

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: P322276

Luminaire Tested: **GAN-SA2B-750-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322276
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-SA2B-750-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 8521 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

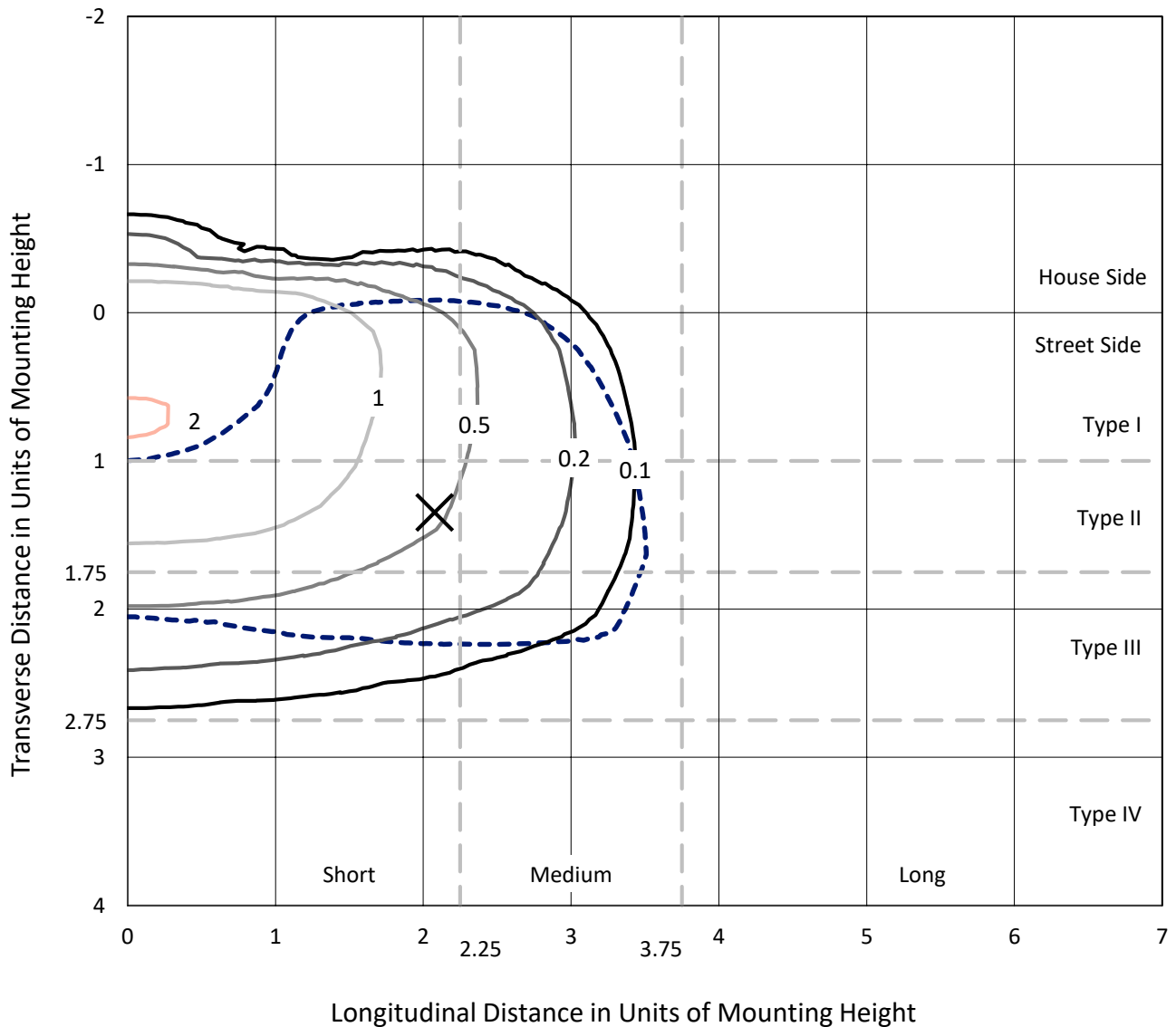
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

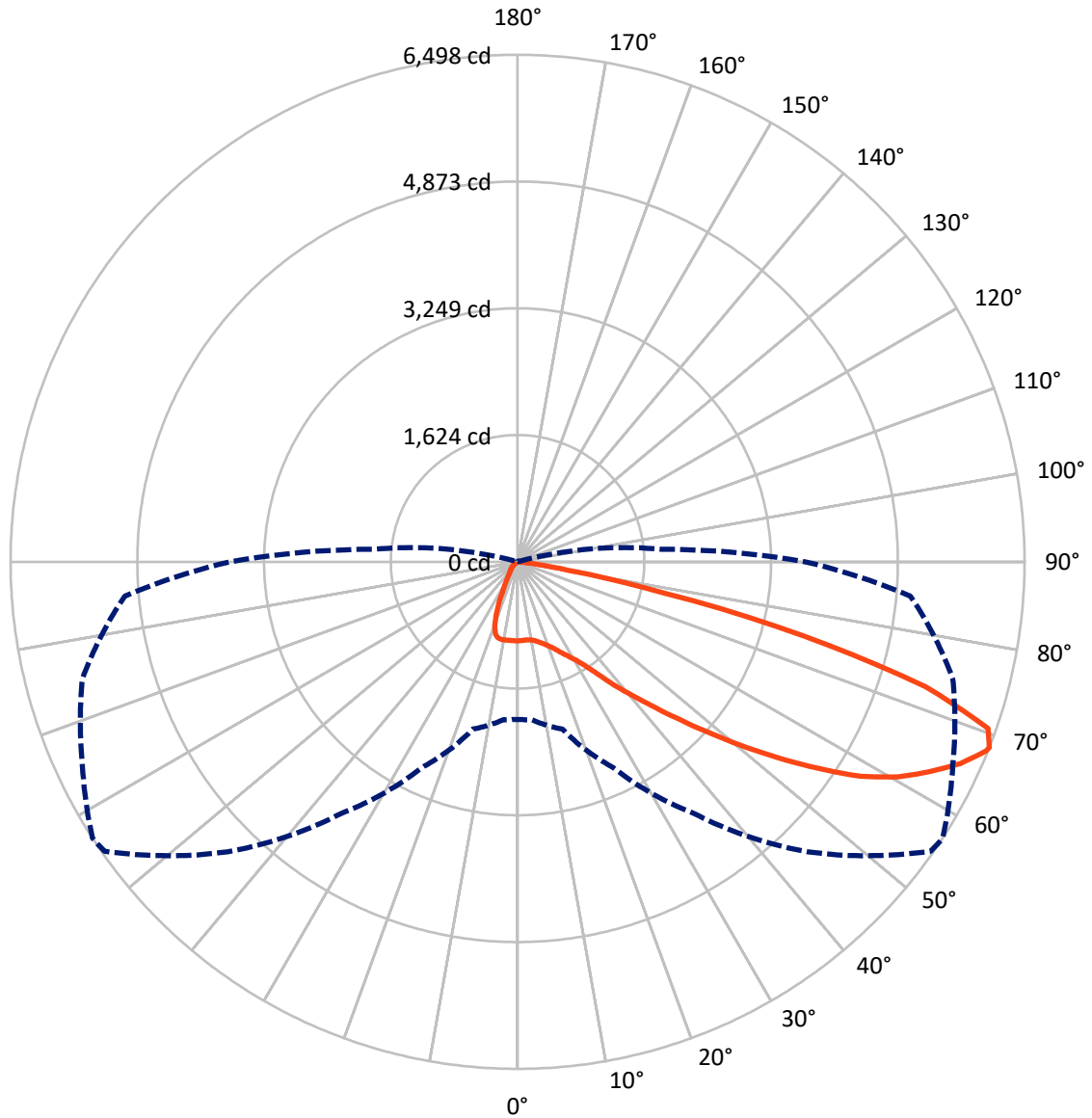
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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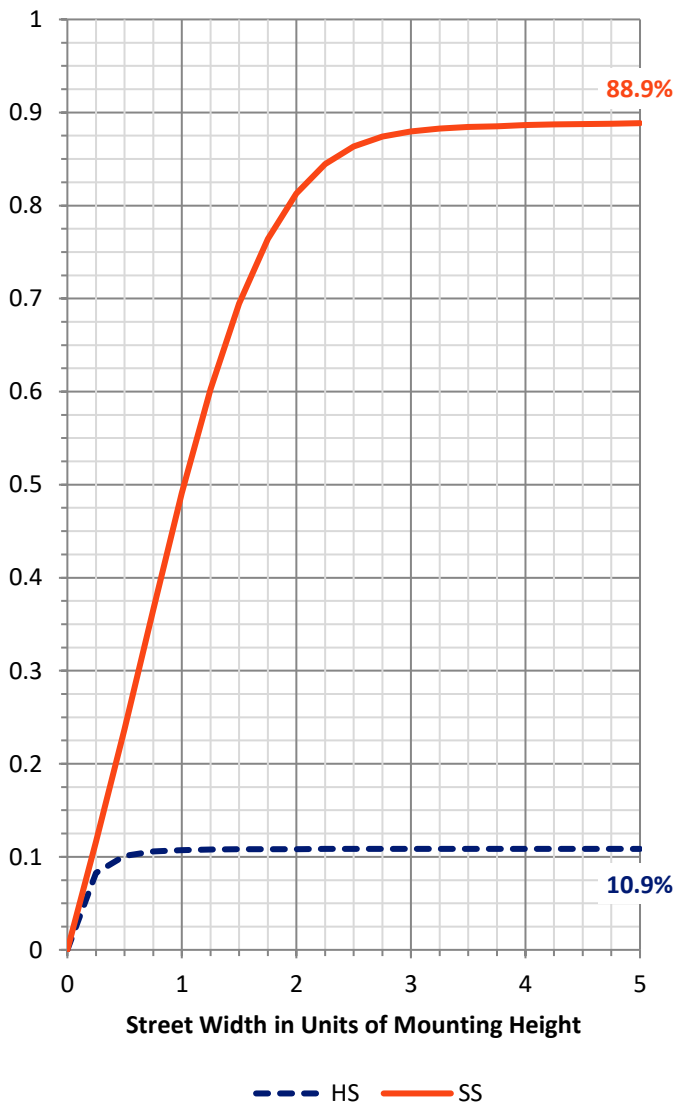
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	934.4	0.0	934.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7586.6	0.0	7586.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	8521.0	0.0	8521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	262.6	3.1
20°-30°	453.0	5.3
30°-40°	781.8	9.2
40°-50°	1337.3	15.7
50°-60°	2139.6	25.1
60°-70°	2472.0	29.0
70°-80°	944.6	11.1
80°-90°	35.4	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°	8521.0	100.0
0°-180°	8521.0	100.0

Coefficient of Utilization



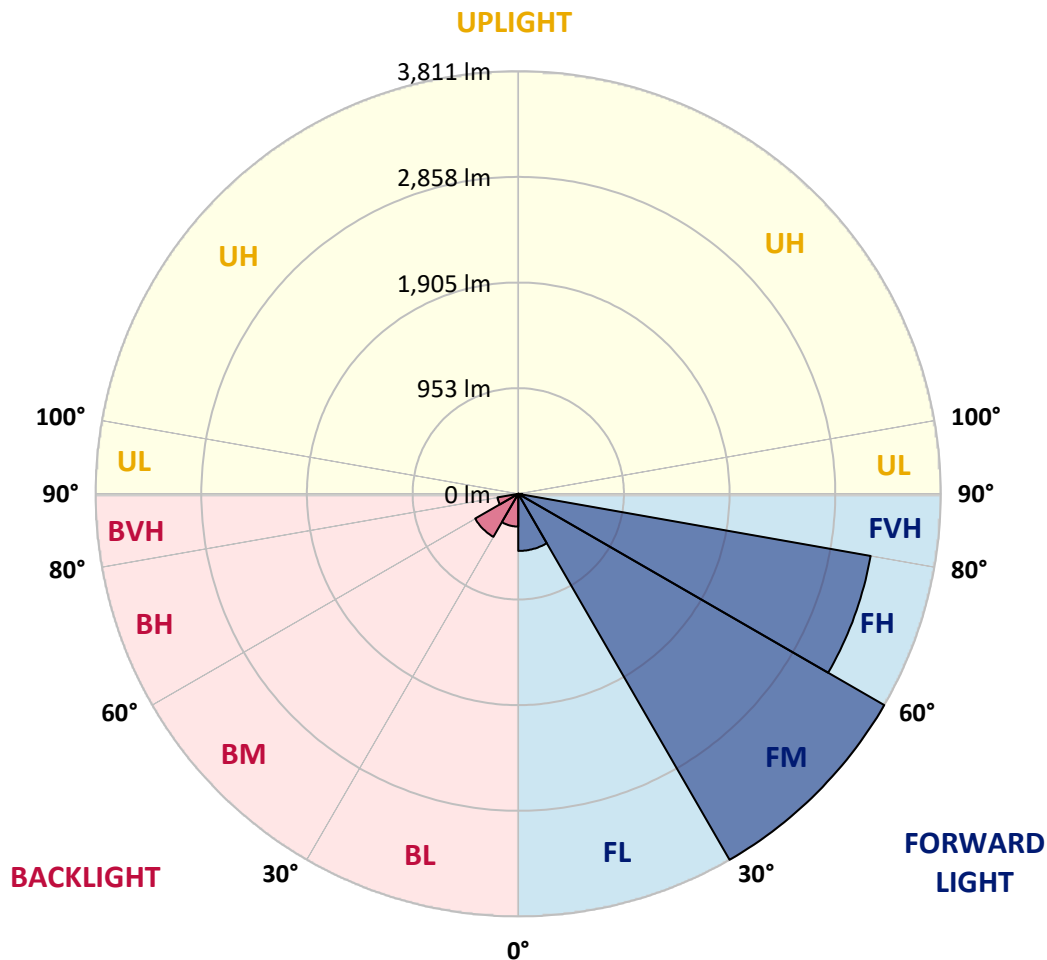
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.0	6.0			
FM (30°-60°)	3810.5	44.7			
FH (60°-80°)	3226.3	37.9			G2/5000
FVH (80°-90°)	34.8	0.4			G1/100
BL (0°-30°)	295.3	3.5	B1/500		
BM (30°-60°)	448.1	5.3	B1/1000		
BH (60°-80°)	190.3	2.2	B1/500		G1/500
BVH (80°-90°)	0.6	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°	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5
2.5°	988.7	993.2	996.4	998.4	1000.8	1006.1	1007.7	1010.1	1011.3	1011.3	1014.1
5°	949.7	954.5	961.3	967.0	978.3	992.8	1003.3	1007.3	1014.5	1021.0	1024.6
7.5°	913.4	919.0	927.1	940.4	959.7	983.1	1004.9	1010.5	1024.6	1038.3	1045.2
10°	890.0	894.5	904.9	923.9	949.3	981.9	1012.5	1019.4	1043.5	1066.5	1079.4
12.5°	882.0	886.0	896.9	918.2	949.7	987.9	1030.2	1040.3	1075.8	1109.2	1127.3
15°	893.7	894.5	906.2	926.3	957.3	1002.8	1059.7	1071.7	1116.5	1160.0	1182.5
17.5°	938.8	935.2	941.2	950.1	974.6	1022.6	1090.7	1108.8	1168.4	1219.6	1241.0
20°	1051.6	1051.6	1037.9	1013.7	1014.1	1053.2	1132.6	1153.1	1226.1	1285.3	1304.6
22.5°	1244.6	1241.0	1213.6	1154.3	1100.0	1106.0	1183.8	1210.3	1295.4	1358.6	1365.1
25°	1476.7	1472.2	1429.9	1346.5	1252.3	1191.4	1253.1	1283.7	1378.0	1434.0	1420.7
27.5°	1722.5	1718.8	1676.9	1573.4	1439.2	1327.6	1335.7	1364.7	1462.2	1517.4	1475.1
30°	1960.6	1961.8	1920.3	1813.9	1662.0	1501.3	1440.4	1457.3	1544.0	1600.0	1539.5
32.5°	2187.0	2188.6	2152.8	2033.9	1892.1	1703.1	1585.5	1581.0	1639.0	1694.2	1624.9
35°	2388.9	2392.9	2368.3	2276.1	2125.8	1927.9	1773.6	1763.1	1774.0	1836.5	1755.9
37.5°	2583.5	2585.9	2567.4	2489.6	2363.9	2174.9	2011.3	1996.4	1973.1	2021.0	1928.7
40°	2796.6	2790.6	2769.2	2698.7	2590.7	2447.7	2266.8	2241.0	2200.3	2243.0	2156.0
42.5°	2994.8	2988.0	2991.6	2911.8	2820.8	2728.1	2564.5	2520.2	2496.4	2545.6	2434.8
45°	3242.6	3239.0	3251.1	3181.8	3108.1	3040.8	2905.8	2857.5	2847.0	2904.6	2772.0
47.5°	3487.2	3496.1	3533.5	3504.1	3474.3	3415.1	3267.2	3245.5	3251.9	3321.6	3127.8
50°	3691.1	3701.6	3804.3	3838.1	3881.3	3846.6	3698.3	3685.0	3710.4	3773.3	3510.6
52.5°	3838.5	3859.9	3987.6	4143.6	4300.7	4324.1	4176.2	4164.1	4198.3	4208.0	3806.3
55°	3940.9	3959.8	4104.5	4389.7	4709.6	4810.4	4718.5	4671.8	4665.3	4569.8	4117.4
57.5°	3959.0	3957.0	4164.9	4548.9	5030.4	5290.2	5232.2	5186.3	5054.1	4904.3	4473.9
60°	3856.7	3868.4	4109.7	4604.1	5231.8	5653.3	5657.7	5598.1	5392.2	5229.4	4819.6
62.5°	3541.6	3589.1	3832.9	4459.4	5229.4	5799.5	5969.6	5924.0	5677.8	5495.7	5170.2
65°	3030.7	3047.6	3280.1	3963.9	4876.0	5738.3	6250.4	6233.5	5935.3	5754.4	5350.3
67.5°	2213.2	2176.5	2420.7	3121.4	4128.2	5381.3	6451.8	6473.2	6133.9	5807.6	5158.5
68°	2019.8	2030.7	2220.9	2913.1	3932.4	5255.2	6465.1	6497.8	6153.7	5772.9	5053.7
70°	1203.9	1224.9	1394.5	2005.7	2991.6	4541.6	6321.7	6396.2	6036.0	5415.5	4371.2
72.5°	307.4	332.4	492.8	897.7	1708.8	3199.9	5336.6	5462.7	5240.7	4393.4	2950.9
75°	126.5	133.0	176.1	295.7	636.6	1441.6	3517.4	3787.4	3633.1	2630.2	1333.6
77.5°	87.4	91.9	113.2	164.0	275.6	488.7	1724.5	1919.5	1729.3	897.7	290.9
80°	62.9	66.5	81.0	109.2	158.3	174.5	562.1	649.9	516.1	197.0	72.1
82.5°	37.5	40.3	60.4	77.8	96.3	83.4	139.8	158.7	149.5	97.9	32.2
85°	18.5	21.8	40.7	55.6	52.0	35.1	42.7	47.5	58.8	59.6	17.3
87.5°	1.2	2.4	23.8	33.4	14.5	8.1	12.5	15.3	21.0	29.4	7.3
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°	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5	1012.5
2.5°	1015.3	1015.7	1012.9	1011.7	1012.5	1007.7	1005.7	1006.5	1006.5	1007.7	1005.7
5°	1025.4	1025.4	1020.6	1014.1	1010.5	1001.2	995.2	993.6	992.4	991.6	990.0
7.5°	1047.2	1044.8	1036.3	1022.2	1010.1	990.0	974.6	966.6	962.6	960.9	959.7
10°	1082.2	1077.8	1063.7	1037.5	1009.7	973.8	940.4	916.6	896.9	888.8	884.0
12.5°	1129.4	1122.9	1099.1	1055.6	1006.9	940.8	868.3	798.6	733.7	707.1	693.8
15°	1183.8	1174.5	1137.0	1070.9	990.4	866.3	708.7	586.6	496.8	462.9	448.4
17.5°	1239.0	1226.9	1170.1	1080.6	940.8	711.9	497.2	375.5	315.5	299.4	293.7
20°	1294.6	1276.8	1198.7	1073.4	828.8	513.3	328.0	274.4	257.1	252.2	250.6
22.5°	1347.3	1319.9	1224.5	1045.2	656.3	344.5	259.5	242.6	236.9	234.1	233.3
25°	1393.3	1355.0	1247.0	958.1	464.6	260.3	233.7	228.0	220.8	215.6	216.0
27.5°	1436.4	1390.0	1260.7	814.7	309.8	222.4	216.4	208.7	195.4	187.8	187.8
30°	1488.4	1436.8	1270.8	626.9	228.0	196.6	191.8	180.1	162.0	151.9	151.9
32.5°	1566.5	1507.7	1264.3	440.0	189.0	172.8	161.6	145.5	125.7	116.0	115.6
35°	1686.2	1617.3	1218.4	288.5	166.8	150.3	132.2	112.4	95.1	87.0	86.6
37.5°	1847.4	1764.0	1115.3	206.3	149.5	129.3	107.6	85.8	72.9	67.7	67.3
40°	2056.5	1934.4	967.8	167.2	133.4	109.2	83.0	66.5	57.6	53.6	54.0
42.5°	2307.5	2116.9	790.9	144.2	117.7	89.8	64.9	52.4	46.7	43.9	43.1
45°	2586.3	2297.0	605.6	128.5	101.9	72.5	50.8	41.5	37.1	35.5	35.5
47.5°	2892.9	2472.3	443.2	114.8	85.0	56.0	40.7	33.8	30.2	29.0	28.6
50°	3171.3	2594.0	319.5	100.3	69.7	44.3	33.0	28.2	25.8	24.2	24.2
52.5°	3403.4	2632.2	235.3	84.6	56.4	35.5	27.4	24.2	21.8	20.5	20.5
55°	3607.7	2616.5	174.9	69.7	45.5	29.0	23.4	20.5	18.5	17.3	17.3
57.5°	3803.5	2565.7	130.5	56.8	36.7	23.4	19.7	17.3	15.3	14.5	14.5
60°	3963.5	2481.1	97.1	45.9	29.4	18.9	16.5	14.1	12.5	11.3	11.3
62.5°	4093.2	2387.7	71.3	37.9	23.4	14.9	12.9	11.7	9.3	8.1	8.1
65°	4094.0	2232.5	53.6	31.4	18.1	11.7	9.7	9.3	6.0	4.8	4.4
67.5°	3797.9	1924.7	41.1	27.0	14.1	8.9	7.3	7.7	3.2	2.0	1.6
68°	3690.3	1846.5	38.7	26.6	13.3	8.5	6.8	7.7	2.8	1.6	1.2
70°	3111.3	1469.0	31.0	25.8	11.7	6.4	5.6	7.7	2.4	1.2	0.8
72.5°	1990.0	852.6	23.0	20.5	8.9	4.8	3.6	6.8	2.4	0.8	0.4
75°	846.9	264.3	15.7	14.5	5.2	3.6	2.4	4.4	1.6	0.4	0.0
77.5°	178.5	59.6	9.3	8.9	3.6	2.4	1.6	1.2	0.4	0.0	0.0
80°	45.9	17.3	4.8	4.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
82.5°	14.5	6.8	2.8	2.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	1.2	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)