

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: P322556

Luminaire Tested: **GAN-SA2B-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8303 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

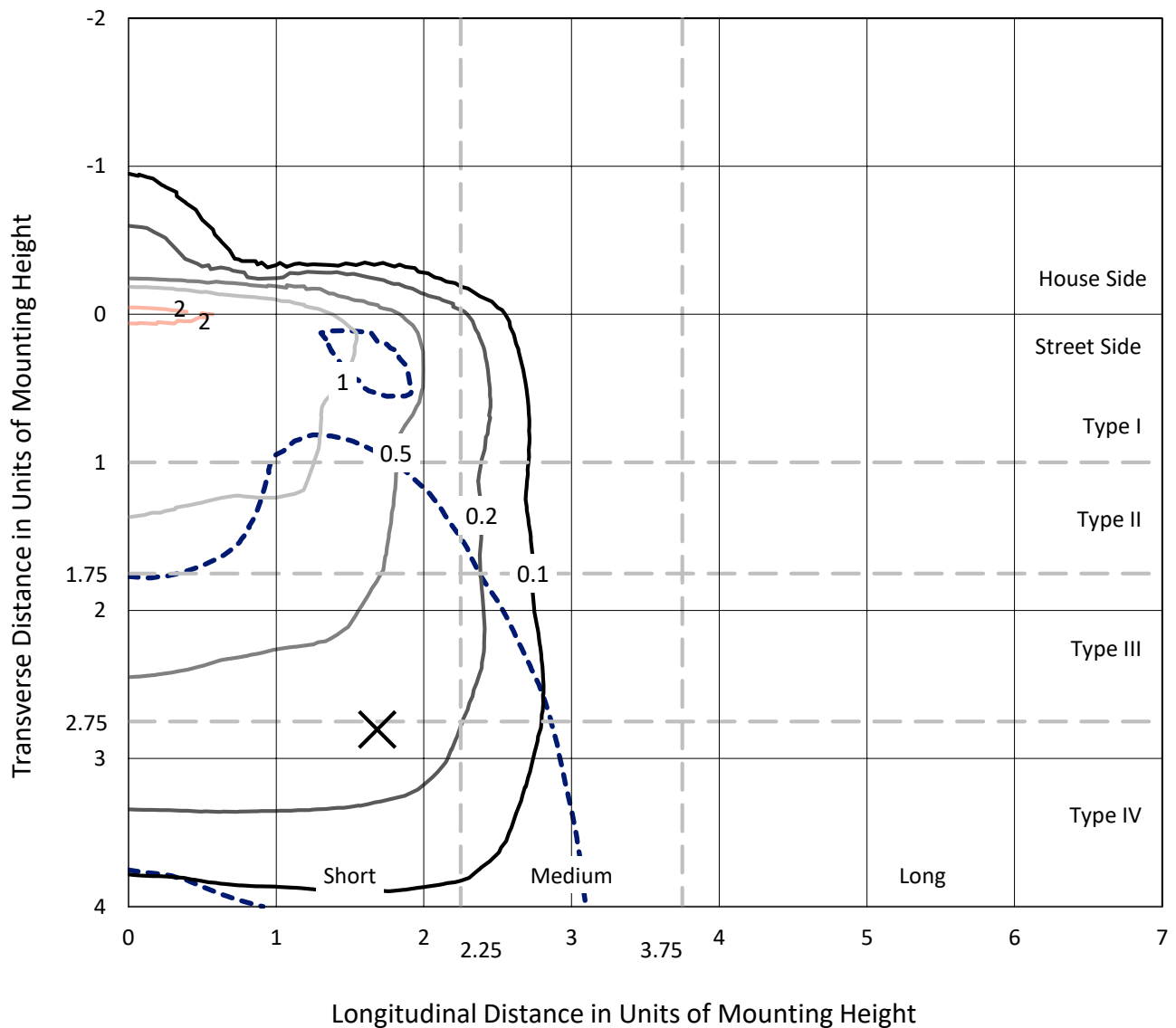
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

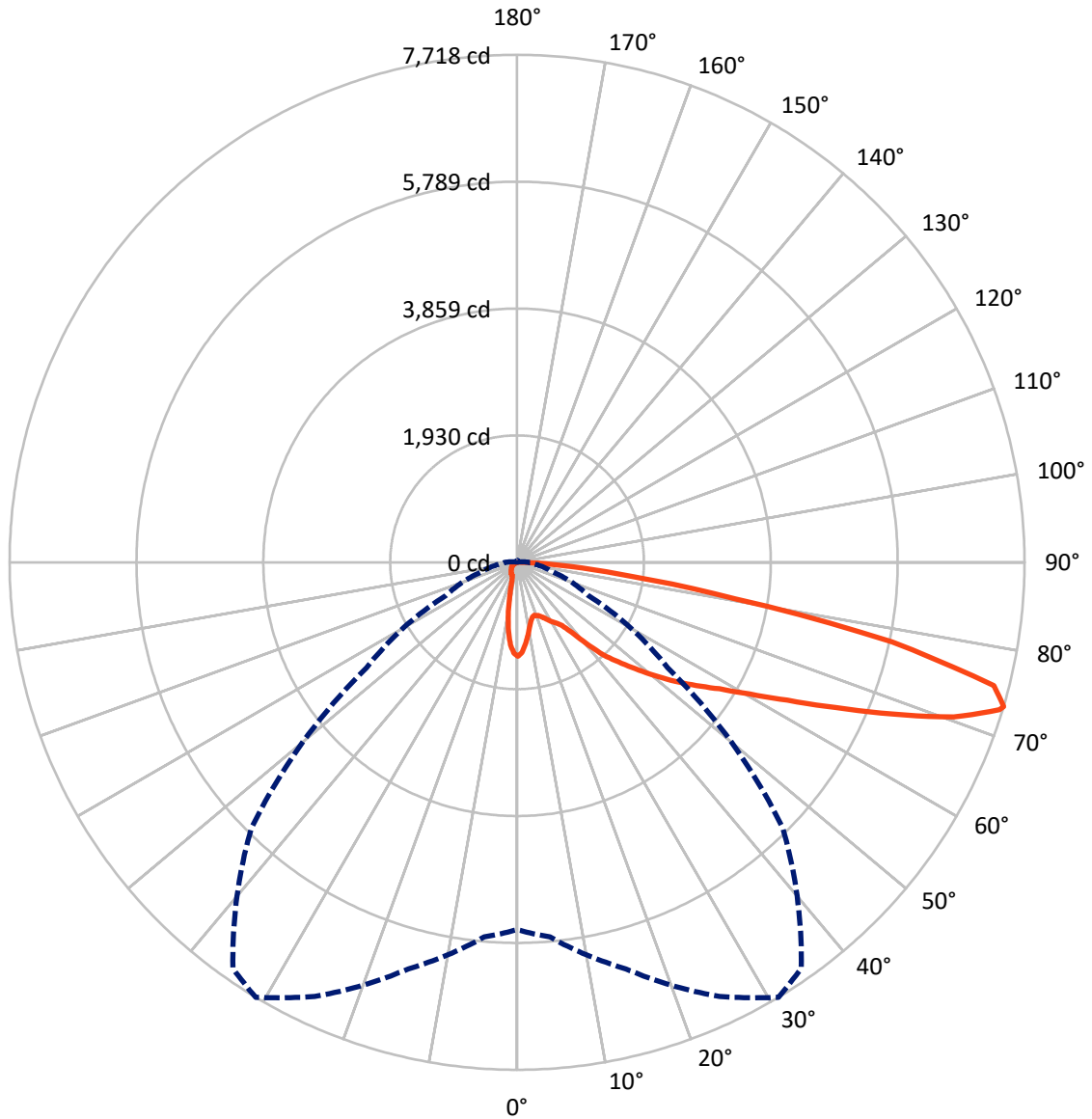
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	756.9	0.0	756.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7546.1	0.0	7546.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	8303.0	0.0	8303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	1.4
10°-20°	257.2	3.1
20°-30°	385.3	4.6
30°-40°	613.1	7.4
40°-50°	1094.8	13.2
50°-60°	1698.8	20.5
60°-70°	2258.3	27.2
70°-80°	1698.7	20.5
80°-90°	178.5	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°	8303.0	100.0
0°-180°	8303.0	100.0

Coefficient of Utilization

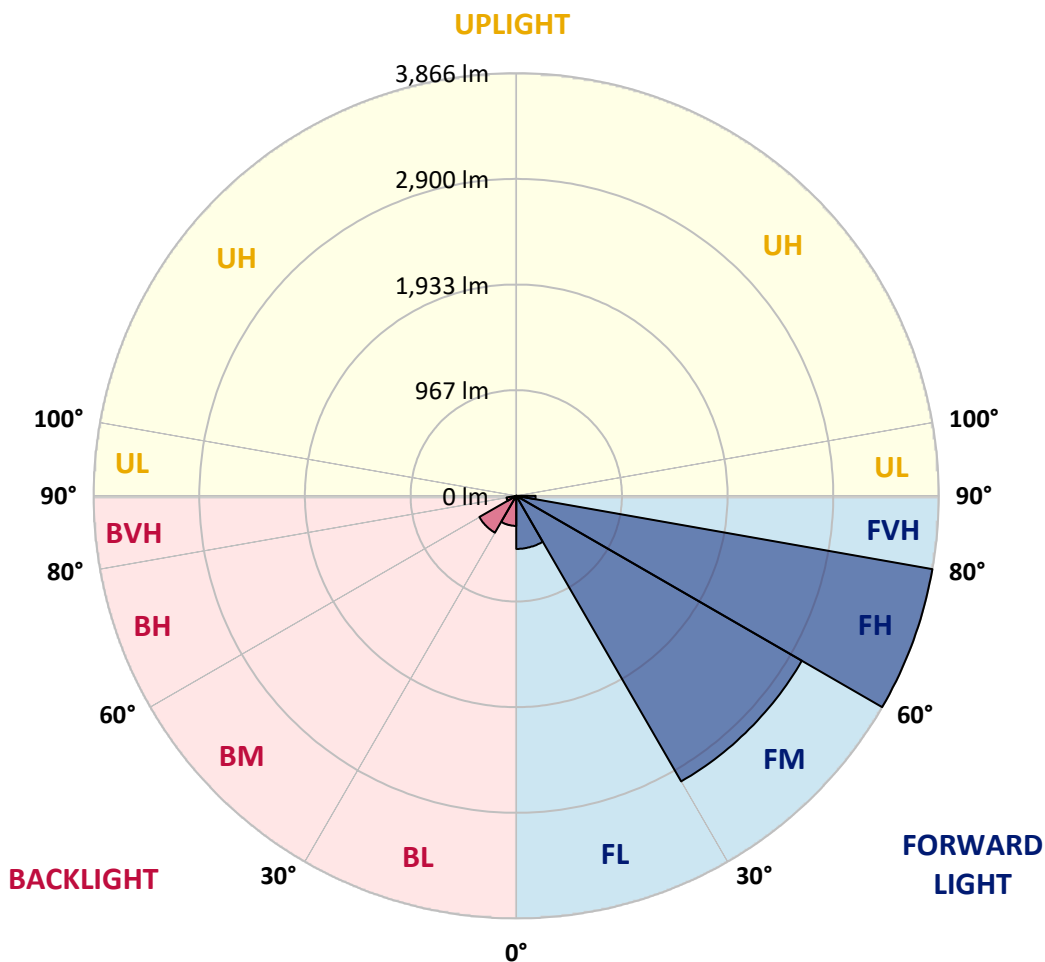


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.7	5.9			
FM (30°-60°)	3017.0	36.3			
FH (60°-80°)	3866.4	46.6			G2/5000
FVH (80°-90°)	177.0	2.1			G2/225
BL (0°-30°)	275.2	3.3	B1/500		
BM (30°-60°)	389.6	4.7	B1/1000		
BH (60°-80°)	90.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5
2.5°	1353.8	1359.5	1365.6	1366.8	1376.9	1377.4	1392.0	1403.0	1413.9	1424.5	1428.1
5°	1214.8	1224.2	1235.1	1246.1	1267.7	1276.2	1311.9	1348.5	1383.4	1416.8	1433.0
7.5°	1066.5	1077.1	1092.5	1119.8	1143.7	1160.4	1216.9	1281.9	1346.9	1408.2	1443.6
10°	931.2	941.0	957.2	986.1	1023.1	1045.8	1121.8	1212.0	1307.5	1400.5	1459.4
12.5°	845.1	850.4	859.3	890.2	923.5	949.1	1038.5	1150.2	1275.0	1400.1	1485.0
15°	829.3	830.9	823.6	837.4	863.4	888.2	978.8	1100.3	1250.2	1406.6	1518.3
17.5°	854.4	853.6	829.3	827.6	848.4	868.7	949.5	1065.7	1232.7	1421.6	1561.4
20°	892.6	889.8	847.5	839.8	861.8	880.9	947.5	1052.7	1226.2	1446.8	1613.8
22.5°	943.4	938.6	872.3	864.2	887.8	907.7	972.7	1065.3	1231.9	1480.6	1674.8
25°	1006.4	999.1	915.0	906.0	930.0	949.9	1017.8	1101.5	1249.0	1521.6	1752.0
27.5°	1077.5	1066.9	983.2	960.1	987.3	1008.0	1077.9	1156.7	1275.8	1565.1	1846.6
30°	1144.5	1130.7	1055.2	1017.0	1050.3	1073.4	1142.9	1222.6	1318.8	1632.1	1976.2
32.5°	1212.0	1196.6	1119.4	1073.8	1103.9	1129.1	1210.0	1313.2	1399.7	1734.5	2148.5
35°	1367.2	1350.9	1256.3	1181.1	1180.7	1194.9	1303.8	1437.1	1506.6	1877.1	2354.1
37.5°	1628.4	1619.1	1528.9	1386.3	1348.1	1332.3	1431.8	1585.0	1660.1	2073.3	2586.1
40°	1914.5	1906.4	1805.2	1676.0	1617.9	1578.9	1615.4	1791.0	1877.1	2313.1	2823.0
42.5°	2237.5	2198.9	2018.5	1979.9	1927.9	1898.2	1865.3	2044.9	2143.6	2573.9	3057.8
45°	2530.8	2465.8	2231.8	2173.3	2161.5	2168.8	2187.1	2386.2	2443.5	2883.9	3291.8
47.5°	2705.5	2654.4	2474.8	2418.7	2415.4	2463.8	2601.9	2771.8	2742.1	3154.1	3497.8
50°	2871.7	2825.4	2676.3	2690.1	2705.1	2771.0	3072.8	3168.3	3014.7	3399.1	3686.8
52.5°	3006.2	2935.5	2857.5	2935.1	3009.1	3115.1	3558.8	3524.2	3208.1	3594.1	3848.5
55°	3083.8	3051.7	3089.5	3167.5	3306.5	3478.7	4017.5	3820.4	3349.5	3772.1	3956.1
57.5°	3368.2	3305.2	3380.4	3447.9	3629.1	3870.0	4410.4	4041.1	3451.5	3882.2	3980.9
60°	3712.4	3661.6	3705.9	3818.0	4062.6	4345.8	4777.7	4221.0	3504.7	3952.9	3916.7
62.5°	4260.0	4193.0	4165.4	4290.9	4615.2	4924.3	5056.4	4345.8	3493.0	3921.6	3696.5
65°	4993.8	4924.3	4800.8	4914.6	5327.0	5545.2	5368.0	4372.2	3411.7	3668.5	3139.9
67.5°	5745.5	5695.1	5589.5	5781.2	6153.4	6223.7	5697.5	4308.0	3150.0	2974.5	2218.4
70°	6242.0	6220.4	6289.1	6713.3	7045.2	7024.9	5999.8	3963.0	2455.3	1829.2	1097.4
72.5°	5884.0	5987.2	6494.3	7263.4	7668.9	7503.1	5844.6	3043.2	1403.4	703.7	317.3
73°	5587.4	5719.5	6402.1	7284.1	7718.1	7536.4	5714.2	2793.3	1196.1	555.4	240.5
75°	3887.1	4049.2	5300.2	6784.0	7488.1	7180.5	4763.0	1709.7	554.2	246.2	97.1
77.5°	1887.3	2007.1	2918.4	4901.6	5823.5	5610.2	2965.2	637.1	250.3	154.0	44.7
80°	704.5	783.3	1266.8	2494.7	3365.4	3453.5	1304.2	240.9	166.6	123.9	22.8
82.5°	184.5	205.6	467.2	1112.4	1724.7	1805.2	411.2	121.5	121.9	102.0	13.8
85°	58.9	67.4	145.9	499.3	812.6	713.5	107.3	58.9	88.6	76.0	7.7
87.5°	7.3	9.3	46.3	117.4	179.2	99.5	16.7	17.5	37.8	42.3	4.5
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°	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5	1428.5
2.5°	1431.8	1429.8	1430.2	1419.6	1412.7	1398.9	1384.7	1378.2	1371.3	1368.4	1371.3
5°	1439.1	1435.5	1424.9	1392.4	1357.9	1313.2	1271.3	1239.6	1199.8	1188.8	1200.2
7.5°	1450.5	1443.2	1412.3	1346.1	1269.3	1184.0	1088.1	1018.2	960.9	923.9	937.3
10°	1467.1	1453.3	1391.2	1278.6	1141.3	990.2	854.0	748.0	672.8	642.0	640.7
12.5°	1495.2	1469.2	1365.2	1190.9	984.9	783.3	605.0	490.0	429.1	389.6	388.8
15°	1526.1	1487.9	1332.3	1085.6	802.8	561.1	389.6	302.3	262.9	250.3	248.7
17.5°	1563.8	1509.4	1289.6	956.0	612.3	371.8	254.3	229.2	227.5	226.3	226.3
20°	1611.4	1535.0	1234.7	807.7	434.3	248.2	216.2	217.8	218.6	217.0	217.4
22.5°	1666.6	1561.0	1169.3	648.5	293.8	207.6	206.8	208.8	209.7	208.8	209.2
25°	1730.8	1591.1	1089.7	481.5	212.1	197.1	199.1	201.9	204.0	204.0	204.0
27.5°	1810.5	1627.6	993.8	336.0	183.2	186.1	191.8	197.1	199.9	200.7	200.7
30°	1914.1	1673.1	878.8	230.4	166.6	171.5	182.0	192.2	197.5	198.3	198.7
32.5°	2044.9	1724.3	745.6	170.2	152.4	156.0	167.4	184.5	194.6	196.2	196.2
35°	2194.8	1783.7	602.1	148.3	142.2	143.4	152.4	171.9	189.7	194.2	194.6
37.5°	2359.0	1842.2	457.9	138.5	133.7	133.7	140.2	156.8	178.0	191.8	193.4
40°	2512.1	1877.5	321.0	130.8	126.0	126.0	131.6	143.8	163.7	184.5	188.9
42.5°	2653.5	1889.7	223.5	123.5	118.6	119.9	124.7	134.5	149.5	170.2	174.3
45°	2799.0	1887.7	162.9	115.0	111.3	115.0	118.6	126.0	136.9	148.7	149.5
47.5°	2908.7	1870.6	129.2	106.9	104.4	109.3	112.5	117.4	123.5	122.7	122.7
50°	3011.5	1829.2	104.0	95.9	97.5	103.2	104.8	106.5	106.9	99.1	98.3
52.5°	3089.5	1764.6	83.3	84.1	90.6	96.3	94.7	92.2	88.2	78.8	77.2
55°	3115.5	1640.2	65.4	69.5	80.4	87.8	81.7	76.4	68.7	60.9	59.3
57.5°	3068.4	1479.7	53.2	54.0	67.9	73.9	67.0	60.9	52.4	45.9	44.7
60°	2968.4	1301.4	43.9	40.6	52.4	57.7	53.2	47.1	39.4	34.5	34.1
62.5°	2770.1	1111.2	36.2	31.7	39.8	44.3	41.4	37.0	30.5	27.2	26.8
65°	2353.3	889.0	29.3	25.6	30.9	34.5	32.1	28.8	24.0	21.5	21.1
67.5°	1642.7	600.9	24.0	21.1	24.4	27.2	25.2	23.6	19.1	18.7	19.1
70°	792.3	289.7	19.9	17.1	19.1	21.1	20.3	19.1	18.3	21.1	24.4
72.5°	227.1	97.1	15.8	14.2	15.4	16.7	17.5	17.1	19.9	25.6	29.7
73°	174.7	78.4	15.0	13.4	14.6	16.3	17.1	16.7	20.3	26.0	29.7
75°	74.8	37.8	11.4	11.0	12.2	14.2	15.0	15.0	20.3	26.4	28.4
77.5°	33.7	20.3	7.3	8.5	10.6	11.4	12.6	12.6	16.3	20.3	20.3
80°	19.1	11.0	5.7	6.5	7.7	7.7	7.7	6.9	7.3	8.1	8.9
82.5°	12.2	7.3	4.5	5.3	4.9	4.1	3.3	3.3	2.8	3.3	4.1
85°	6.9	4.1	4.1	3.3	2.0	1.6	2.0	1.6	0.4	0.0	0.4
87.5°	4.1	2.4	1.2	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)