

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: P318146

Luminaire Tested: **GAN-SA2A-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318146
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-SA2A-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9356 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

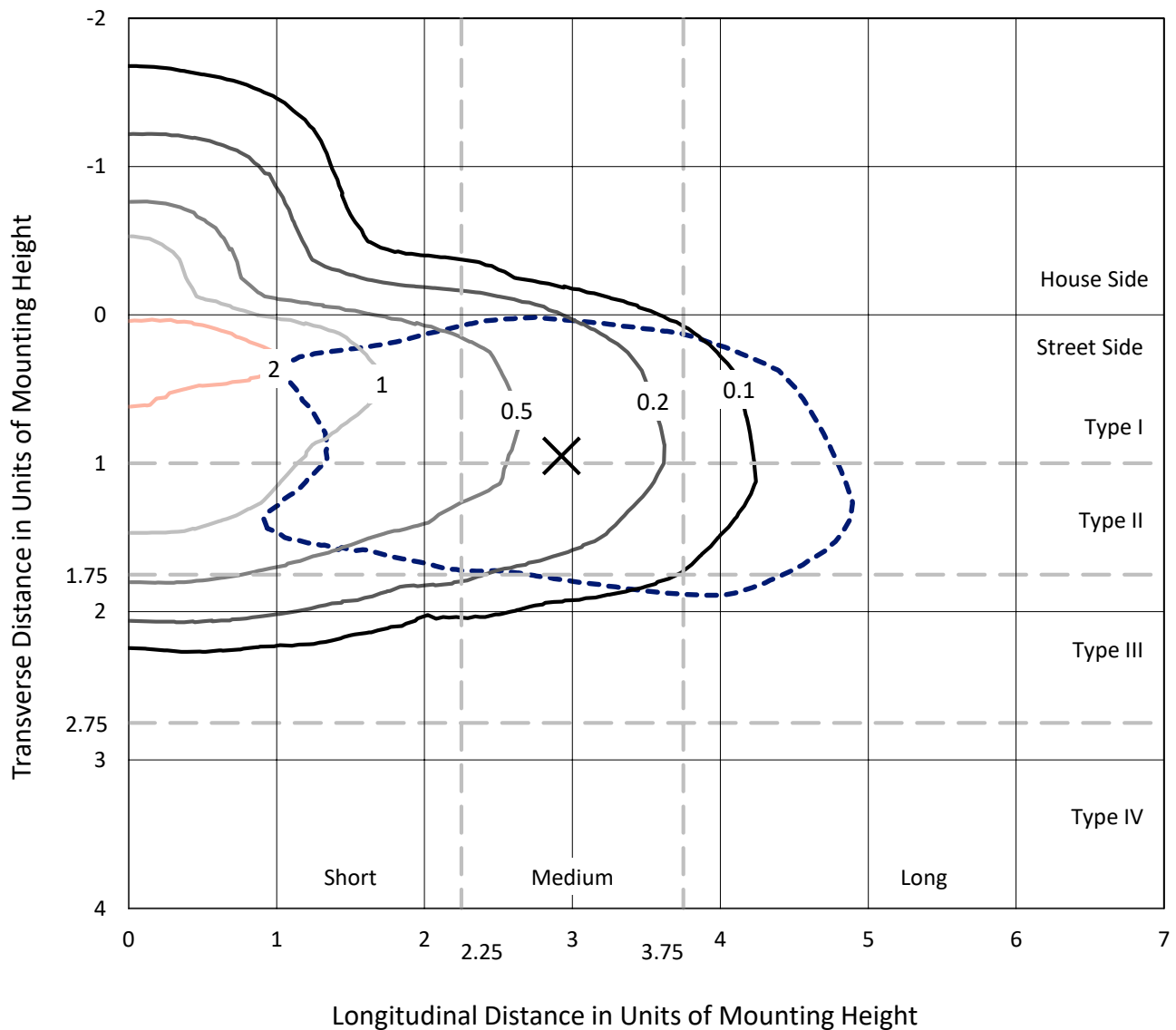
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

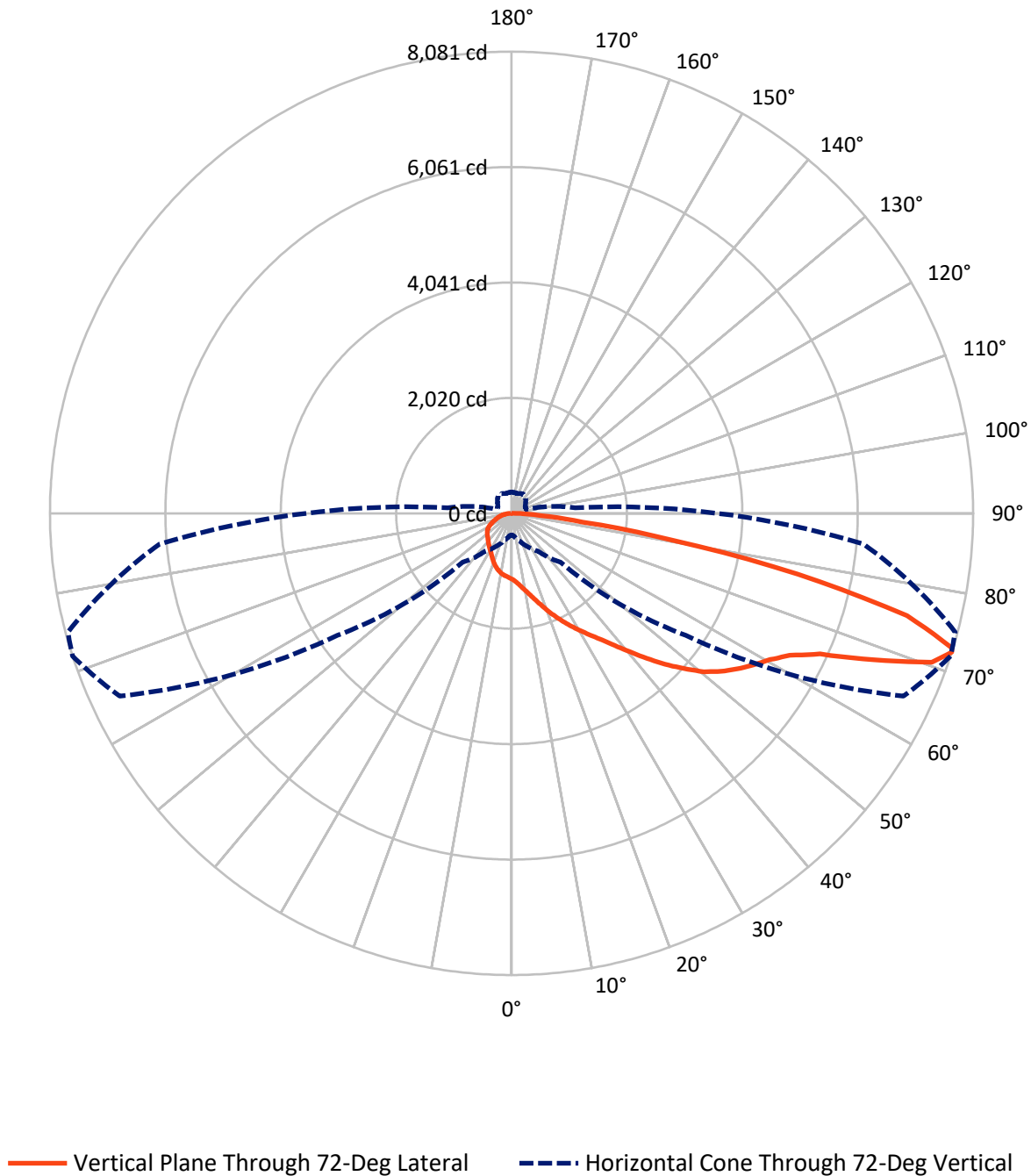
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1735.6	0.0	1735.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7620.4	0.0	7620.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	9356.0	0.0	9356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.2
10°-20°	372.7	4.0
20°-30°	653.1	7.0
30°-40°	968.4	10.4
40°-50°	1416.3	15.1
50°-60°	1948.8	20.8
60°-70°	2169.6	23.2
70°-80°	1470.1	15.7
80°-90°	241.6	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°	9356.0	100.0
0°-180°	9356.0	100.0

Coefficient of Utilization



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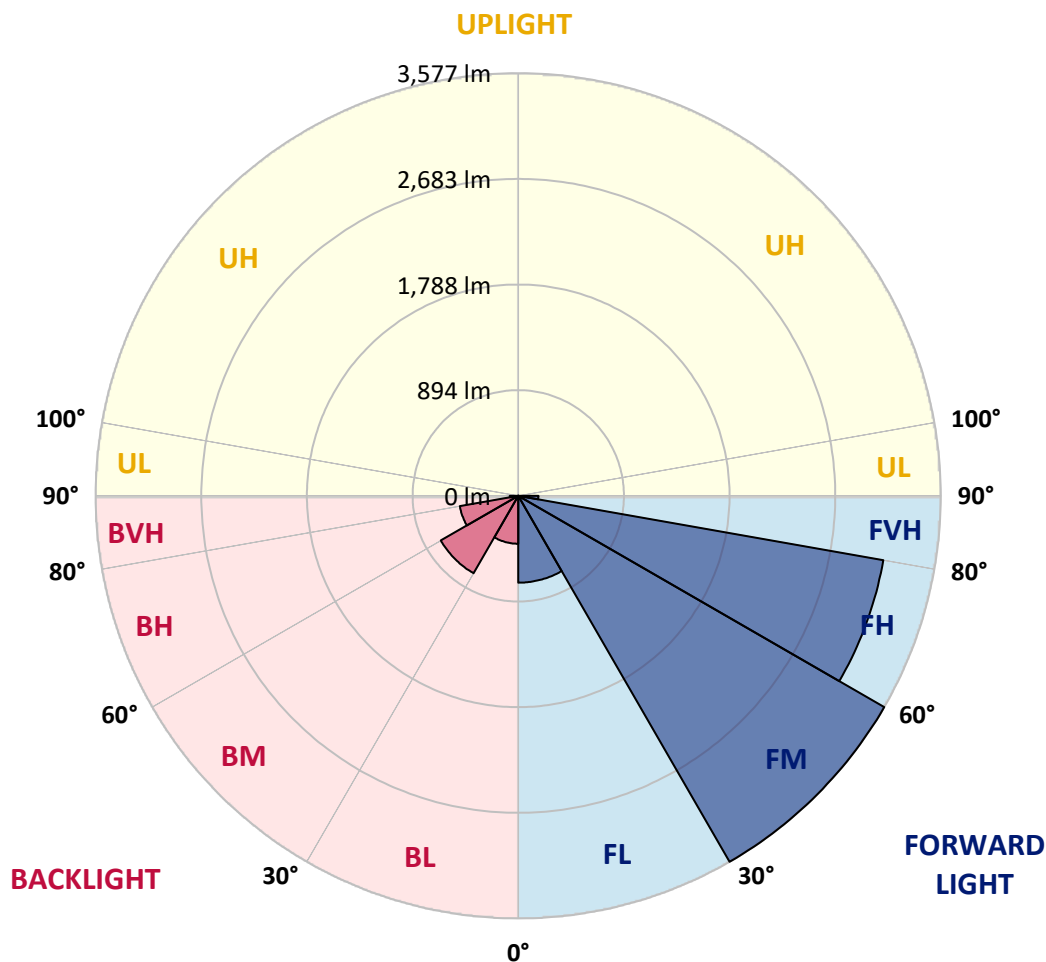
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.4	7.9			
FM	(30°-60°)	3576.9	38.2			
FH	(60°-80°)	3137.6	33.5			G2/5000
FVH	(80°-90°)	170.4	1.8			G2/225
BL	(0°-30°)	405.7	4.3	B1/500		
BM	(30°-60°)	756.6	8.1	B1/1000		
BH	(60°-80°)	502.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	71.2	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°	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0
2.5°	1271.5	1269.6	1262.8	1262.8	1249.9	1239.0	1218.4	1204.5	1188.1	1182.3	1163.0
5°	1394.6	1395.2	1386.8	1381.0	1362.0	1338.8	1303.7	1271.8	1239.9	1227.1	1187.4
7.5°	1498.0	1496.7	1494.4	1489.6	1471.9	1448.1	1400.7	1353.3	1306.3	1287.0	1218.7
10°	1564.3	1567.2	1569.2	1571.4	1564.0	1547.0	1502.2	1444.5	1383.0	1356.6	1256.1
12.5°	1597.9	1603.0	1612.0	1627.5	1639.7	1637.8	1605.3	1544.1	1470.9	1437.7	1302.8
15°	1617.5	1624.3	1638.4	1666.1	1700.6	1720.3	1711.6	1656.2	1574.7	1533.7	1359.8
17.5°	1629.7	1635.2	1657.1	1694.2	1745.4	1797.6	1820.5	1774.1	1691.9	1645.2	1425.2
20°	1638.1	1642.3	1669.7	1713.2	1779.5	1862.7	1926.4	1914.8	1821.1	1760.5	1493.5
22.5°	1656.8	1660.3	1686.4	1730.3	1803.7	1911.0	2028.6	2046.0	1957.4	1888.7	1566.6
25°	1709.0	1709.0	1730.9	1761.5	1830.4	1952.9	2114.9	2191.9	2096.5	2016.6	1634.3
27.5°	1808.5	1807.6	1815.6	1826.3	1878.4	1995.4	2191.9	2320.7	2240.9	2153.6	1700.0
30°	1926.4	1932.9	1933.8	1928.7	1953.2	2048.5	2263.1	2456.7	2386.1	2292.1	1767.3
32.5°	2078.2	2082.4	2077.5	2060.5	2056.9	2123.9	2333.0	2599.1	2543.4	2436.7	1828.8
35°	2270.8	2262.8	2247.6	2212.8	2179.6	2224.7	2412.9	2741.5	2719.9	2611.6	1913.6
37.5°	2477.3	2477.6	2458.9	2380.0	2334.3	2353.6	2523.1	2902.9	2933.5	2819.8	2022.1
40°	2642.9	2651.6	2663.2	2559.5	2500.2	2526.9	2663.2	3090.0	3186.0	3066.5	2163.5
42.5°	2758.5	2768.5	2801.4	2736.3	2674.8	2724.4	2828.1	3289.8	3469.5	3351.3	2329.1
45°	2881.0	2886.4	2909.6	2881.6	2842.3	2954.1	3014.0	3496.6	3769.4	3654.8	2514.4
47.5°	3009.8	3015.6	3039.5	3020.8	3000.2	3168.6	3207.9	3691.5	4056.8	3988.2	2712.2
50°	3169.0	3172.8	3195.4	3161.6	3168.0	3330.4	3381.3	3870.3	4358.0	4287.8	2910.6
52.5°	3386.1	3387.1	3418.3	3387.7	3357.4	3448.9	3530.4	4038.8	4594.1	4561.0	3109.0
55°	3556.2	3566.5	3668.9	3662.5	3645.1	3556.5	3655.1	4199.2	4804.8	4820.6	3319.7
57.5°	3447.6	3487.9	3695.4	3841.6	3984.0	3824.2	3823.6	4379.9	5000.7	5075.4	3551.4
60°	3019.5	3074.3	3380.0	3704.4	4149.9	4290.0	4173.4	4600.6	5198.5	5328.0	3841.6
62.5°	2156.5	2246.7	2660.9	3178.9	3922.5	4598.7	4885.4	4950.8	5467.5	5620.5	4218.8
65°	1090.1	1158.4	1505.7	2129.7	3133.8	4397.0	5659.2	5717.5	5934.9	6070.9	4799.7
67.5°	662.3	688.1	857.6	1184.5	1921.3	3425.1	5911.7	6995.4	6839.5	6911.7	5627.9
70°	488.1	507.1	612.7	786.7	1105.0	2009.9	5136.6	7907.4	7805.0	7796.9	6240.0
72°	380.1	394.0	487.4	635.6	807.9	1205.8	3723.1	7570.8	8081.4	8040.8	6183.9
72.5°	360.5	372.7	457.8	598.2	763.5	1093.0	3347.4	7343.7	8061.4	8043.1	6111.5
75°	283.8	292.5	338.9	462.6	597.6	620.1	1834.3	5691.1	7151.3	7448.7	5496.8
77.5°	234.8	236.1	260.6	336.6	465.8	438.4	901.0	3948.6	5120.9	5447.8	3893.8
80°	191.4	193.0	204.6	236.1	352.4	324.4	427.8	2270.5	2867.1	2870.7	1851.7
82.5°	152.4	152.7	165.6	172.7	253.2	231.9	245.2	1066.0	1252.8	1205.2	665.6
85°	107.3	105.0	161.7	141.7	165.6	148.8	135.3	422.0	518.0	495.5	208.4
87.5°	35.8	37.0	71.8	91.8	96.6	84.4	60.2	161.7	195.5	193.9	66.0
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°	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0	1151.0
2.5°	1156.8	1146.5	1131.4	1114.6	1101.4	1087.9	1077.9	1072.8	1067.0	1062.1	1067.9
5°	1169.1	1149.7	1117.5	1086.0	1062.8	1042.1	1027.3	1019.6	1012.5	1007.7	1008.3
7.5°	1189.0	1157.8	1103.7	1057.6	1025.4	1003.2	988.0	982.9	978.4	977.1	978.7
10°	1210.3	1164.2	1085.3	1024.1	987.4	969.0	962.3	965.8	969.0	971.9	975.1
12.5°	1234.5	1170.0	1058.6	984.8	953.6	946.5	953.2	968.7	980.0	986.7	990.9
15°	1266.0	1175.2	1027.6	945.5	924.6	932.6	955.5	982.2	1001.9	1014.4	1016.4
17.5°	1295.0	1174.9	988.0	905.9	901.0	924.6	959.0	996.7	1023.1	1040.9	1044.4
20°	1325.0	1166.2	942.0	867.2	877.2	915.9	960.6	1006.1	1038.0	1058.6	1063.4
22.5°	1353.0	1151.0	891.4	832.1	857.2	904.3	954.5	1000.6	1032.5	1049.2	1054.4
25°	1372.0	1124.6	840.2	802.5	839.5	890.1	934.5	971.6	995.4	1003.8	1005.1
27.5°	1381.7	1090.1	791.8	776.7	821.2	866.9	897.5	915.9	922.6	922.0	920.7
30°	1383.0	1044.7	750.3	755.8	799.9	832.8	847.2	843.7	835.0	820.2	821.5
32.5°	1378.8	993.5	715.5	735.8	772.8	791.2	791.8	774.8	751.6	728.1	721.6
35°	1380.1	943.2	684.9	713.2	740.0	748.0	740.6	715.5	683.9	653.6	647.2
37.5°	1394.3	899.4	658.5	687.1	703.6	705.5	694.9	668.5	645.3	615.6	613.0
40°	1428.1	868.2	633.3	657.8	667.2	668.1	653.0	634.3	636.2	620.5	620.1
42.5°	1489.0	854.7	611.1	627.2	633.0	635.0	623.4	611.4	628.2	617.9	614.3
45°	1567.6	857.9	592.4	597.3	607.9	616.9	609.8	595.3	601.8	557.0	542.2
47.5°	1658.4	878.5	577.6	571.5	589.9	606.9	596.0	574.1	551.2	506.7	498.4
50°	1764.7	910.4	564.1	546.0	570.2	593.4	582.4	551.2	516.7	495.1	492.2
52.5°	1875.5	949.4	550.5	518.0	545.4	583.1	577.6	546.0	503.5	482.3	478.4
55°	2001.2	988.7	533.5	485.5	518.7	578.3	575.4	527.4	493.5	481.6	478.7
57.5°	2157.4	1033.4	510.9	451.7	493.5	560.9	551.8	516.1	483.2	474.2	473.2
60°	2361.0	1099.5	478.4	415.6	462.9	534.1	532.2	499.7	466.8	460.3	459.1
62.5°	2666.4	1208.7	433.6	379.5	428.8	488.7	506.4	477.4	449.4	449.1	449.7
65°	3140.0	1373.0	385.0	347.9	394.3	450.4	476.5	454.5	431.7	438.1	439.1
67.5°	3688.9	1509.3	337.3	317.0	359.2	414.0	449.4	431.7	408.2	424.9	425.2
70°	3871.6	1387.5	295.4	286.4	322.8	378.8	420.1	406.5	382.7	399.5	397.9
72°	3602.9	1120.1	268.3	263.2	295.4	349.9	394.0	383.0	359.5	370.8	366.6
72.5°	3518.2	1067.9	261.6	257.4	288.0	342.4	387.2	377.2	353.7	363.4	359.5
75°	3138.4	927.5	224.9	225.8	251.3	306.4	349.2	346.0	321.8	322.8	321.5
77.5°	2276.3	680.1	189.4	195.9	213.9	269.3	310.9	308.9	282.5	277.7	276.7
80°	1056.3	347.0	154.3	157.2	175.9	225.2	265.1	262.5	241.3	235.2	231.6
82.5°	361.8	164.9	116.0	117.9	136.3	181.4	230.0	228.4	210.7	198.8	191.4
85°	129.2	82.1	81.2	79.2	97.3	142.7	200.4	191.7	165.6	141.1	140.5
87.5°	41.9	35.1	41.9	41.6	56.7	96.6	145.6	124.0	120.2	99.9	97.9
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)