

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: P268331

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-5WQ-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13436.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 124
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: 28.75 FT

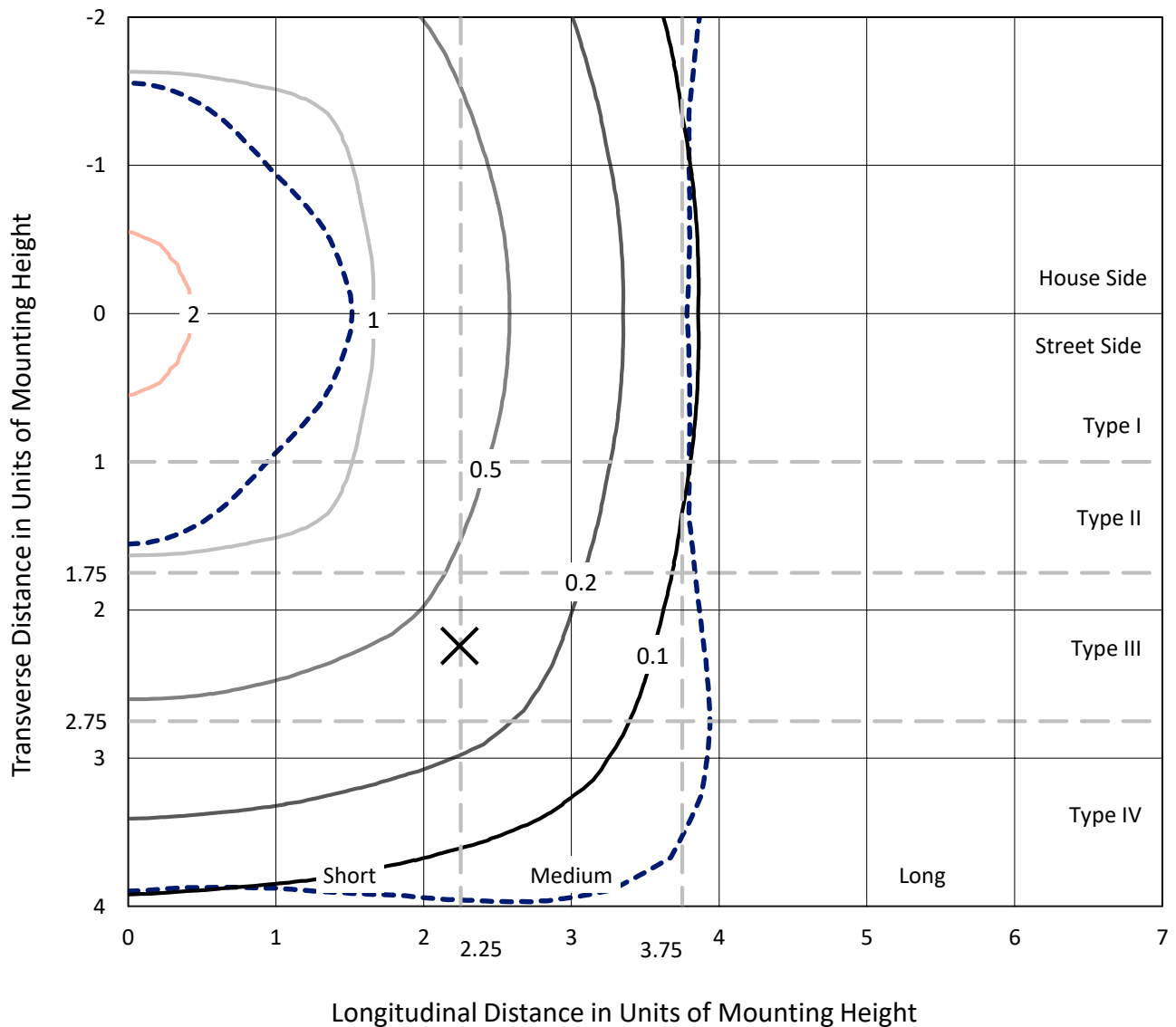


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

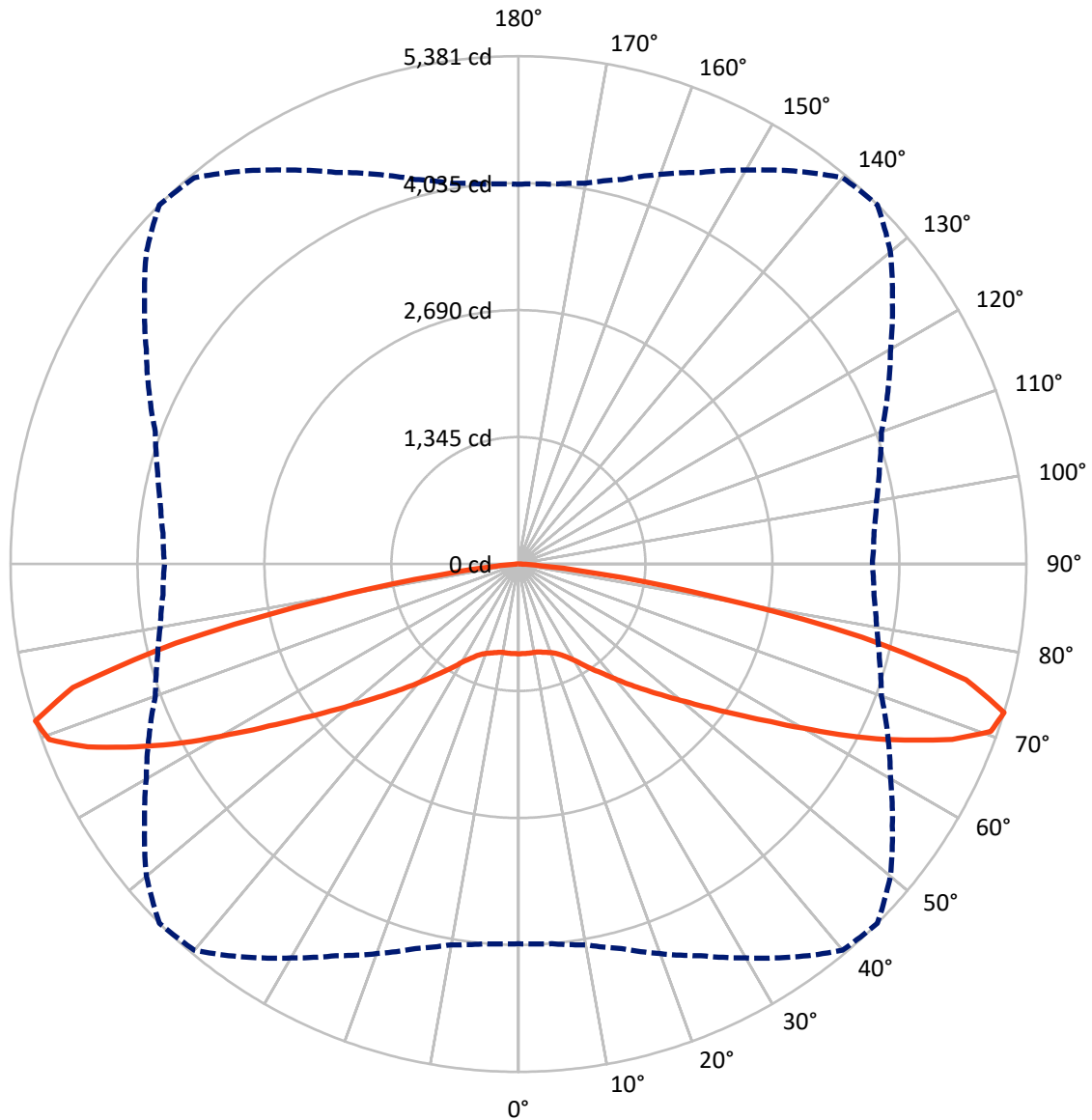


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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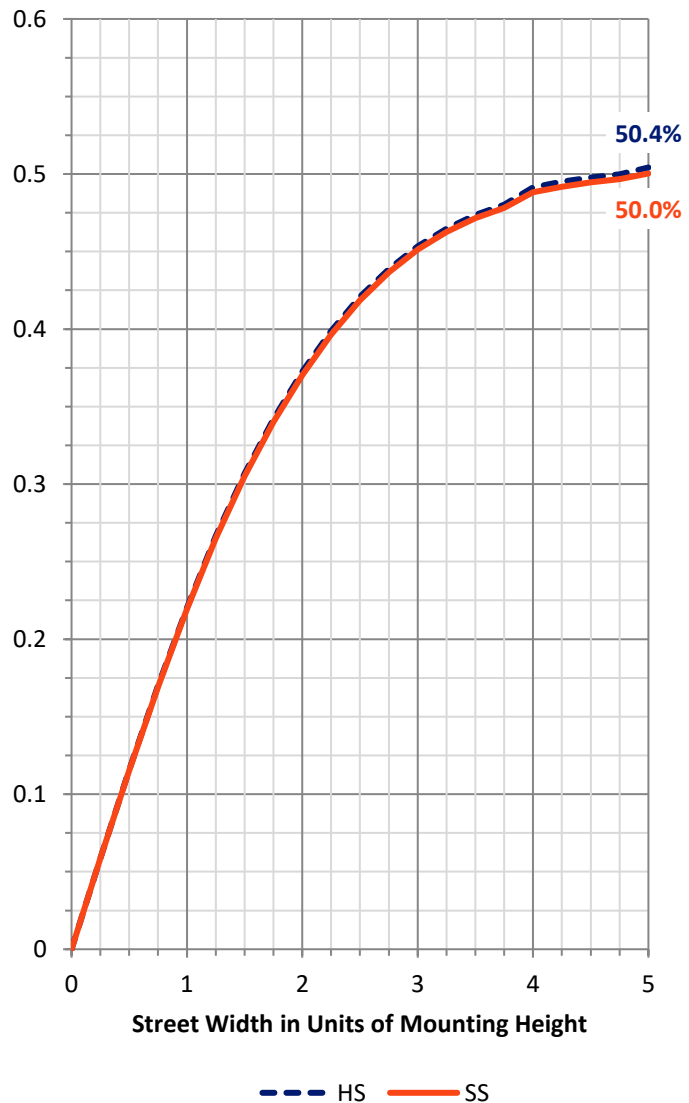
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6718.2	0.0	6718.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6718.2	0.0	6718.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	13436.5	0.0	13436.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	0.7
10°-20°	275.9	2.1
20°-30°	504.3	3.8
30°-40°	869.5	6.5
40°-50°	1486.3	11.1
50°-60°	2409.1	17.9
60°-70°	3996.6	29.7
70°-80°	3520.1	26.2
80°-90°	283.8	2.1
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°	13436.5	100.0
0°-180°	13436.5	100.0



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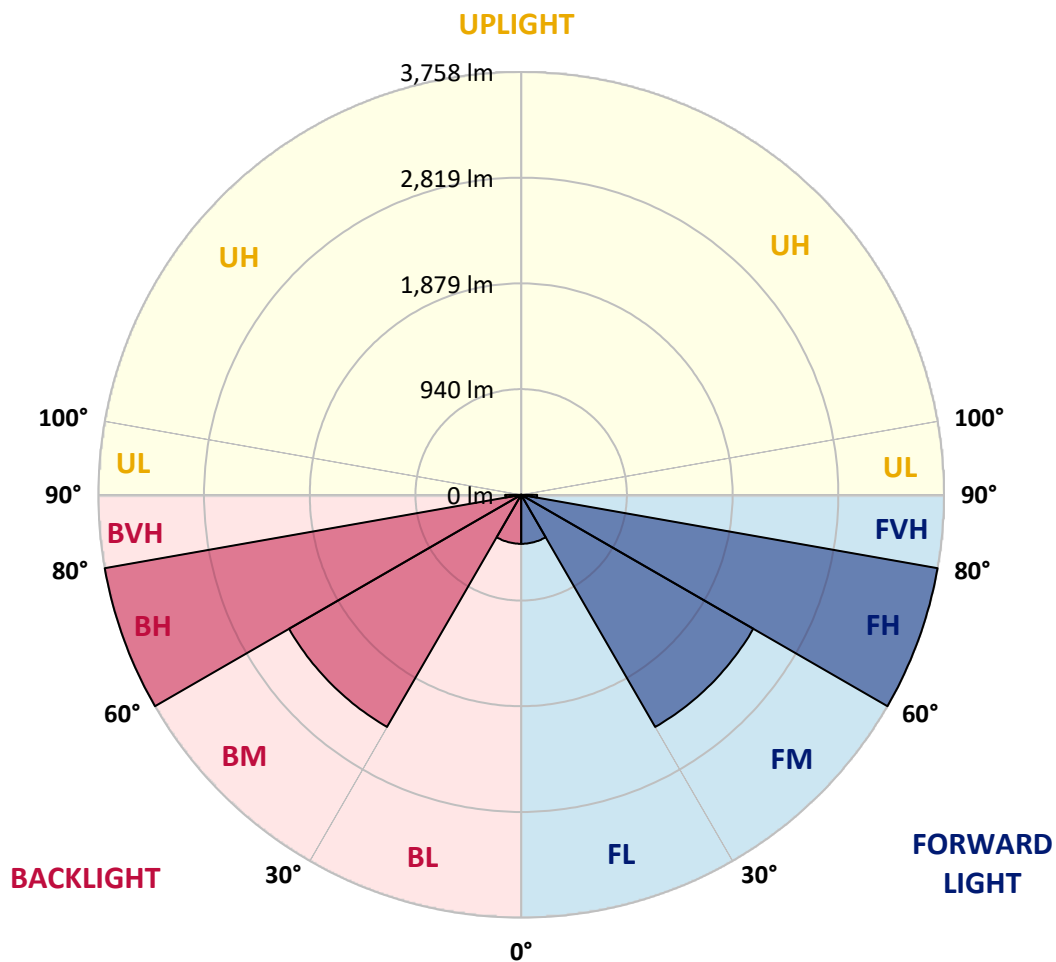
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.5	3.2			
FM (30°-60°)	2382.4	17.7			
FH (60°-80°)	3758.4	28.0			G2/5000
FVH (80°-90°)	141.9	1.1			G2/225
BL (0°-30°)	435.5	3.2	B1/500		
BM (30°-60°)	2382.4	17.7	B2/2500		
BH (60°-80°)	3758.4	28.0	B4/5000		G2/5000
BVH (80°-90°)	141.9	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6
2.5°	951.6	952.2	952.7	952.2	952.2	951.6	950.9	951.6	950.9	949.7	950.2
5°	954.5	955.8	955.8	954.5	955.2	954.5	953.3	954.0	952.7	950.9	950.9
7.5°	958.3	958.9	958.9	957.7	958.3	957.1	955.8	955.2	954.0	951.6	949.7
10°	963.8	964.5	963.8	962.7	962.7	960.7	957.7	956.4	954.0	950.2	948.4
12.5°	970.0	970.6	970.0	968.7	968.2	965.0	962.7	960.7	958.9	955.8	952.7
15°	978.7	979.8	978.7	976.2	974.3	971.8	970.6	971.2	971.8	969.5	966.2
17.5°	994.7	995.2	993.4	987.9	985.4	982.9	982.9	984.2	986.0	984.8	981.7
20°	1024.2	1022.5	1018.0	1011.3	1008.2	1003.9	1003.2	1003.9	1003.9	1003.2	1000.8
22.5°	1061.2	1060.0	1054.4	1045.7	1041.5	1039.0	1035.3	1032.2	1031.7	1029.7	1027.3
25°	1105.5	1104.9	1098.2	1090.8	1087.7	1084.7	1081.5	1077.2	1073.6	1069.3	1066.7
27.5°	1162.2	1159.8	1149.9	1146.2	1141.9	1140.0	1135.7	1130.8	1127.7	1122.3	1119.2
30°	1224.5	1224.5	1216.6	1215.2	1215.2	1210.9	1206.1	1197.4	1191.8	1186.3	1184.4
32.5°	1286.7	1287.5	1279.4	1281.8	1283.7	1286.7	1288.0	1284.9	1281.3	1280.7	1276.9
35°	1376.7	1374.2	1366.2	1368.1	1367.5	1367.0	1367.0	1373.7	1374.9	1376.2	1368.7
37.5°	1488.3	1488.3	1480.2	1480.2	1476.5	1473.0	1467.9	1472.2	1479.0	1480.9	1475.9
40°	1615.8	1620.2	1610.3	1609.8	1610.9	1599.3	1593.7	1600.4	1604.7	1612.2	1606.6
42.5°	1766.2	1763.2	1753.3	1752.1	1745.2	1741.5	1736.7	1742.2	1749.0	1753.9	1755.7
45°	1910.4	1908.0	1897.0	1897.0	1890.0	1887.0	1889.4	1898.7	1901.8	1908.5	1915.4
47.5°	2052.7	2049.8	2042.2	2045.4	2046.0	2051.5	2059.5	2068.2	2076.8	2086.0	2089.2
50°	2198.2	2198.8	2190.8	2198.2	2207.4	2222.9	2244.4	2258.6	2276.5	2288.3	2291.8
52.5°	2330.7	2333.2	2341.8	2359.0	2377.5	2407.7	2444.6	2479.2	2508.7	2528.5	2527.3
55°	2489.7	2493.3	2514.4	2543.9	2574.2	2619.7	2674.6	2735.6	2784.8	2813.2	2795.3
57.5°	2693.1	2701.1	2724.5	2764.5	2809.5	2868.6	2943.8	3035.7	3112.2	3150.4	3121.4
60°	2972.2	2977.2	3005.5	3049.8	3104.2	3177.5	3277.9	3401.2	3509.0	3559.5	3526.2
62.5°	3340.2	3349.4	3372.1	3417.2	3472.7	3555.9	3678.5	3832.6	3966.8	4037.2	3962.0
65°	3779.6	3809.2	3828.2	3873.9	3925.7	4013.7	4141.9	4307.1	4451.3	4497.5	4410.6
67.5°	4214.7	4240.4	4273.7	4326.1	4378.6	4477.8	4596.6	4757.0	4915.3	4957.2	4822.3
70°	4405.1	4419.8	4471.7	4543.1	4643.6	4760.7	4898.1	5077.9	5273.9	5308.5	5137.1
72.5°	4023.6	4038.4	4096.4	4217.7	4392.7	4578.8	4818.6	5083.0	5341.9	5380.6	5144.6
75°	3043.1	3019.1	3104.7	3265.6	3501.7	3761.1	4096.4	4475.3	4849.4	4898.1	4616.4
77.5°	1572.8	1569.6	1634.3	1834.0	2115.7	2410.8	2780.0	3208.2	3574.4	3722.2	3493.0
80°	443.1	448.1	478.8	578.1	742.5	955.8	1244.2	1645.4	1944.9	2097.7	1969.5
82.5°	173.8	187.3	199.1	217.5	239.0	270.5	361.1	537.4	721.0	861.6	705.6
85°	62.3	66.6	94.3	111.5	113.4	119.6	136.3	159.0	191.7	228.6	187.9
87.5°	23.4	26.0	30.3	49.9	49.2	44.9	54.8	57.3	43.2	39.4	48.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	951.6	951.6	951.6	951.6	951.6	951.6	951.6	951.6
2.5°	949.1	949.7	949.7	950.2	950.9	950.9	952.2	952.2
5°	949.7	949.7	948.4	949.1	948.4	948.4	949.1	949.1
7.5°	948.4	947.8	946.5	945.9	944.7	944.7	944.7	944.7
10°	946.5	945.9	944.7	944.1	943.5	943.5	943.5	943.5
12.5°	951.6	949.7	948.4	947.8	947.8	947.8	947.8	947.8
15°	964.5	960.2	957.1	957.1	957.7	958.9	958.9	960.2
17.5°	980.5	975.6	972.4	970.0	971.2	973.0	974.3	975.6
20°	999.5	997.1	992.7	990.3	990.3	992.7	994.1	994.7
22.5°	1026.0	1024.2	1022.5	1019.2	1019.2	1020.6	1023.0	1023.0
25°	1065.5	1064.3	1063.1	1060.5	1060.0	1060.0	1061.2	1062.4
27.5°	1114.8	1115.4	1114.2	1113.5	1111.7	1111.2	1113.0	1112.3
30°	1180.7	1183.8	1186.9	1184.4	1181.5	1179.6	1177.7	1175.3
32.5°	1270.2	1266.4	1263.9	1259.7	1254.2	1249.2	1245.5	1241.2
35°	1354.6	1348.4	1345.9	1349.7	1349.1	1345.9	1341.6	1337.9
37.5°	1458.0	1456.8	1458.0	1464.9	1463.6	1466.8	1458.0	1457.5
40°	1588.7	1590.0	1598.7	1606.6	1610.9	1615.2	1610.3	1605.5
42.5°	1740.3	1739.7	1742.8	1753.9	1761.2	1766.2	1755.7	1754.5
45°	1900.5	1896.2	1898.7	1908.0	1915.4	1920.8	1909.2	1909.2
47.5°	2076.8	2069.4	2061.4	2071.9	2076.3	2079.8	2070.7	2067.5
50°	2273.4	2258.0	2240.7	2245.0	2245.0	2243.8	2232.1	2231.5
52.5°	2498.9	2470.6	2439.2	2427.5	2420.8	2413.2	2392.9	2383.2
55°	2758.3	2715.8	2666.6	2636.3	2620.4	2600.1	2566.1	2556.8
57.5°	3061.7	2995.0	2910.0	2873.0	2837.2	2804.0	2766.4	2755.9
60°	3420.8	3322.9	3210.2	3141.7	3102.8	3070.9	3032.0	3030.2
62.5°	3821.5	3666.8	3539.2	3477.6	3449.2	3420.8	3383.9	3388.9
65°	4228.9	4067.3	3947.8	3897.8	3871.3	3848.0	3811.0	3816.4
67.5°	4630.7	4482.2	4350.9	4299.6	4270.2	4240.4	4207.2	4212.8
70°	4918.9	4734.7	4586.8	4473.5	4402.7	4322.5	4270.7	4257.7
72.5°	4836.5	4552.3	4317.6	4092.6	3960.7	3853.5	3780.7	3749.3
75°	4185.7	3797.4	3495.5	3219.3	3064.1	2937.7	2845.9	2788.6
77.5°	3108.4	2672.1	2315.3	1997.3	1745.9	1577.1	1458.0	1381.1
80°	1701.5	1294.2	945.9	664.9	488.7	406.2	358.7	335.8
82.5°	530.0	342.1	252.1	217.5	202.1	193.6	179.3	156.6
85°	168.8	148.0	137.4	131.2	125.1	109.1	75.2	68.5
87.5°	65.3	67.2	66.6	62.8	64.0	46.3	37.0	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)