

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: P320155

Luminaire Tested: **GAN-SA1B-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4518 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

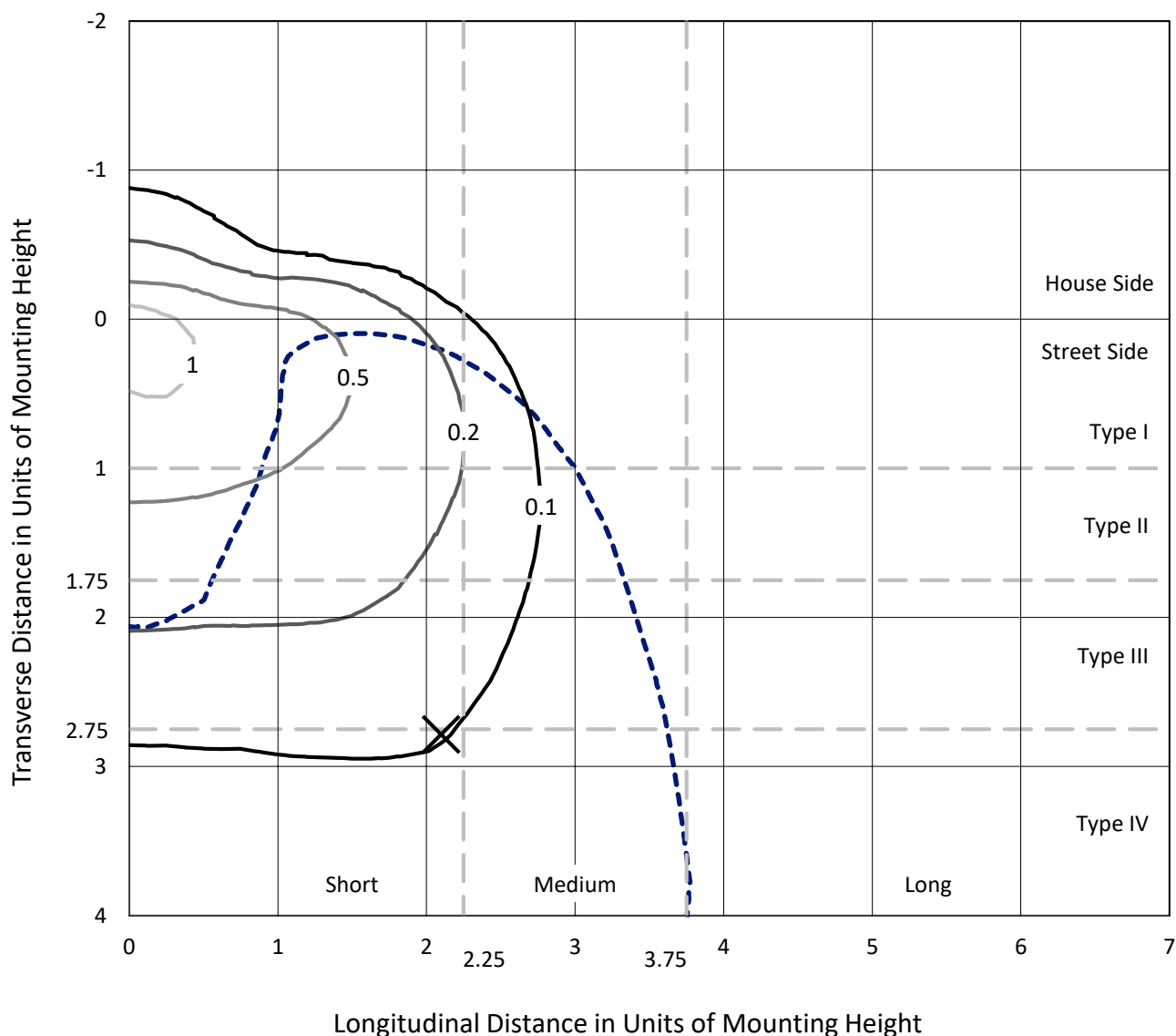
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

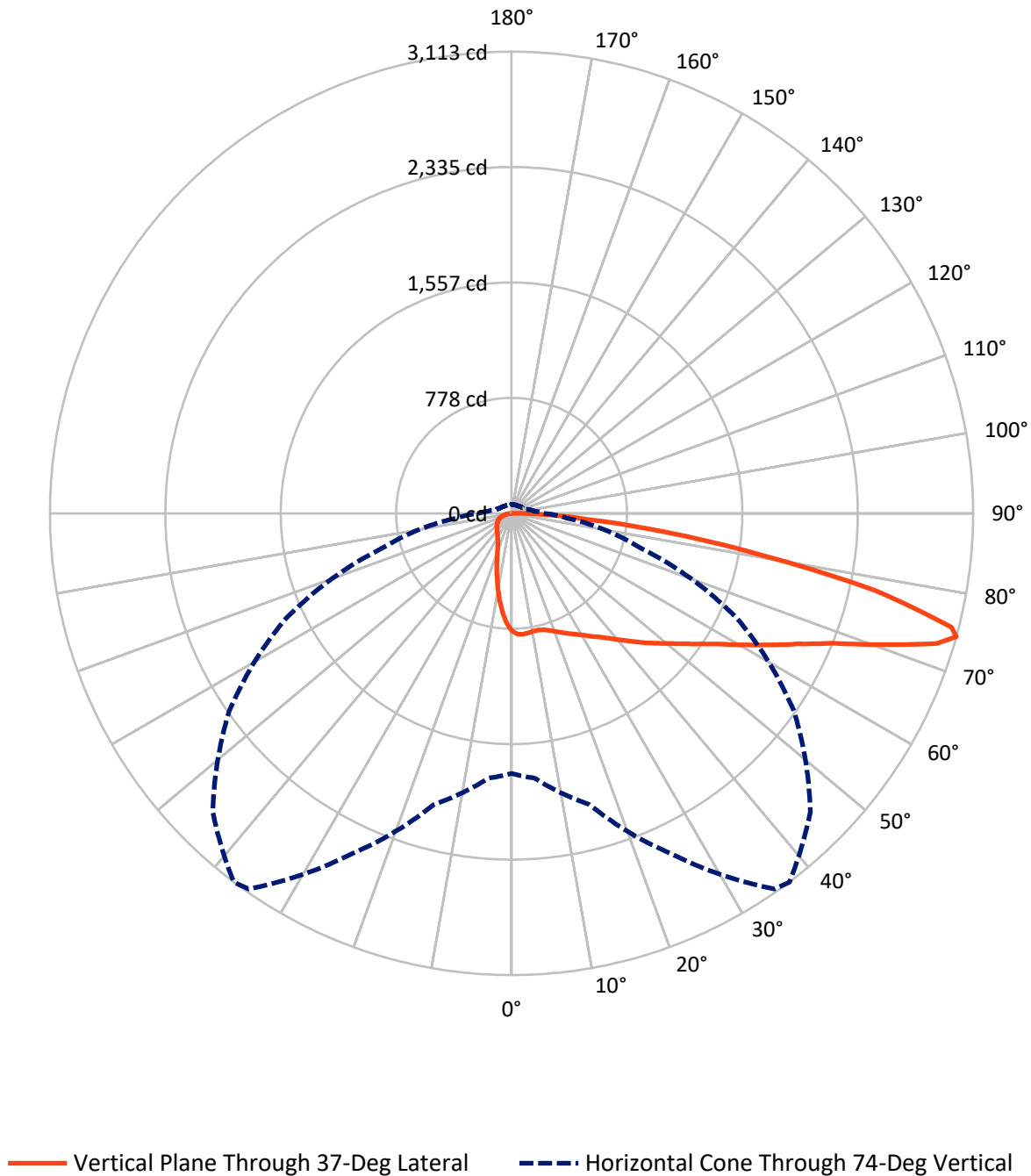
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.6	0.0	621.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	3896.4	0.0	3896.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	4518.0	0.0	4518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	1.6
10°-20°	179.7	4.0
20°-30°	276.9	6.1
30°-40°	402.6	8.9
40°-50°	592.6	13.1
50°-60°	832.1	18.4
60°-70°	1053.2	23.3
70°-80°	927.4	20.5
80°-90°	183.4	4.1
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°	4518.0	100.0
0°-180°	4518.0	100.0

Coefficient of Utilization



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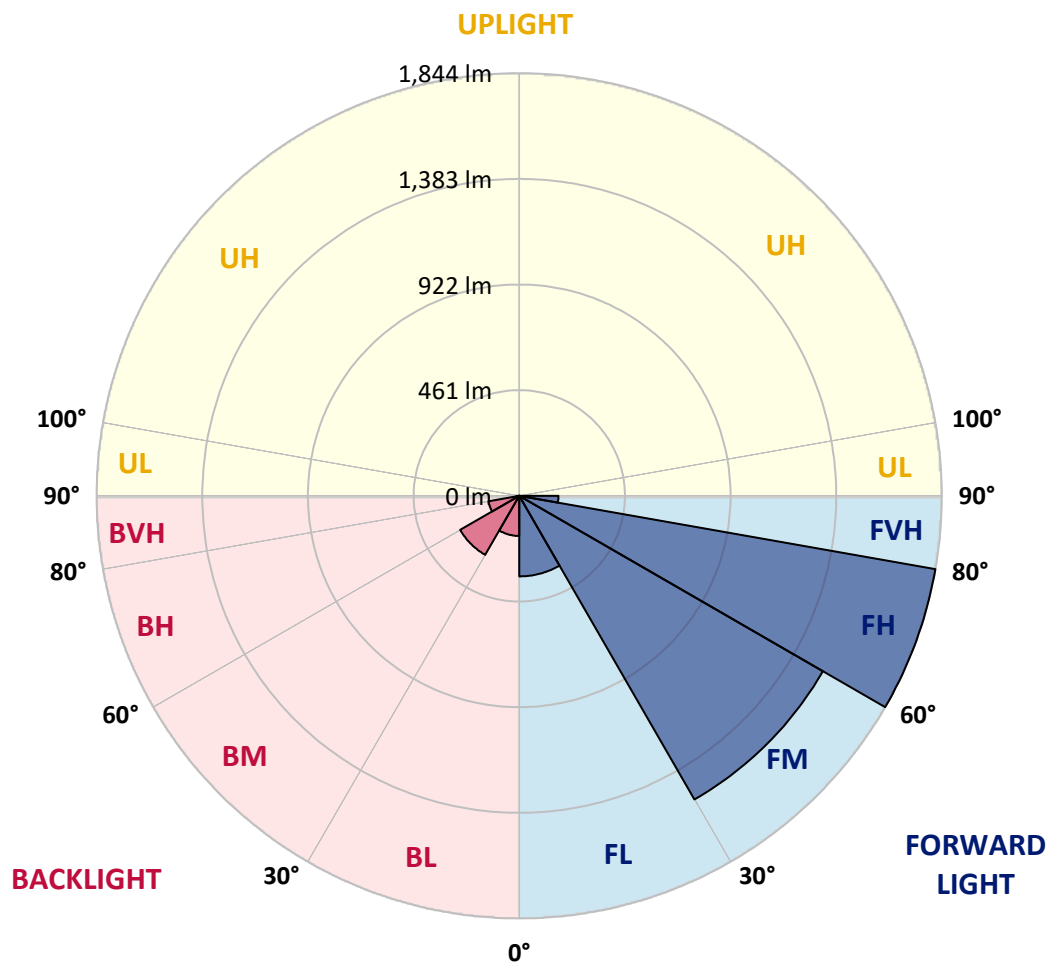
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.6	7.8			
FM	(30°-60°)	1529.8	33.9			
FH	(60°-80°)	1844.0	40.8			G2/5000
FVH	(80°-90°)	171.0	3.8			G2/225
BL	(0°-30°)	175.1	3.9	B1/500		
BM	(30°-60°)	297.5	6.6	B1/1000		
BH	(60°-80°)	136.6	3.0	B1/500		G1/500
BVH	(80°-90°)	12.4	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1
2.5°	823.3	823.4	823.3	822.0	819.0	816.4	814.4	811.3	804.6	799.6	791.9
5°	831.1	830.1	829.5	827.1	822.3	819.4	815.5	809.7	798.8	788.6	776.2
7.5°	827.4	826.3	824.9	822.0	816.6	814.2	808.6	801.1	787.9	774.6	756.7
10°	816.1	815.8	815.2	814.5	809.9	808.0	802.9	794.9	781.9	765.7	744.8
12.5°	803.5	804.3	806.9	810.2	808.1	807.2	804.0	798.6	785.2	767.7	742.6
15°	795.6	797.8	804.6	813.4	815.2	814.8	814.0	810.5	796.4	777.0	747.7
17.5°	792.9	796.5	809.6	824.1	829.2	830.3	830.6	824.5	808.8	788.3	752.9
20°	797.8	802.4	821.5	841.4	849.5	850.2	848.7	838.2	820.6	798.0	755.8
22.5°	812.8	816.9	840.8	863.2	872.4	873.4	869.1	853.2	833.0	809.4	759.8
25°	841.6	846.7	870.5	893.0	897.7	897.9	891.7	872.0	849.2	825.5	768.4
27.5°	879.1	884.2	905.7	927.7	925.1	923.7	915.3	895.5	870.4	847.6	783.6
30°	921.0	926.6	946.9	962.5	956.5	953.6	946.8	921.3	899.8	877.9	807.0
32.5°	964.3	969.4	987.2	997.9	990.2	988.9	978.6	955.4	938.2	924.0	844.9
35°	1008.7	1012.3	1029.8	1035.9	1025.7	1025.4	1022.5	1001.2	990.4	997.1	900.0
37.5°	1054.0	1055.0	1069.9	1070.3	1067.2	1068.5	1071.5	1058.2	1061.2	1082.0	971.6
40°	1094.5	1097.0	1107.8	1111.2	1116.4	1120.9	1136.0	1127.2	1150.6	1187.6	1060.7
42.5°	1124.4	1129.3	1146.7	1155.2	1172.3	1179.3	1200.6	1208.7	1255.8	1311.2	1166.7
45°	1149.7	1157.3	1185.2	1202.8	1231.6	1243.9	1274.5	1301.7	1374.7	1445.4	1278.3
47.5°	1177.1	1186.8	1221.6	1255.4	1294.5	1308.3	1363.9	1404.6	1501.6	1580.3	1383.5
50°	1217.3	1224.8	1258.9	1311.9	1360.7	1378.5	1455.4	1513.8	1630.5	1708.9	1474.7
52.5°	1273.5	1270.6	1299.4	1373.8	1439.3	1461.3	1553.1	1630.0	1761.1	1825.3	1551.7
55°	1330.0	1325.2	1345.4	1438.5	1531.0	1554.1	1660.7	1746.6	1885.4	1930.0	1610.7
57.5°	1392.9	1383.8	1400.8	1511.6	1635.4	1662.9	1781.2	1870.6	2007.6	2014.6	1648.3
60°	1457.6	1445.4	1464.5	1602.1	1768.0	1800.4	1922.2	1991.6	2122.9	2082.4	1660.4
62.5°	1514.3	1505.7	1535.1	1703.2	1917.4	1953.1	2060.6	2120.2	2236.5	2110.6	1616.8
65°	1563.8	1565.2	1616.1	1816.8	2084.0	2122.1	2219.5	2278.7	2325.9	2093.9	1514.8
67.5°	1622.8	1630.9	1717.8	1966.4	2293.8	2335.5	2450.5	2451.5	2375.9	1995.9	1313.9
70°	1708.9	1725.6	1857.7	2174.0	2592.0	2649.3	2738.1	2553.0	2305.7	1730.1	1033.8
72.5°	1785.3	1816.5	2006.5	2411.4	2955.5	2999.0	2906.3	2494.5	2012.4	1296.6	644.1
74°	1754.3	1793.0	2033.6	2528.4	3092.4	3113.2	2849.5	2323.5	1677.9	897.9	374.3
75°	1687.4	1729.5	1994.1	2527.3	3075.0	3063.4	2712.3	2128.3	1381.9	612.4	249.1
77.5°	1361.8	1406.2	1680.3	2166.0	2521.4	2510.4	2083.6	1427.7	605.2	200.8	126.5
80°	791.8	825.7	1043.1	1375.5	1700.2	1720.1	1370.3	706.5	238.1	112.8	85.8
82.5°	351.7	375.1	503.9	702.2	1026.0	1051.6	717.6	370.2	147.1	68.6	51.6
85°	230.8	248.1	305.9	334.4	488.6	506.1	351.2	288.2	97.1	37.7	37.9
87.5°	166.0	182.7	227.3	198.5	224.2	212.3	191.1	266.7	39.0	21.5	12.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1	796.1
2.5°	788.6	786.0	780.3	769.5	763.4	758.3	749.9	745.0	742.7	742.6	743.5
5°	769.0	763.1	748.3	730.2	715.7	702.5	686.1	676.2	669.2	665.1	666.2
7.5°	746.2	737.0	713.8	684.8	661.6	636.0	610.6	595.5	583.8	575.0	576.6
10°	730.6	717.9	684.0	642.3	603.6	566.4	531.6	510.7	494.2	481.4	482.4
12.5°	725.4	708.2	661.3	605.6	551.3	500.4	454.8	422.9	405.8	391.3	392.5
15°	726.2	703.1	642.2	572.5	504.2	440.0	384.8	347.4	324.3	314.3	314.5
17.5°	726.8	697.2	622.1	537.0	457.5	383.7	323.7	285.8	264.0	254.8	255.0
20°	724.8	687.7	597.3	496.2	408.8	332.0	273.9	241.7	225.2	218.0	218.0
22.5°	722.1	676.4	569.3	455.3	360.8	287.1	238.2	213.7	204.2	199.4	199.3
25°	723.3	667.9	540.6	413.3	316.5	251.3	214.5	198.3	191.9	188.9	188.7
27.5°	730.2	664.0	514.2	371.4	277.9	224.4	198.6	187.2	183.0	181.1	181.1
30°	742.6	664.0	486.7	335.8	245.7	204.5	186.4	178.6	175.7	174.4	174.4
32.5°	764.2	667.6	460.1	300.5	220.1	188.9	176.2	170.9	168.7	168.1	168.1
35°	801.5	680.0	434.2	267.0	199.4	176.2	166.5	163.4	161.9	161.7	162.2
37.5°	853.8	705.3	409.8	242.4	184.8	165.8	158.4	156.0	155.0	155.8	156.4
40°	919.7	739.7	387.7	220.1	173.6	157.6	150.9	149.3	148.8	149.9	150.9
42.5°	999.3	786.2	369.5	204.0	165.0	150.6	144.5	142.6	142.1	143.4	144.7
45°	1085.4	836.2	356.8	192.1	158.4	145.3	138.9	136.9	135.9	136.5	138.0
47.5°	1163.7	883.4	351.7	183.7	152.0	140.8	134.0	131.5	129.9	129.5	130.7
50°	1229.7	918.6	354.1	178.6	146.9	135.9	129.2	126.4	124.0	122.5	123.3
52.5°	1277.8	940.7	356.3	176.3	142.9	130.5	124.0	121.3	118.1	115.7	115.7
55°	1312.6	945.8	351.4	174.6	139.9	124.6	118.1	115.5	112.4	109.7	109.3
57.5°	1326.3	931.5	333.1	172.0	137.8	119.0	111.9	110.0	107.3	104.1	103.9
60°	1307.9	887.2	297.8	166.6	135.1	114.4	105.7	104.4	103.1	100.1	99.9
62.5°	1233.7	790.2	252.1	155.6	129.7	109.5	99.9	100.6	100.7	98.7	98.4
65°	1099.2	656.8	207.5	141.3	121.6	103.6	94.1	97.1	98.8	98.5	98.0
67.5°	903.8	511.2	175.9	126.2	110.9	95.5	87.7	91.2	92.6	93.7	93.4
70°	670.8	360.5	145.5	110.3	98.0	85.9	79.4	81.2	80.2	81.5	82.0
72.5°	374.0	216.3	118.6	94.4	84.7	74.8	70.2	69.9	67.8	67.8	67.8
74°	224.4	158.7	104.2	84.5	76.5	67.5	63.5	62.1	60.2	60.3	60.2
75°	180.5	136.4	95.6	78.0	70.8	63.2	59.2	57.3	55.9	55.9	55.7
77.5°	113.9	103.6	77.0	62.1	56.7	52.0	49.3	46.8	46.8	46.6	46.5
80°	86.1	82.4	60.0	46.9	43.4	39.9	38.2	37.1	37.1	37.6	37.4
82.5°	59.0	62.1	42.2	32.8	31.0	28.5	28.2	28.3	27.9	27.2	27.1
85°	43.1	46.6	28.5	20.7	18.9	17.3	18.6	19.3	18.5	17.0	16.4
87.5°	16.6	30.6	15.3	8.6	8.0	6.8	8.0	8.3	8.9	7.0	7.2
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)