

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: P318386

Luminaire Tested: **GAN-SA2A-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2A-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9537 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

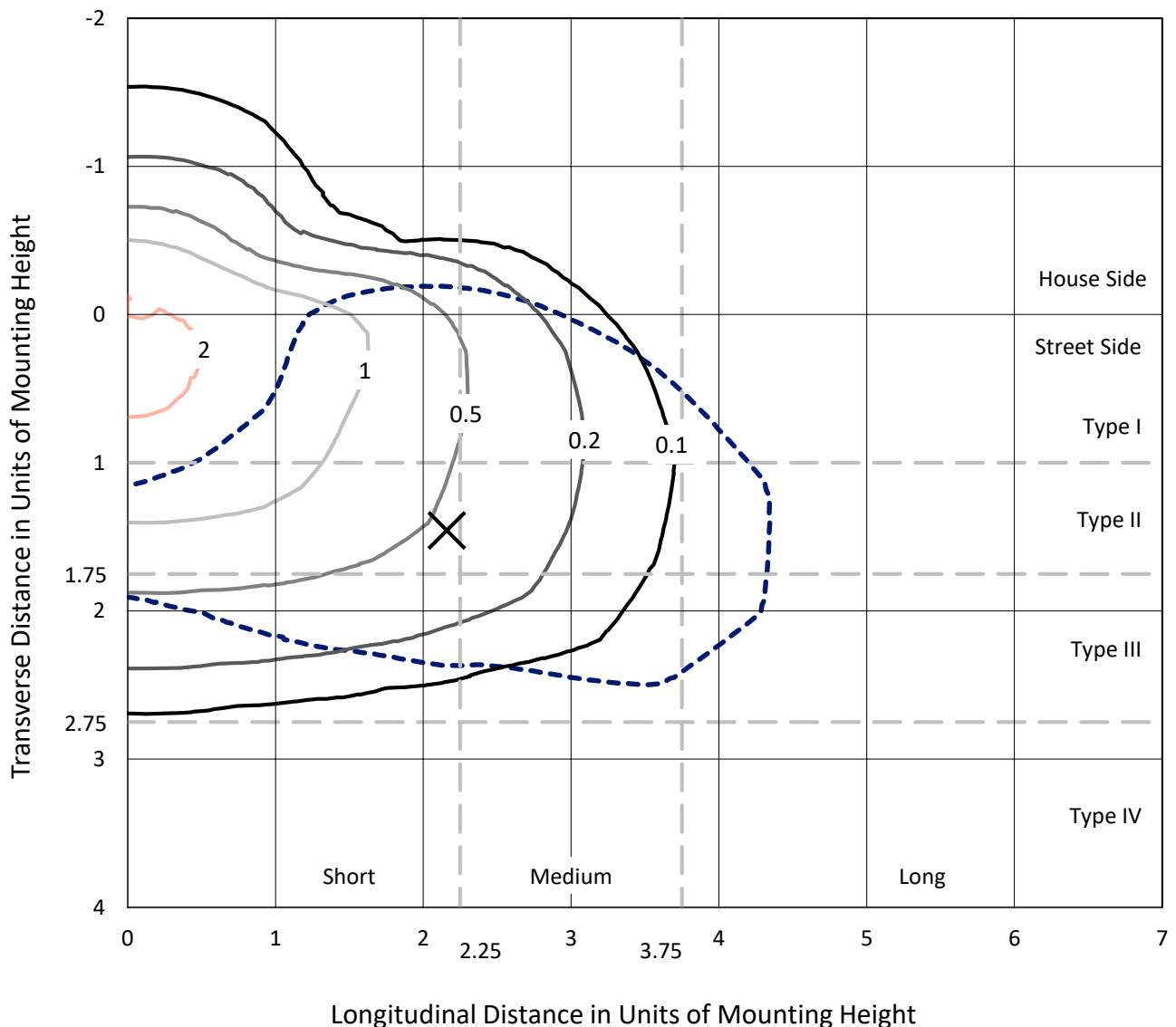
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

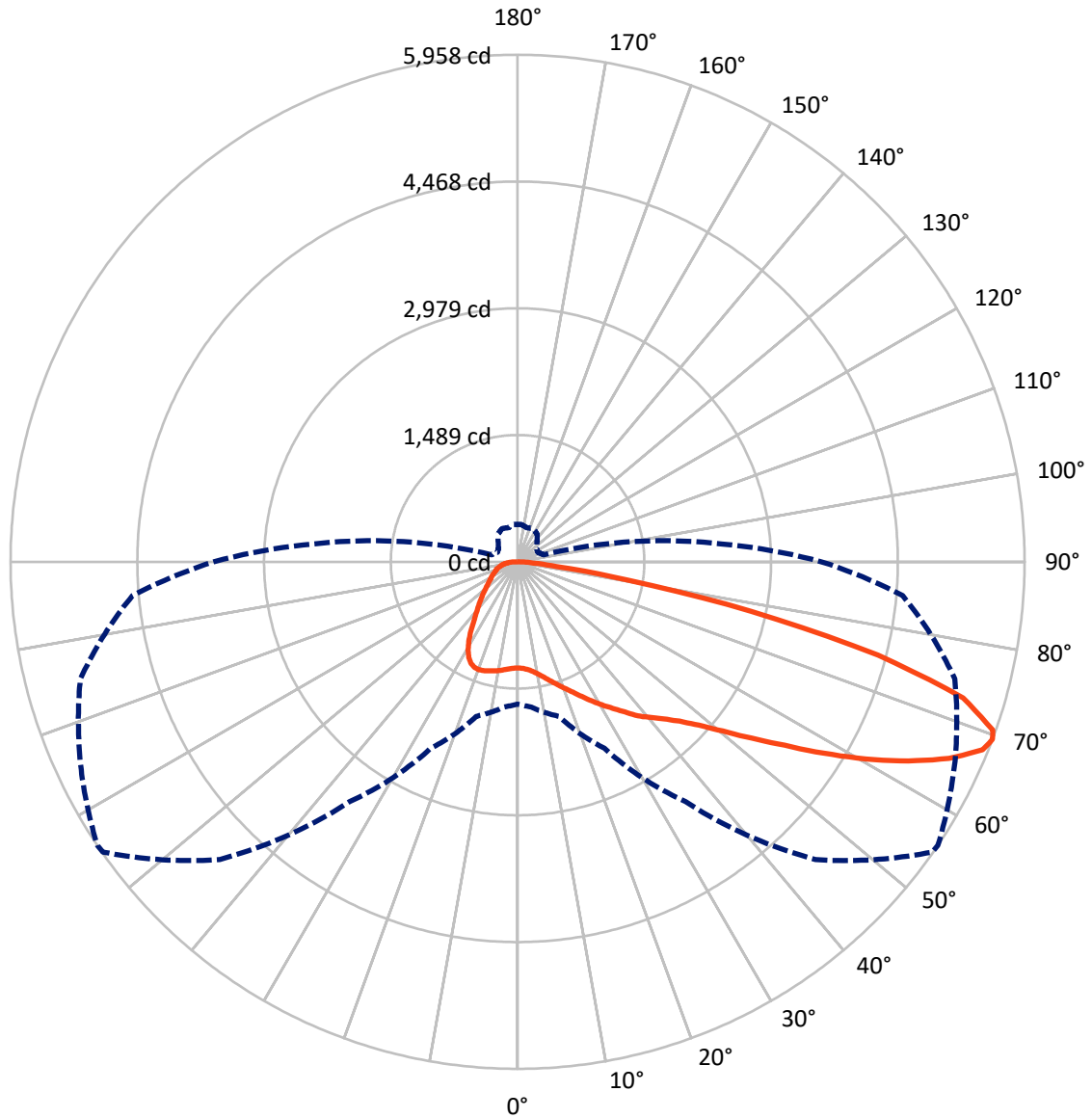
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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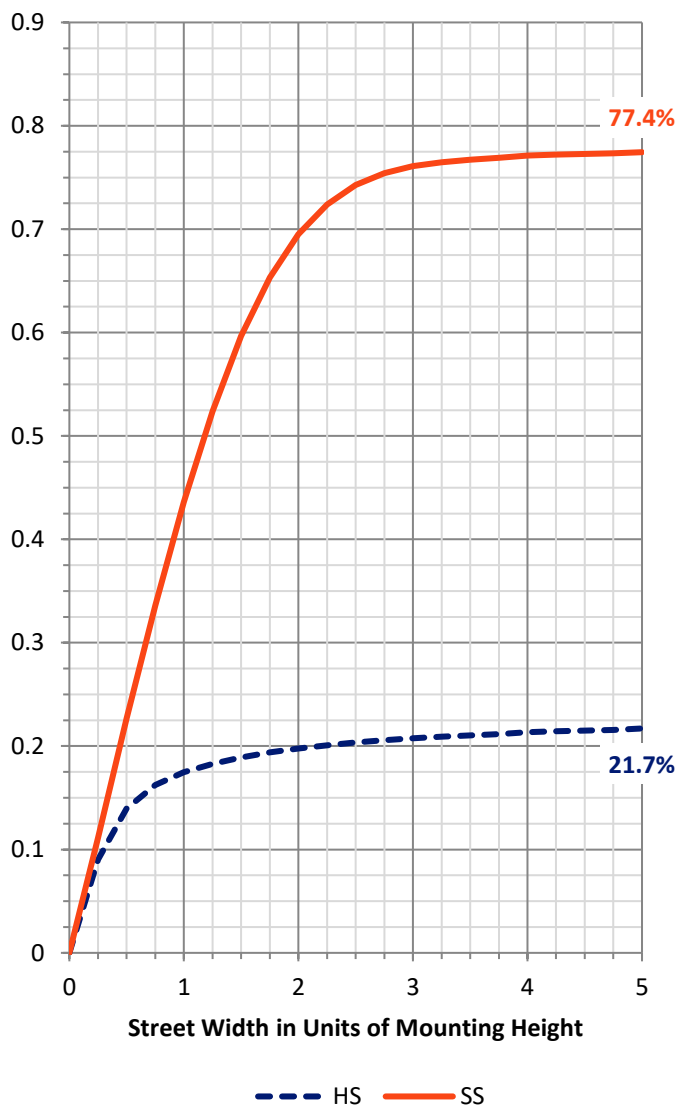
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2123.9	0.0	2123.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	7413.1	0.0	7413.1
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	9537.0	0.0	9537.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	1.3
10°-20°	393.8	4.1
20°-30°	687.4	7.2
30°-40°	987.4	10.4
40°-50°	1366.5	14.3
50°-60°	2002.1	21.0
60°-70°	2441.0	25.6
70°-80°	1349.5	14.2
80°-90°	186.9	2.0
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°	9537.0	100.0
0°-180°	9537.0	100.0

**Coefficient of Utilization**



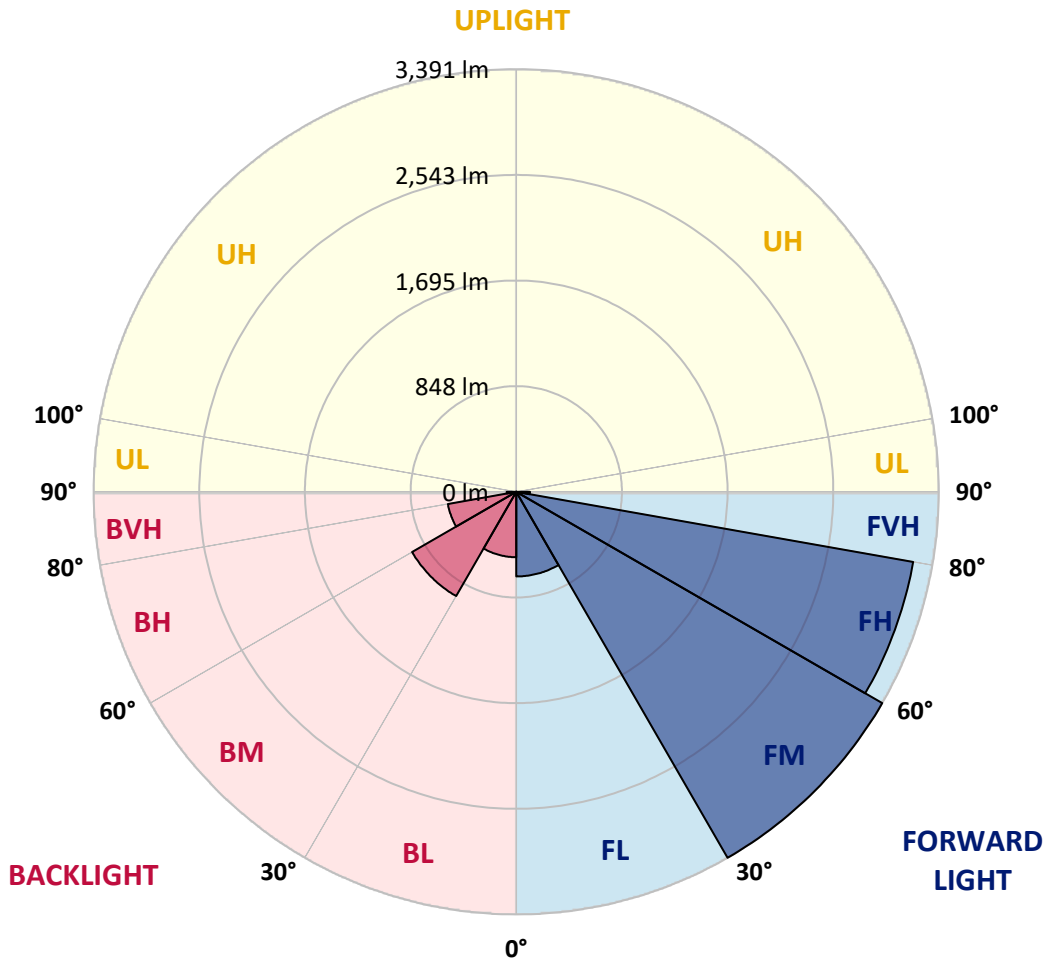
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	678.8	7.1			
FM	(30°-60°)	3390.8	35.6			
FH	(60°-80°)	3233.5	33.9			G2/5000
FVH	(80°-90°)	110.1	1.2			G2/225
BL	(0°-30°)	524.9	5.5	B2/1000		
BM	(30°-60°)	965.3	10.1	B1/1000		
BH	(60°-80°)	557.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	76.8	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1254.7	1256.0	1255.0	1257.7	1254.7	1256.7	1255.0	1255.0	1254.0	1251.1	1247.8
5°	1274.4	1277.0	1275.4	1278.0	1274.4	1275.1	1272.1	1272.1	1269.2	1262.9	1256.3
7.5°	1305.3	1308.3	1306.9	1309.6	1304.6	1304.6	1300.7	1300.4	1294.5	1284.3	1276.7
10°	1342.1	1346.0	1344.7	1348.7	1344.7	1346.0	1342.1	1342.1	1334.2	1319.8	1310.2
12.5°	1395.6	1400.6	1397.0	1396.6	1395.0	1397.6	1394.3	1393.7	1386.4	1366.7	1353.6
15°	1467.3	1472.5	1465.0	1464.3	1455.1	1454.1	1454.1	1453.1	1448.5	1424.9	1403.2
17.5°	1549.7	1551.4	1544.8	1534.3	1522.5	1514.9	1513.9	1516.6	1516.6	1489.0	1454.5
20°	1630.6	1633.5	1628.3	1616.4	1601.3	1590.1	1582.3	1587.5	1587.2	1554.3	1505.4
22.5°	1718.6	1725.5	1717.6	1702.5	1684.8	1672.3	1658.5	1663.1	1663.4	1623.0	1555.3
25°	1832.6	1826.4	1821.4	1800.1	1774.8	1762.0	1749.2	1753.8	1752.4	1696.9	1606.9
27.5°	1933.5	1934.8	1928.2	1905.5	1876.3	1848.1	1847.4	1850.4	1845.4	1773.8	1655.5
30°	2050.8	2051.4	2042.2	2021.9	1990.0	1953.5	1945.0	1949.9	1939.4	1846.7	1706.8
32.5°	2167.4	2170.7	2160.5	2135.9	2110.2	2065.9	2048.8	2052.1	2025.8	1921.3	1759.7
35°	2269.6	2274.2	2270.9	2254.5	2226.5	2188.4	2168.1	2166.1	2133.6	2012.7	1829.7
37.5°	2373.7	2378.0	2374.4	2360.6	2349.4	2309.0	2298.2	2298.2	2241.6	2106.0	1918.7
40°	2480.8	2487.4	2483.1	2464.1	2454.5	2436.1	2410.2	2403.9	2342.8	2218.0	2063.9
42.5°	2580.4	2588.9	2606.0	2594.8	2575.4	2578.1	2525.8	2522.6	2477.9	2383.6	2246.2
45°	2721.6	2734.1	2763.0	2754.5	2750.6	2736.1	2674.0	2671.1	2654.0	2606.3	2472.6
47.5°	2875.7	2892.8	2945.1	2946.7	2989.1	2961.8	2877.4	2867.2	2871.1	2873.1	2748.9
50°	3017.7	3036.4	3122.1	3162.6	3262.4	3268.3	3133.3	3124.1	3139.6	3184.9	3070.9
52.5°	3131.0	3154.7	3261.8	3386.6	3557.8	3606.4	3448.4	3441.5	3453.0	3531.2	3434.9
55°	3214.1	3239.8	3356.4	3583.7	3857.1	3942.8	3811.1	3804.5	3811.8	3911.3	3830.8
57.5°	3233.5	3239.8	3409.0	3716.5	4109.7	4315.7	4255.0	4241.8	4206.3	4293.1	4267.8
60°	3142.5	3167.5	3365.6	3763.1	4305.2	4683.4	4718.9	4702.4	4602.9	4673.8	4653.5
62.5°	2957.9	3002.6	3203.6	3692.2	4381.8	4983.7	5173.9	5154.2	4982.7	5028.7	4930.8
65°	2656.3	2675.3	2886.6	3447.4	4284.5	5175.9	5579.6	5569.8	5353.9	5282.0	4982.0
67.5°	2116.8	2152.6	2332.0	2935.9	3886.7	5153.2	5893.4	5892.4	5596.4	5375.9	4800.3
69°	1672.3	1709.4	1880.2	2418.4	3439.2	4945.9	5946.0	5957.5	5664.7	5318.8	4540.8
70°	1333.2	1376.3	1493.6	2037.0	3042.0	4672.5	5902.3	5923.0	5651.6	5224.5	4301.3
72.5°	567.4	602.2	685.7	1050.0	1854.0	3489.1	5396.6	5474.8	5347.0	4781.6	3554.8
75°	247.7	258.6	296.3	428.1	823.0	1899.0	4227.7	4372.2	4572.0	4041.7	2648.1
77.5°	181.4	186.0	206.7	251.3	369.3	717.2	2718.7	2802.8	3297.3	2941.1	1624.3
80°	140.3	143.6	159.7	184.6	241.2	290.1	1239.9	1312.2	1854.0	1510.6	676.5
82.5°	111.7	114.0	125.2	136.0	166.6	175.8	411.7	456.7	684.4	417.2	179.1
85°	103.8	106.4	110.4	99.2	106.8	103.2	178.1	186.3	206.7	163.9	74.9
87.5°	47.0	55.5	109.4	77.2	56.8	45.3	72.9	76.2	85.7	86.1	33.2
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°	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1249.8	1248.8	1250.4	1246.5	1251.4	1251.1	1249.4	1250.1	1253.4	1253.1	1253.4
5°	1257.3	1256.7	1258.6	1255.7	1261.6	1263.6	1263.9	1266.9	1270.5	1271.5	1271.5
7.5°	1276.4	1276.4	1277.4	1273.4	1277.4	1277.0	1275.4	1278.4	1282.0	1282.3	1282.0
10°	1309.2	1309.6	1307.9	1297.7	1294.5	1285.6	1277.4	1277.7	1282.3	1285.9	1286.9
12.5°	1350.6	1349.3	1342.1	1323.4	1309.6	1291.5	1283.0	1282.6	1287.2	1290.2	1291.2
15°	1397.9	1394.3	1375.6	1345.1	1320.7	1303.0	1289.2	1285.9	1283.3	1280.0	1280.3
17.5°	1442.6	1434.4	1403.2	1360.8	1335.2	1311.5	1284.9	1263.6	1248.8	1240.2	1237.6
20°	1488.0	1471.9	1426.9	1375.6	1343.1	1300.0	1248.8	1205.4	1178.5	1166.0	1163.7
22.5°	1529.4	1503.4	1448.9	1391.0	1336.8	1261.3	1180.8	1117.7	1080.2	1063.5	1064.8
25°	1569.8	1533.6	1471.9	1401.9	1305.3	1192.9	1086.2	1008.6	965.3	946.5	945.9
27.5°	1605.3	1564.2	1496.8	1393.0	1246.5	1095.7	974.1	898.6	862.4	846.3	843.7
30°	1646.0	1602.6	1530.0	1359.2	1160.4	983.3	864.7	811.5	785.9	769.8	766.8
32.5°	1695.6	1654.9	1557.3	1297.7	1050.4	866.0	779.3	742.2	718.9	700.8	697.5
35°	1767.9	1723.9	1564.2	1209.7	929.4	773.4	716.6	678.4	646.9	623.6	621.3
37.5°	1858.6	1810.3	1548.4	1095.7	812.2	713.3	664.3	617.3	576.3	543.4	538.2
40°	1989.3	1916.4	1504.7	964.3	725.8	666.9	613.4	559.8	508.9	470.5	462.9
42.5°	2146.4	2040.9	1437.7	833.5	662.3	620.0	562.8	496.4	447.8	420.5	416.6
45°	2346.1	2170.4	1344.7	719.2	599.9	573.0	508.3	447.1	416.9	396.9	393.6
47.5°	2574.1	2315.6	1247.1	626.2	547.0	529.0	464.6	425.1	401.2	385.4	382.4
50°	2854.4	2479.5	1143.7	550.0	493.8	476.1	443.9	413.0	393.9	381.8	378.8
52.5°	3170.4	2664.5	1069.1	489.9	449.8	437.0	433.0	406.4	391.0	381.8	378.8
55°	3510.8	2852.7	988.6	439.3	411.7	415.3	425.8	407.1	396.6	385.4	381.1
57.5°	3851.5	3047.2	898.9	396.6	381.4	399.2	420.9	408.4	399.5	388.7	384.7
60°	4120.9	3170.4	759.9	360.7	357.5	381.4	409.0	398.5	387.0	387.4	386.7
62.5°	4246.7	3163.9	606.5	328.9	333.5	357.5	390.0	383.1	373.6	386.4	387.4
65°	4176.1	3006.2	472.1	300.0	307.8	332.5	370.3	375.5	378.8	403.5	406.7
67.5°	3879.8	2699.3	365.7	274.7	284.5	315.4	372.2	409.0	413.3	439.3	438.9
69°	3573.2	2411.5	317.7	261.5	273.0	319.7	397.9	430.4	414.3	441.9	437.9
70°	3316.3	2183.8	292.1	252.6	267.8	327.2	414.9	430.1	409.4	433.0	426.4
72.5°	2554.1	1571.1	247.7	236.2	250.0	313.1	419.9	420.5	397.9	402.5	391.3
75°	1751.8	992.9	216.2	213.9	223.1	282.2	404.1	401.8	368.0	361.4	352.2
77.5°	965.9	504.3	183.7	192.5	198.8	250.0	367.3	364.0	336.1	322.3	319.0
80°	372.6	220.8	155.1	171.2	175.1	216.5	322.0	319.0	295.7	277.9	273.0
82.5°	140.6	115.6	128.1	148.2	146.9	178.7	272.7	271.0	248.4	222.4	214.5
85°	65.1	69.3	101.5	122.2	112.7	132.4	218.2	221.1	193.5	162.6	162.6
87.5°	27.6	38.8	72.0	92.3	75.9	89.4	160.0	152.8	140.3	97.2	91.3
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)