6225.3	4921.8
67.5°	679.2	705.6	879.4	1214.7	1970.2	3512.2	6062.1	7173.4	7013.5	7087.5	5771.1
70°	500.5	520.0	628.3	806.7	1133.1	2061.0	5267.3	8108.6	8003.5	7995.3	6398.7
72°	389.8	404.0	499.8	651.8	828.5	1236.5	3817.8	7763.4	8287.0	8245.3	6341.2
72.5°	369.7	382.2	469.4	613.4	782.9	1120.9	3432.6	7530.5	8266.5	8247.7	6266.9
75°	291.0	300.0	347.5	474.4	612.8	635.9	1881.0	5835.8	7333.3	7638.2	5636.6
77.5°	240.8	242.1	267.2	345.2	477.7	449.6	924.0	4049.0	5251.1	5586.4	3992.8
80°	196.2	197.9	209.8	242.1	361.4	332.7	438.7	2328.3	2940.0	2943.7	1898.8
82.5°	156.3	156.6	169.8	177.1	259.6	237.8	251.4	1093.1	1284.7	1235.8	682.5
85°	110.0	107.7	165.8	145.4	169.8	152.6	138.7	432.7	531.2	508.1	213.7
87.5°	36.7	38.0	73.7	94.1	99.1	86.5	61.8	165.8	200.5	198.9	67.7
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°	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1186.3	1175.7	1160.2	1143.0	1129.4	1115.6	1105.3	1100.0	1094.1	1089.1	1095.1
5°	1198.8	1179.0	1146.0	1113.6	1089.8	1068.7	1053.5	1045.5	1038.3	1033.3	1034.0
7.5°	1219.3	1187.2	1131.8	1084.5	1051.5	1028.7	1013.2	1007.9	1003.2	1001.9	1003.6
10°	1241.1	1193.9	1112.9	1050.2	1012.5	993.7	986.7	990.4	993.7	996.6	999.9
12.5°	1265.9	1199.8	1085.5	1009.9	977.8	970.5	977.5	993.3	1004.9	1011.8	1016.1
15°	1298.2	1205.1	1053.8	969.6	948.1	956.3	979.8	1007.2	1027.4	1040.2	1042.2
17.5°	1328.0	1204.8	1013.2	928.9	924.0	948.1	983.4	1022.1	1049.2	1067.3	1071.0
20°	1358.7	1195.8	965.9	889.3	899.5	939.2	985.1	1031.7	1064.4	1085.5	1090.5
22.5°	1387.4	1180.3	914.1	853.3	879.0	927.3	978.8	1026.0	1058.7	1075.9	1081.2
25°	1406.9	1153.2	861.5	822.9	860.9	912.7	958.3	996.3	1020.8	1029.3	1030.7
27.5°	1416.8	1117.9	812.0	796.5	842.0	889.0	920.3	939.2	946.1	945.4	944.1
30°	1418.2	1071.3	769.4	775.0	820.2	853.9	868.8	865.2	856.2	841.1	842.4
32.5°	1413.9	1018.8	733.7	754.5	792.5	811.3	812.0	794.5	770.7	746.6	740.0
35°	1415.2	967.2	702.3	731.4	758.8	767.1	759.5	733.7	701.3	670.3	663.7
37.5°	1429.7	922.3	675.2	704.6	721.5	723.4	712.5	685.5	661.7	631.3	628.6
40°	1464.4	890.3	649.5	674.6	684.1	685.1	669.6	650.4	652.4	636.2	635.9
42.5°	1526.8	876.4	626.7	643.2	649.1	651.1	639.2	627.0	644.2	633.6	630.0
45°	1607.4	879.7	607.5	612.5	623.4	632.6	625.3	610.5	617.1	571.2	556.0
47.5°	1700.6	900.8	592.3	586.0	604.9	622.4	611.1	588.7	565.2	519.6	511.0
50°	1809.6	933.5	578.4	559.9	584.7	608.5	597.3	565.2	529.9	507.7	504.8
52.5°	1923.3	973.5	564.6	531.2	559.3	597.9	592.3	559.9	516.3	494.5	490.6
55°	2052.1	1013.8	547.0	497.8	531.9	593.0	590.0	540.8	506.1	493.9	490.9
57.5°	2212.3	1059.7	523.9	463.1	506.1	575.1	565.9	529.2	495.5	486.3	485.3
60°	2421.1	1127.5	490.6	426.1	474.7	547.7	545.7	512.4	478.7	472.1	470.7
62.5°	2734.2	1239.4	444.6	389.1	439.7	501.1	519.3	489.6	460.8	460.5	461.2
65°	3219.8	1407.9	394.8	356.8	404.3	461.8	488.6	466.1	442.7	449.3	450.3
67.5°	3782.7	1547.7	345.9	325.1	368.3	424.5	460.8	442.7	418.5	435.7	436.1
70°	3970.1	1422.8	302.9	293.7	331.0	388.5	430.8	416.9	392.4	409.6	408.0
72°	3694.5	1148.6	275.2	269.9	302.9	358.8	404.0	392.8	368.7	380.2	375.9
72.5°	3607.7	1095.1	268.2	263.9	295.3	351.2	397.1	386.8	362.7	372.6	368.7
75°	3218.2	951.1	230.6	231.6	257.7	314.2	358.1	354.8	330.0	331.0	329.7
77.5°	2334.2	697.4	194.2	200.8	219.3	276.2	318.8	316.8	289.7	284.8	283.8
80°	1083.2	355.8	158.2	161.2	180.4	230.9	271.9	269.2	247.4	241.1	237.5
82.5°	371.0	169.1	118.9	120.9	139.7	186.0	235.9	234.2	216.0	203.8	196.2
85°	132.5	84.2	83.2	81.3	99.8	146.3	205.5	196.6	169.8	144.7	144.0
87.5°	42.9	36.0	42.9	42.6	58.1	99.1	149.3	127.2	123.2	102.4	100.4
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)