

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: P319805

Luminaire Tested: **GAN-SA1C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5444 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

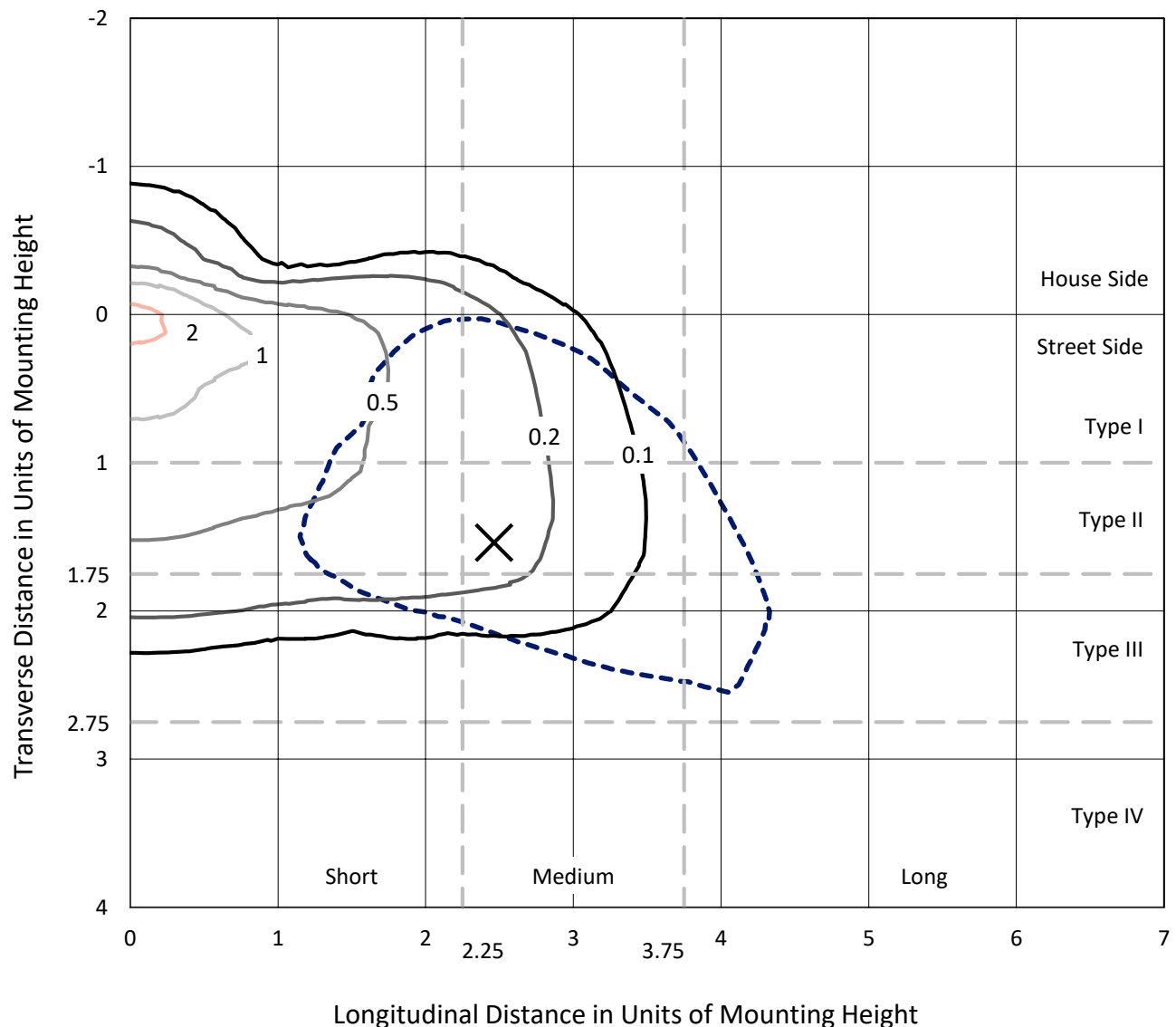
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

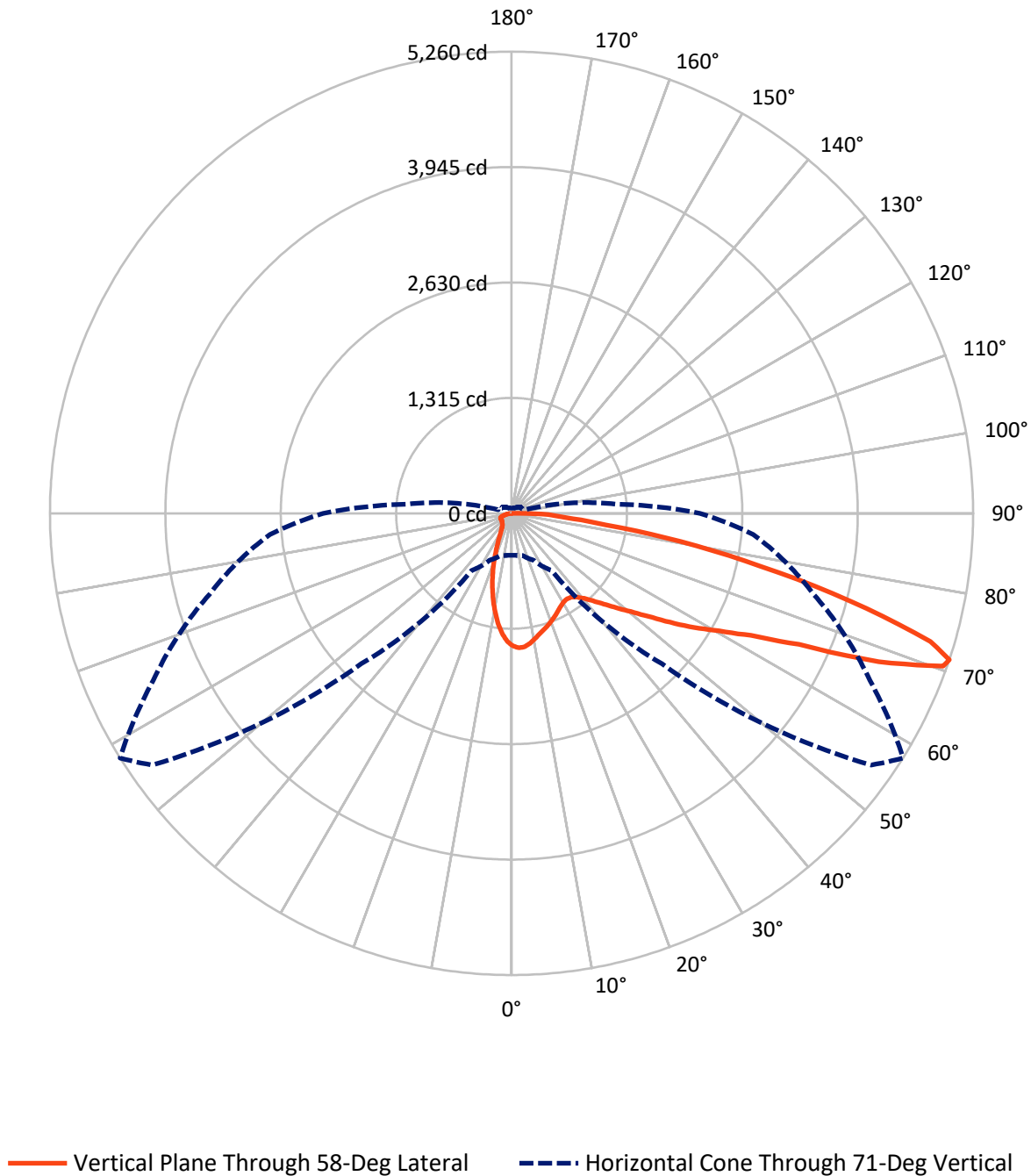
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	813.9	0.0	813.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4630.1	0.0	4630.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	5444.0	0.0	5444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.4
10°-20°	289.3	5.3
20°-30°	367.7	6.8
30°-40°	468.4	8.6
40°-50°	664.2	12.2
50°-60°	1027.9	18.9
60°-70°	1399.4	25.7
70°-80°	933.6	17.1
80°-90°	163.2	3.0
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°	5444.0	100.0
0°-180°	5444.0	100.0

Coefficient of Utilization



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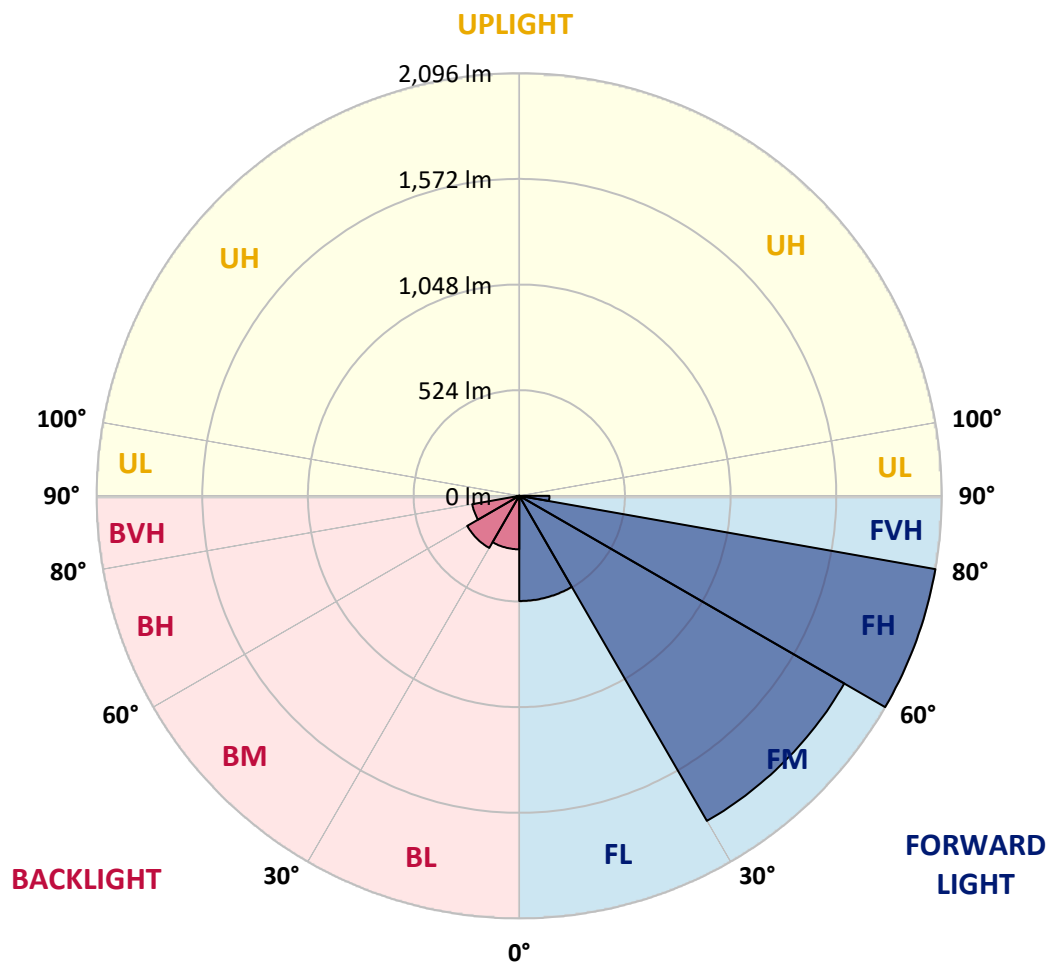
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.9	9.6			
FM	(30°-60°)	1862.1	34.2			
FH	(60°-80°)	2096.4	38.5			G2/5000
FVH	(80°-90°)	149.7	2.7			G2/225
BL	(0°-30°)	265.3	4.9	B1/500		
BM	(30°-60°)	298.5	5.5	B1/1000		
BH	(60°-80°)	236.6	4.3	B1/500		G1/500
BVH	(80°-90°)	13.6	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1548.4	1546.3	1547.0	1545.5	1541.9	1538.3	1533.0	1534.0	1526.6	1515.6	1501.9
5°	1519.2	1518.4	1524.1	1527.3	1530.0	1527.9	1526.4	1528.3	1517.5	1502.3	1478.6
7.5°	1457.9	1449.6	1456.8	1467.6	1477.8	1485.6	1495.8	1497.2	1490.3	1474.4	1443.3
10°	1370.9	1362.9	1373.5	1390.4	1410.9	1429.5	1450.1	1453.9	1455.3	1440.8	1403.1
12.5°	1280.6	1274.5	1285.2	1308.9	1342.8	1371.4	1404.4	1410.1	1421.9	1412.2	1365.9
15°	1199.8	1197.5	1210.4	1233.8	1272.8	1316.6	1364.2	1374.7	1394.6	1391.3	1336.9
17.5°	1130.0	1129.5	1139.3	1163.8	1207.0	1262.4	1324.2	1341.9	1371.4	1375.2	1313.0
20°	1078.1	1076.9	1083.8	1101.8	1146.3	1209.1	1281.0	1305.3	1347.9	1361.2	1288.4
22.5°	1050.2	1050.0	1050.2	1058.7	1095.1	1153.5	1238.9	1268.5	1325.0	1350.0	1261.1
25°	1045.5	1044.9	1040.7	1039.8	1060.4	1107.1	1197.2	1229.8	1303.2	1342.2	1235.1
27.5°	1057.8	1058.5	1053.0	1044.1	1048.3	1076.6	1160.9	1195.8	1285.7	1340.7	1217.1
30°	1083.4	1083.0	1078.3	1069.0	1060.8	1065.2	1135.2	1170.0	1274.0	1347.4	1204.7
32.5°	1111.6	1113.7	1112.8	1107.7	1095.5	1078.1	1127.4	1161.5	1270.6	1363.3	1199.4
35°	1145.6	1147.9	1154.7	1158.7	1144.4	1116.4	1144.1	1173.6	1280.4	1393.2	1208.0
37.5°	1177.8	1183.7	1202.9	1219.7	1207.6	1176.3	1188.4	1209.5	1310.9	1440.5	1230.9
40°	1215.0	1220.1	1251.4	1287.2	1285.3	1252.9	1259.9	1274.0	1364.8	1508.2	1272.4
42.5°	1251.6	1261.8	1307.1	1358.0	1372.6	1343.9	1355.1	1362.5	1440.7	1597.9	1344.9
45°	1300.3	1311.3	1374.3	1435.5	1469.7	1453.5	1471.4	1474.2	1536.0	1720.0	1450.1
47.5°	1374.1	1386.6	1460.0	1524.3	1576.4	1578.1	1607.5	1606.4	1655.1	1859.7	1582.7
50°	1489.0	1507.0	1567.1	1627.3	1690.6	1725.9	1765.1	1759.6	1797.9	2008.6	1735.3
52.5°	1639.6	1647.9	1692.5	1736.9	1815.6	1894.6	1951.0	1946.0	1959.9	2161.6	1908.7
55°	1795.6	1801.9	1820.3	1844.6	1950.4	2079.3	2198.4	2190.7	2155.6	2320.6	2079.9
57.5°	1936.0	1948.7	1961.4	1971.4	2086.2	2272.4	2451.6	2452.2	2368.0	2492.0	2256.8
60°	1957.8	1969.0	2053.0	2132.2	2318.5	2529.9	2722.6	2716.9	2587.8	2678.0	2454.1
62.5°	1730.6	1755.8	1896.2	2107.0	2542.2	3001.0	3068.3	3061.3	2850.6	2907.3	2683.7
65°	1240.2	1268.8	1438.2	1755.1	2433.8	3520.0	3692.2	3597.7	3209.0	3189.3	2952.6
67.5°	715.5	722.3	795.7	1050.2	1853.1	3547.1	4644.0	4511.8	3765.6	3509.2	3084.2
70°	529.1	528.9	546.3	646.3	1002.8	2895.0	5096.6	5215.1	4351.5	3614.4	2898.2
71°	478.4	479.0	498.5	588.2	794.2	2423.1	5000.5	5259.9	4505.9	3562.5	2763.5
72.5°	409.2	411.1	438.2	527.6	668.1	1671.1	4586.3	4991.4	4579.1	3434.3	2552.9
75°	310.4	314.8	352.3	444.7	610.6	847.5	3366.0	3985.7	4067.8	3030.4	1896.9
77.5°	221.5	226.4	268.9	374.0	580.5	638.7	2254.2	2907.3	2993.6	1942.0	855.6
80°	140.0	145.8	177.9	297.5	545.4	606.5	1416.6	1954.2	1632.4	621.4	217.7
82.5°	82.1	86.7	110.4	194.4	445.5	584.1	833.4	1083.2	635.3	187.7	99.0
85°	47.6	49.7	68.8	123.8	323.5	551.3	612.3	605.5	275.7	91.8	46.8
87.5°	22.2	24.7	40.8	64.7	179.6	399.6	483.9	418.1	171.4	43.0	22.0
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°	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4	1508.4
2.5°	1495.3	1492.0	1478.6	1466.6	1454.1	1437.8	1419.8	1417.5	1406.5	1408.6	1404.8
5°	1465.7	1457.5	1425.1	1395.7	1361.0	1329.9	1296.2	1280.6	1258.2	1256.7	1251.0
7.5°	1423.4	1408.2	1358.0	1302.2	1246.5	1193.4	1140.8	1106.3	1071.1	1056.1	1054.7
10°	1375.8	1350.0	1276.0	1193.6	1113.2	1035.6	960.5	904.9	854.9	831.2	830.2
12.5°	1330.7	1292.5	1191.1	1078.8	968.8	868.3	765.4	692.4	629.6	608.5	599.6
15°	1292.4	1238.7	1108.4	964.9	831.4	691.8	574.6	497.8	439.8	419.7	415.9
17.5°	1255.2	1186.2	1023.6	849.8	688.4	535.0	417.6	360.5	329.6	321.4	321.2
20°	1218.2	1132.1	935.1	732.0	550.1	400.1	321.1	295.5	285.0	284.1	282.6
22.5°	1176.3	1074.8	842.0	613.8	429.3	314.6	272.9	262.6	261.3	264.7	264.7
25°	1137.0	1018.0	747.5	498.2	333.9	262.5	243.7	241.6	245.2	251.3	251.8
27.5°	1100.4	963.2	655.4	395.4	267.6	231.2	223.4	225.9	232.3	239.3	239.5
30°	1070.3	911.4	565.9	311.6	226.0	207.8	206.5	211.4	218.5	224.0	225.3
32.5°	1047.0	867.2	479.4	250.5	198.9	190.4	191.5	195.7	200.1	203.1	205.2
35°	1036.2	829.3	399.6	211.3	181.7	176.9	178.4	180.7	182.6	184.9	186.6
37.5°	1038.1	799.9	328.3	186.8	170.1	167.6	167.6	167.6	167.6	168.8	169.0
40°	1055.7	783.0	270.2	171.2	162.3	159.7	157.6	155.7	154.2	154.9	154.6
42.5°	1100.8	781.5	227.8	161.4	156.1	151.7	147.5	144.9	143.0	143.7	144.1
45°	1177.4	800.4	199.1	154.4	150.2	143.6	138.2	135.4	134.1	136.5	136.9
47.5°	1276.6	841.8	181.7	149.2	144.7	136.0	130.3	127.6	128.0	131.6	132.6
50°	1404.4	908.9	173.3	146.0	140.9	129.5	123.6	121.4	122.5	127.6	128.8
52.5°	1544.8	1005.6	174.3	145.1	138.4	124.8	118.5	115.9	117.8	122.5	123.5
55°	1706.7	1121.9	190.0	146.4	134.8	121.7	114.3	109.8	111.3	115.7	116.4
57.5°	1886.7	1255.0	221.7	146.0	130.3	118.9	110.0	103.2	104.3	107.0	107.7
60°	2074.0	1415.8	270.8	147.2	128.2	115.5	104.1	95.6	95.2	97.5	97.9
62.5°	2298.9	1601.8	326.9	147.9	129.5	111.1	96.3	88.0	86.9	87.4	87.8
65°	2530.7	1736.5	305.9	144.9	133.7	107.5	89.5	80.6	78.5	78.1	78.3
67.5°	2537.9	1592.2	214.5	138.8	135.4	105.6	84.4	74.3	70.9	69.6	69.4
70°	2276.0	1293.5	167.1	132.4	128.6	102.6	79.6	69.2	64.1	62.0	61.8
71°	2148.2	1190.7	158.3	129.1	123.5	99.6	77.6	66.9	61.6	59.4	59.0
72.5°	1947.7	1067.5	147.7	124.0	113.6	91.8	73.6	63.7	58.2	55.6	55.0
75°	1397.8	698.0	126.9	110.6	94.1	73.2	64.5	57.3	52.5	49.3	48.9
77.5°	538.6	277.8	96.0	92.0	72.1	57.3	53.1	49.5	46.1	42.9	42.7
80°	166.5	124.2	70.0	69.2	52.1	42.7	41.3	40.4	39.1	35.7	34.9
82.5°	88.9	71.3	48.2	44.8	34.1	28.4	30.0	30.3	30.5	26.9	26.5
85°	42.5	37.7	27.1	25.4	19.9	15.9	18.4	19.9	20.1	16.5	15.4
87.5°	20.3	19.7	12.7	9.7	7.4	5.3	6.4	8.0	8.7	6.3	5.5
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)