

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: P322187

Luminaire Tested: **GAN-SA3A-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9442 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

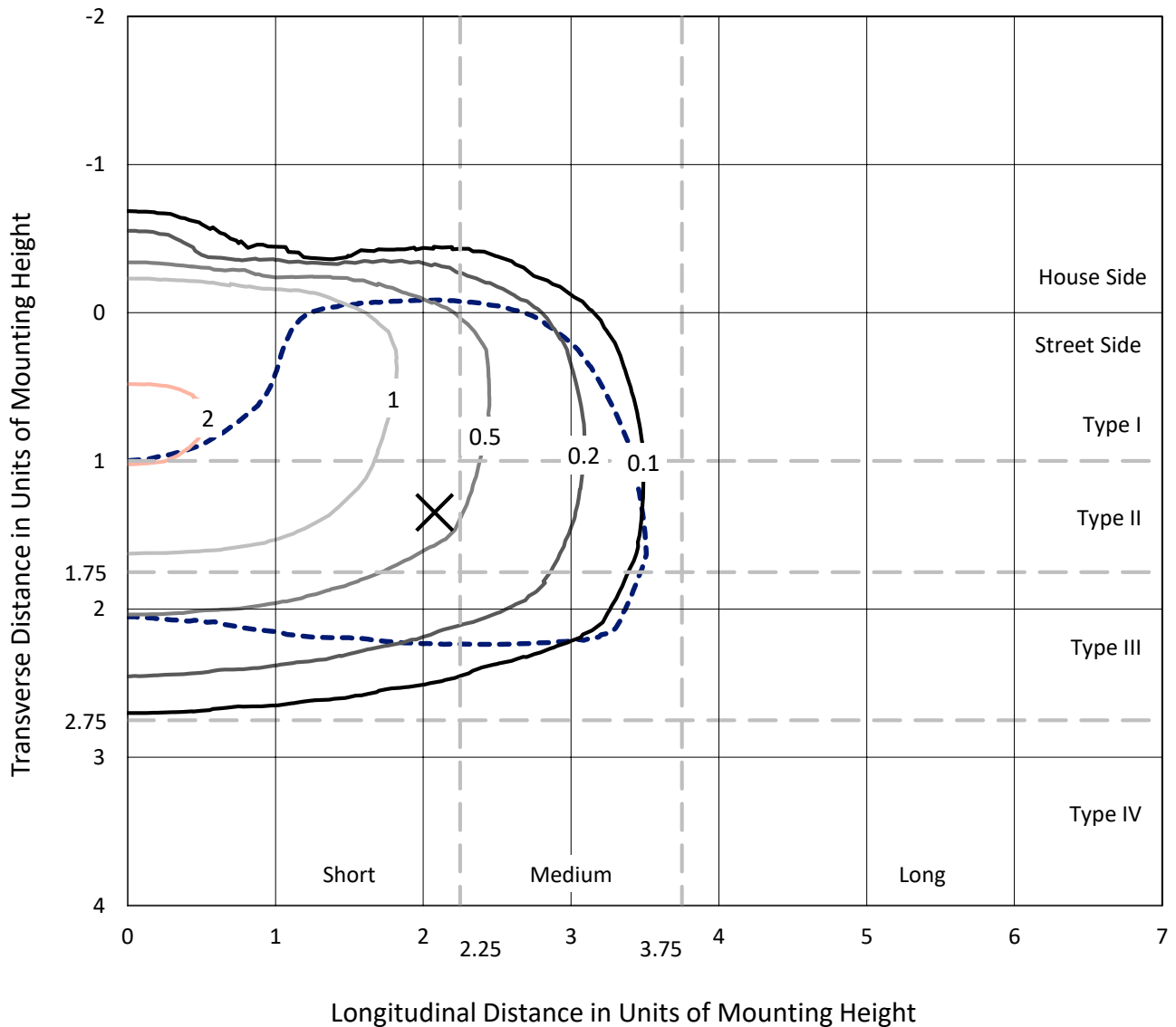
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

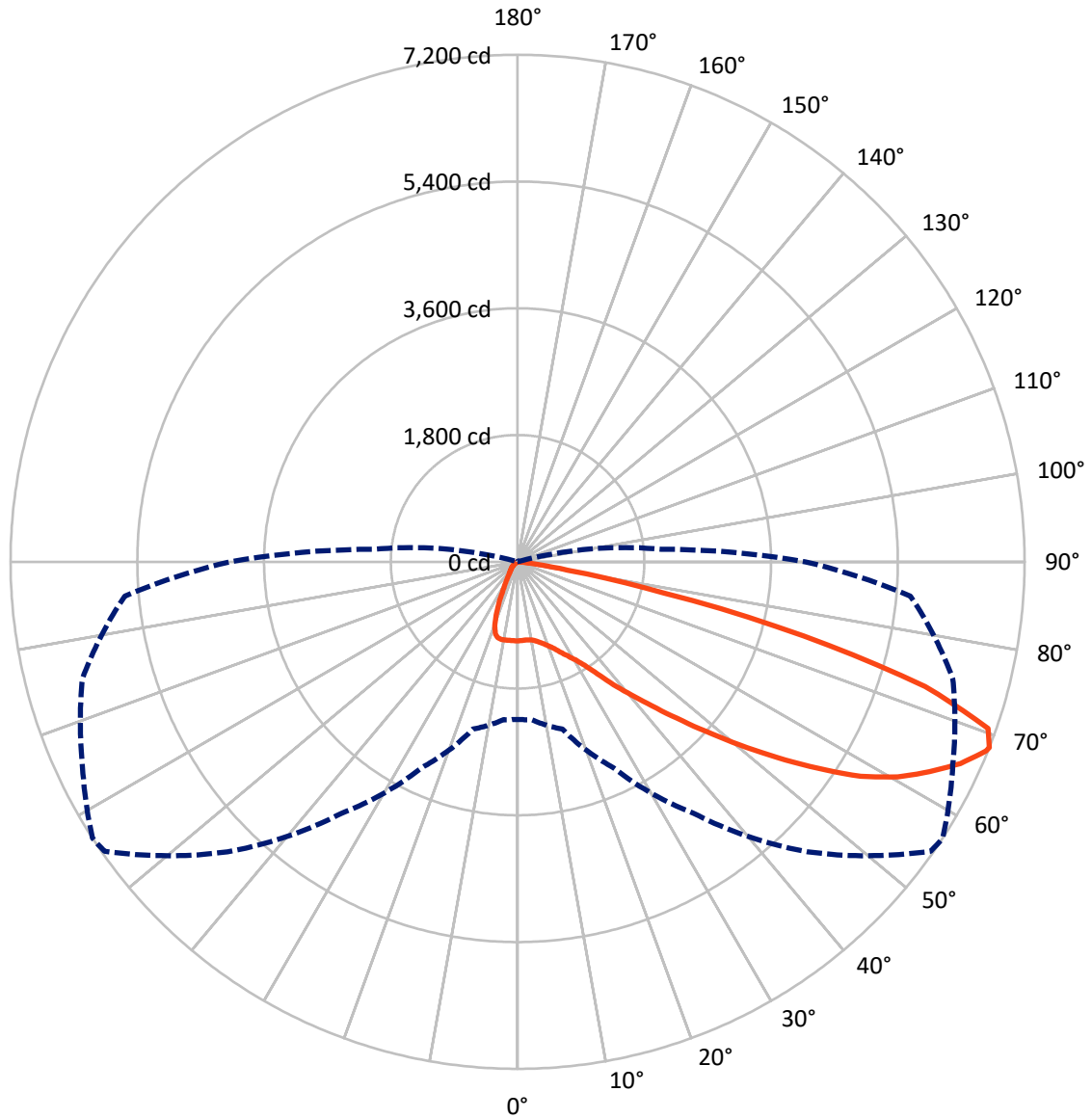
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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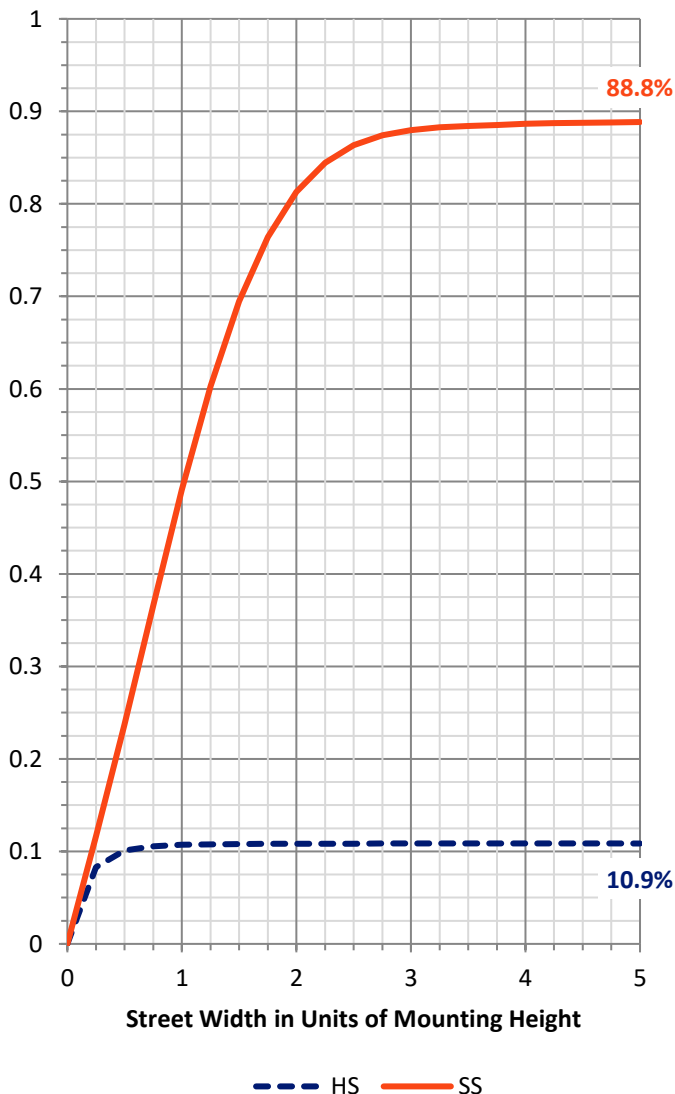
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1035.4	0.0	1035.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8406.6	0.0	8406.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	9442.0	0.0	9442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	1.1
10°-20°	291.0	3.1
20°-30°	501.9	5.3
30°-40°	866.3	9.2
40°-50°	1481.8	15.7
50°-60°	2370.8	25.1
60°-70°	2739.2	29.0
70°-80°	1046.7	11.1
80°-90°	39.2	0.4
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°	9442.0	100.0
0°-180°	9442.0	100.0

Coefficient of Utilization



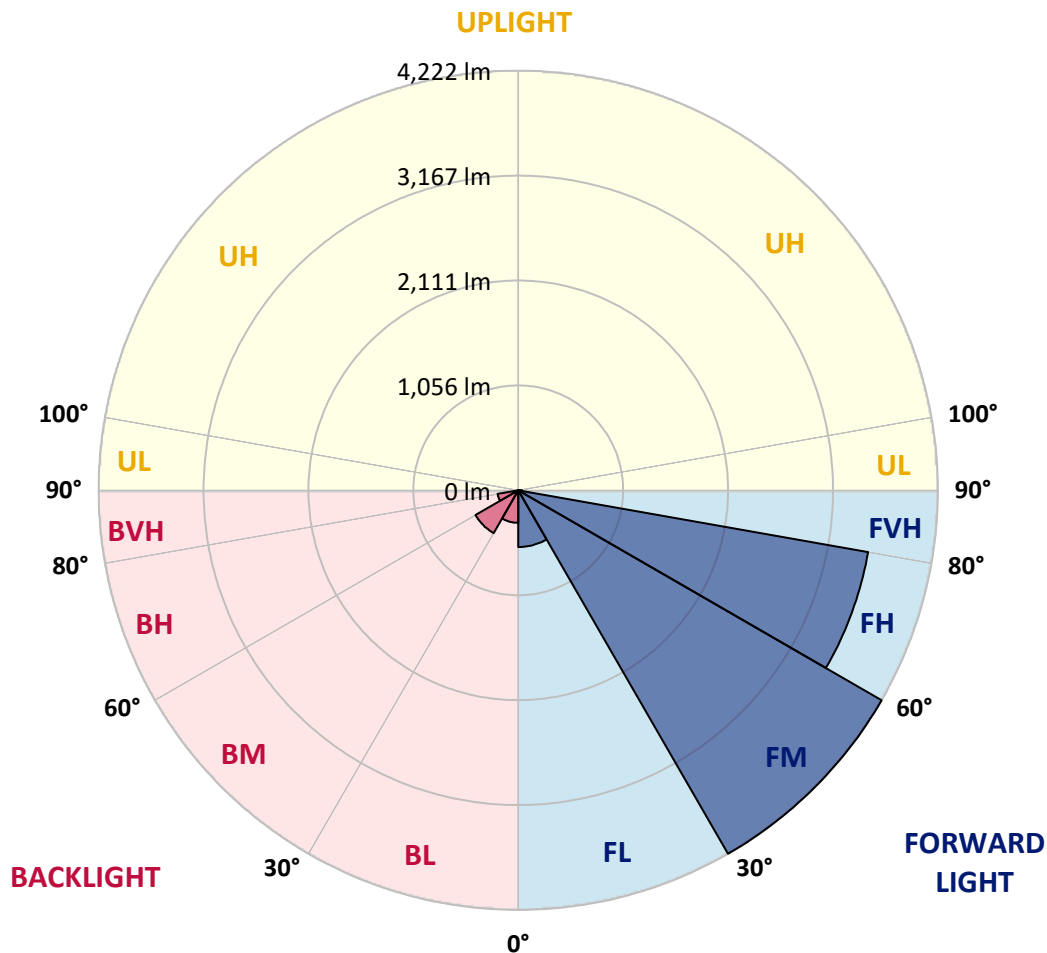
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.7	6.0			
FM (30°-60°)	4222.4	44.7			
FH (60°-80°)	3575.0	37.9			G2/5000
FVH (80°-90°)	38.5	0.4			G1/100
BL (0°-30°)	327.2	3.5	B1/500		
BM (30°-60°)	496.6	5.3	B1/1000		
BH (60°-80°)	210.9	2.2	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1095.6	1100.5	1104.1	1106.3	1109.0	1114.8	1116.6	1119.3	1120.6	1120.6	1123.7
5°	1052.3	1057.7	1065.3	1071.5	1084.0	1100.1	1111.7	1116.2	1124.2	1131.3	1135.4
7.5°	1012.1	1018.4	1027.3	1042.0	1063.5	1089.4	1113.5	1119.7	1135.4	1150.5	1158.1
10°	986.2	991.1	1002.8	1023.7	1051.9	1088.0	1122.0	1129.5	1156.3	1181.8	1196.1
12.5°	977.3	981.8	993.8	1017.5	1052.3	1094.7	1141.6	1152.8	1192.1	1229.1	1249.2
15°	990.3	991.1	1004.1	1026.4	1060.8	1111.2	1174.2	1187.6	1237.1	1285.4	1310.4
17.5°	1040.3	1036.2	1042.9	1052.8	1080.0	1133.1	1208.6	1228.7	1294.7	1351.4	1375.1
20°	1165.3	1165.3	1150.1	1123.3	1123.7	1167.1	1255.0	1277.8	1358.6	1424.2	1445.6
22.5°	1379.1	1375.1	1344.7	1279.1	1218.8	1225.5	1311.7	1341.2	1435.4	1505.5	1512.6
25°	1636.3	1631.4	1584.5	1492.1	1387.6	1320.2	1388.5	1422.4	1526.9	1589.0	1574.2
27.5°	1908.6	1904.6	1858.2	1743.4	1594.8	1471.1	1480.0	1512.2	1620.2	1681.4	1634.5
30°	2172.5	2173.8	2127.8	2010.0	1841.7	1663.5	1596.1	1614.9	1710.8	1772.9	1705.9
32.5°	2423.4	2425.2	2385.4	2253.7	2096.6	1887.2	1756.8	1751.9	1816.2	1877.4	1800.6
35°	2647.1	2651.5	2624.3	2522.1	2355.5	2136.3	1965.3	1953.7	1965.8	2035.0	1945.7
37.5°	2862.7	2865.4	2844.9	2758.7	2619.4	2410.0	2228.7	2212.2	2186.3	2239.5	2137.2
40°	3098.9	3092.2	3068.5	2990.4	2870.7	2712.3	2511.8	2483.2	2438.1	2485.5	2389.0
42.5°	3318.6	3311.0	3315.0	3226.6	3125.7	3023.0	2841.7	2792.6	2766.3	2820.7	2698.0
45°	3593.1	3589.1	3602.5	3525.7	3444.0	3369.4	3219.9	3166.3	3154.7	3218.5	3071.7
47.5°	3864.1	3873.9	3915.5	3882.9	3849.8	3784.2	3620.4	3596.2	3603.4	3680.6	3465.9
50°	4090.0	4101.6	4215.5	4253.0	4300.8	4262.4	4098.1	4083.3	4111.5	4181.1	3890.0
52.5°	4253.4	4277.1	4418.6	4591.4	4765.5	4791.4	4627.6	4614.2	4652.1	4662.8	4217.7
55°	4366.8	4387.8	4548.1	4864.2	5218.7	5330.3	5228.5	5176.7	5169.6	5063.8	4562.4
57.5°	4386.9	4384.7	4615.1	5040.6	5574.1	5862.0	5797.8	5746.9	5600.4	5434.3	4957.5
60°	4273.5	4286.5	4553.9	5101.7	5797.3	6264.3	6269.2	6203.1	5975.0	5794.6	5340.6
62.5°	3924.4	3977.1	4247.2	4941.4	5794.6	6426.4	6614.8	6564.3	6291.5	6089.7	5729.0
65°	3358.3	3377.0	3634.6	4392.3	5403.1	6358.5	6926.0	6907.2	6576.8	6376.4	5928.6
67.5°	2452.4	2411.8	2682.3	3458.7	4574.4	5962.9	7149.2	7172.9	6796.9	6435.3	5716.1
68°	2238.1	2250.2	2460.9	3227.9	4357.5	5823.2	7163.9	7200.1	6818.8	6396.9	5600.0
70°	1334.0	1357.2	1545.2	2222.5	3315.0	5032.5	7005.0	7087.6	6688.4	6000.9	4843.7
72.5°	340.7	368.3	546.0	994.7	1893.4	3545.8	5913.4	6053.1	5807.1	4868.2	3269.9
75°	140.2	147.3	195.1	327.7	705.4	1597.4	3897.6	4196.7	4025.7	2914.5	1477.8
77.5°	96.9	101.8	125.5	181.7	305.4	541.6	1910.9	2126.9	1916.2	994.7	322.3
80°	69.6	73.7	89.7	121.0	175.5	193.3	622.8	720.1	571.9	218.3	79.9
82.5°	41.5	44.6	67.0	86.2	106.7	92.4	154.9	175.9	165.6	108.5	35.7
85°	20.5	24.1	45.1	61.6	57.6	38.8	47.3	52.7	65.2	66.1	19.2
87.5°	1.3	2.7	26.3	37.1	16.1	8.9	13.8	17.0	23.2	32.6	8.0
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°	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.0
2.5°	1125.1	1125.5	1122.4	1121.1	1122.0	1116.6	1114.4	1115.3	1115.3	1116.6	1114.4
5°	1136.2	1136.2	1130.9	1123.7	1119.7	1109.5	1102.8	1101.0	1099.6	1098.7	1097.0
7.5°	1160.4	1157.7	1148.3	1132.7	1119.3	1097.0	1080.0	1071.1	1066.6	1064.8	1063.5
10°	1199.2	1194.3	1178.7	1149.6	1118.8	1079.1	1042.0	1015.7	993.8	984.9	979.5
12.5°	1251.4	1244.3	1217.9	1169.7	1115.7	1042.5	962.1	884.9	813.0	783.5	768.8
15°	1311.7	1301.4	1259.9	1186.7	1097.4	959.9	785.3	650.0	550.5	513.0	496.9
17.5°	1372.9	1359.5	1296.5	1197.4	1042.5	788.9	550.9	416.1	349.6	331.7	325.5
20°	1434.5	1414.8	1328.2	1189.4	918.4	568.8	363.4	304.0	284.8	279.5	277.7
22.5°	1493.0	1462.6	1356.8	1158.1	727.3	381.7	287.5	268.8	262.5	259.4	258.5
25°	1543.9	1501.5	1381.8	1061.7	514.8	288.4	258.9	252.7	244.7	238.9	239.3
27.5°	1591.6	1540.3	1397.0	902.7	343.3	246.4	239.7	231.3	216.5	208.1	208.1
30°	1649.2	1592.1	1408.1	694.7	252.7	217.9	212.5	199.6	179.5	168.3	168.3
32.5°	1735.8	1670.7	1401.0	487.5	209.4	191.5	179.0	161.2	139.3	128.6	128.1
35°	1868.4	1792.1	1350.1	319.7	184.8	166.5	146.4	124.6	105.4	96.4	96.0
37.5°	2047.0	1954.6	1235.8	228.6	165.6	143.3	119.2	95.1	80.8	75.0	74.6
40°	2278.7	2143.5	1072.4	185.3	147.8	121.0	92.0	73.7	63.8	59.4	59.8
42.5°	2556.9	2345.7	876.4	159.8	130.4	99.6	71.9	58.0	51.8	48.7	47.8
45°	2865.8	2545.3	671.0	142.4	113.0	80.4	56.3	46.0	41.1	39.3	39.3
47.5°	3205.6	2739.5	491.1	127.2	94.2	62.1	45.1	37.5	33.5	32.1	31.7
50°	3514.1	2874.3	354.0	111.2	77.2	49.1	36.6	31.3	28.6	26.8	26.8
52.5°	3771.3	2916.7	260.7	93.8	62.5	39.3	30.4	26.8	24.1	22.8	22.8
55°	3997.6	2899.3	193.8	77.2	50.5	32.1	25.9	22.8	20.5	19.2	19.2
57.5°	4214.6	2843.1	144.7	63.0	40.6	25.9	21.9	19.2	17.0	16.1	16.1
60°	4391.8	2749.3	107.6	50.9	32.6	21.0	18.3	15.6	13.8	12.5	12.5
62.5°	4535.6	2645.7	79.0	42.0	25.9	16.5	14.3	12.9	10.3	8.9	8.9
65°	4536.5	2473.8	59.4	34.8	20.1	12.9	10.7	10.3	6.7	5.4	4.9
67.5°	4208.3	2132.7	45.5	29.9	15.6	9.8	8.0	8.5	3.6	2.2	1.8
68°	4089.1	2046.1	42.9	29.5	14.7	9.4	7.6	8.5	3.1	1.8	1.3
70°	3447.6	1627.8	34.4	28.6	12.9	7.1	6.3	8.5	2.7	1.3	0.9
72.5°	2205.1	944.7	25.4	22.8	9.8	5.4	4.0	7.6	2.7	0.9	0.4
75°	938.5	292.9	17.4	16.1	5.8	4.0	2.7	4.9	1.8	0.4	0.0
77.5°	197.8	66.1	10.3	9.8	4.0	2.7	1.8	1.3	0.4	0.0	0.0
80°	50.9	19.2	5.4	4.9	2.2	1.3	0.9	0.0	0.0	0.0	0.0
82.5°	16.1	7.6	3.1	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.0	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)