

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: P322797

Luminaire Tested: **GAN-SA3B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10573 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

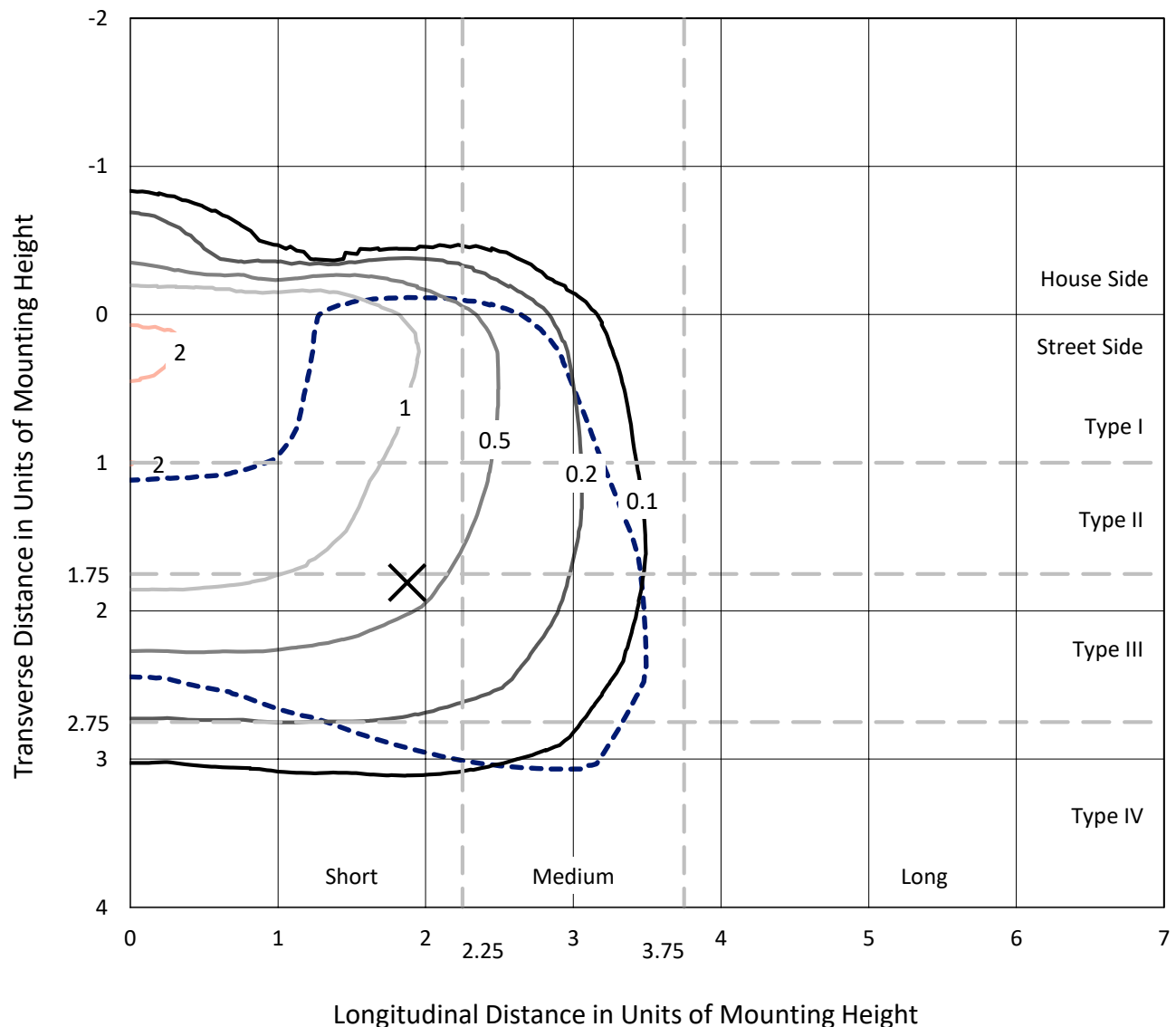
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

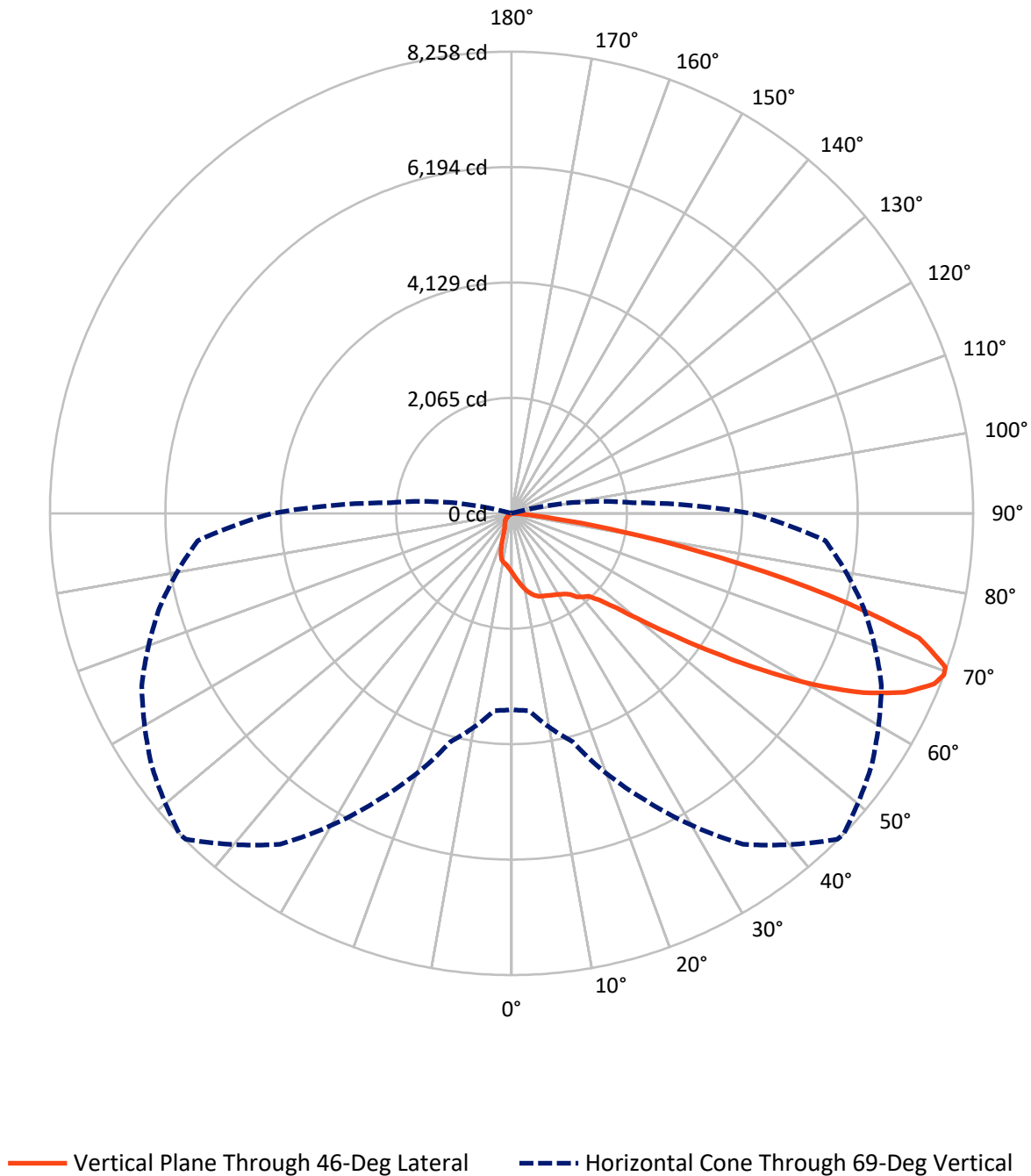
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	1085.1	0.0	1085.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9487.9	0.0	9487.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	10573.0	0.0	10573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.0
10°-20°	319.9	3.0
20°-30°	503.1	4.8
30°-40°	721.4	6.8
40°-50°	1246.9	11.8
50°-60°	2463.4	23.3
60°-70°	3442.8	32.6
70°-80°	1663.2	15.7
80°-90°	106.9	1.0
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°	10573.0	100.0
0°-180°	10573.0	100.0

Coefficient of Utilization



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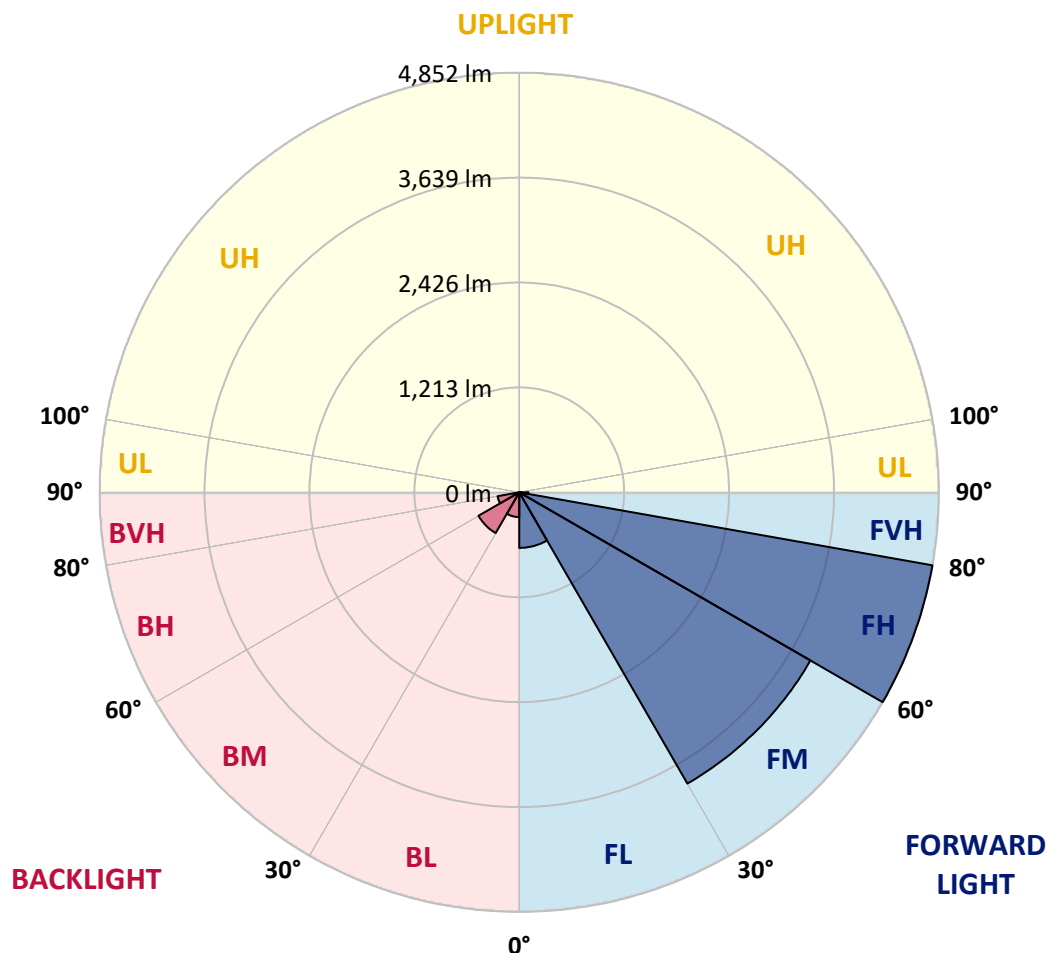
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	642.4	6.1			
FM	(30°-60°)	3887.9	36.8			
FH	(60°-80°)	4851.6	45.9			G2/5000
FVH	(80°-90°)	106.0	1.0			G2/225
BL	(0°-30°)	286.0	2.7	B1/500		
BM	(30°-60°)	543.8	5.1	B1/1000		
BH	(60°-80°)	254.4	2.4	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4
2.5°	1176.9	1175.4	1168.4	1165.5	1148.6	1138.7	1134.7	1122.3	1104.5	1086.6	1066.8
5°	1310.7	1310.2	1297.3	1284.9	1253.2	1223.5	1218.0	1189.3	1149.1	1111.4	1073.8
7.5°	1447.5	1441.1	1428.2	1404.4	1358.3	1310.7	1306.2	1265.6	1208.6	1154.1	1100.0
10°	1563.5	1559.6	1542.7	1506.5	1452.5	1398.5	1393.0	1342.9	1278.5	1211.6	1142.7
12.5°	1653.8	1650.8	1628.5	1583.4	1525.9	1469.8	1462.4	1417.8	1348.9	1274.0	1192.7
15°	1708.8	1707.3	1680.0	1631.9	1575.4	1526.8	1520.4	1481.2	1417.3	1339.0	1247.3
17.5°	1721.7	1722.2	1693.9	1645.3	1598.7	1564.0	1559.1	1529.3	1475.8	1398.0	1301.8
20°	1692.9	1698.9	1673.6	1631.4	1602.7	1584.4	1580.4	1562.5	1517.4	1444.1	1345.4
22.5°	1652.3	1655.2	1637.9	1609.6	1597.7	1601.2	1599.2	1589.3	1551.1	1483.7	1388.5
25°	1627.5	1627.5	1617.1	1593.3	1601.2	1622.5	1623.0	1621.0	1590.8	1532.3	1441.1
27.5°	1626.5	1623.5	1611.6	1593.8	1615.6	1648.3	1650.3	1663.7	1644.8	1591.3	1506.5
30°	1666.1	1662.7	1637.4	1614.1	1641.9	1677.1	1682.0	1711.3	1701.8	1655.2	1579.4
32.5°	1758.9	1746.5	1690.4	1652.3	1673.1	1715.2	1721.7	1768.3	1783.1	1734.1	1649.8
35°	1885.8	1846.6	1765.8	1724.6	1726.6	1770.7	1776.7	1845.1	1889.2	1806.4	1704.3
37.5°	2060.7	2041.4	1910.0	1800.0	1808.9	1875.8	1893.2	1967.6	1955.2	1846.1	1766.3
40°	2444.4	2414.2	2274.4	2011.2	1887.7	1961.1	1966.6	2006.2	2007.2	1935.8	1895.2
42.5°	2966.9	2954.6	2807.3	2394.4	2042.9	2018.1	2028.0	2095.0	2169.8	2125.2	2123.2
45°	3545.5	3539.0	3382.9	2903.0	2356.7	2205.0	2217.4	2307.1	2450.4	2460.3	2523.3
47.5°	4011.0	4008.0	3918.3	3470.6	2837.1	2521.8	2525.7	2620.9	2872.8	2997.2	3097.8
50°	4435.3	4449.7	4378.8	4084.8	3491.4	3018.0	3008.6	3072.0	3476.6	3680.3	3805.2
52.5°	5025.2	5045.5	4846.8	4657.9	4178.0	3633.7	3626.3	3692.7	4202.3	4355.0	4377.3
55°	5546.2	5511.5	5354.4	5299.8	5015.3	4394.2	4392.2	4450.7	4904.3	4969.2	5010.3
57.5°	5776.2	5762.9	5838.7	5963.6	5892.2	5292.9	5288.4	5243.8	5532.3	5539.3	5665.7
60°	5921.5	5937.9	6170.4	6555.5	6733.5	6260.1	6231.3	5959.2	6132.2	6116.8	6252.1
62.5°	5812.4	5844.7	6263.1	6905.0	7363.1	7104.3	7063.7	6614.5	6644.8	6591.7	6717.6
65°	5233.4	5283.5	5969.1	6839.1	7675.4	7764.1	7723.0	7193.0	7051.8	6964.5	6894.6
67.5°	4249.4	4279.1	4995.0	6265.5	7534.6	8157.7	8149.3	7700.2	7359.1	6901.6	6359.2
69°	3511.8	3541.0	4230.1	5661.7	7224.8	8242.0	8258.4	7862.8	7300.6	6518.8	5634.5
70°	2974.4	3005.6	3647.6	5144.2	6865.4	8202.8	8232.1	7847.4	7133.1	6075.7	4998.4
72.5°	1560.1	1586.8	2245.7	3544.0	5596.8	7532.1	7620.9	7184.1	6046.4	4412.5	2955.5
75°	490.3	505.6	876.9	1852.5	3832.0	5856.6	5876.9	5635.5	4293.5	2427.1	1230.9
77.5°	186.9	182.4	292.0	682.6	1937.3	3687.7	3812.2	3521.7	2253.1	858.1	284.1
80°	100.6	101.1	151.7	282.6	828.9	1895.2	2000.3	1706.8	800.6	267.7	65.4
82.5°	43.6	45.6	85.3	149.7	380.7	699.0	751.5	625.6	305.9	180.0	24.3
85°	9.4	10.4	41.1	81.3	155.2	196.3	205.7	202.8	194.8	139.8	9.4
87.5°	0.0	0.0	18.3	29.2	39.2	44.6	39.2	51.1	107.6	94.2	5.0
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°	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4
2.5°	1060.4	1051.4	1036.1	1019.2	1007.3	994.9	985.0	980.6	975.6	972.1	976.6
5°	1058.4	1041.0	1011.3	982.5	961.7	944.9	931.0	925.5	920.1	916.1	915.6
7.5°	1075.7	1051.4	1005.8	963.7	931.5	908.7	889.8	881.9	875.5	872.5	870.0
10°	1108.9	1077.7	1016.7	961.7	920.1	881.4	840.8	809.5	789.2	779.8	776.3
12.5°	1152.1	1112.9	1037.6	972.1	911.6	837.3	751.0	676.7	628.6	612.7	603.3
15°	1202.6	1154.1	1064.8	985.5	880.9	745.1	598.8	501.7	457.1	448.1	438.2
17.5°	1251.2	1197.7	1097.5	988.0	813.5	595.4	438.7	372.8	355.4	361.4	362.9
20°	1293.9	1240.8	1129.8	966.2	691.0	446.7	339.6	323.2	329.7	341.1	343.0
22.5°	1337.0	1282.5	1159.5	908.7	534.4	339.1	305.9	309.8	316.3	327.7	329.7
25°	1389.5	1333.0	1187.3	803.1	401.0	288.5	290.5	296.4	302.9	313.3	314.3
27.5°	1450.0	1397.0	1205.6	665.8	297.4	265.2	271.7	280.6	287.0	296.9	298.9
30°	1530.3	1481.2	1211.6	523.5	249.4	244.4	247.4	258.3	267.7	276.6	278.1
32.5°	1605.7	1564.5	1191.7	395.1	231.0	225.1	225.1	231.5	242.4	250.8	252.8
35°	1675.1	1648.3	1128.3	289.0	217.1	207.2	202.3	202.3	209.2	216.1	218.1
37.5°	1766.8	1765.8	1025.7	230.5	203.7	192.3	181.9	174.0	171.5	173.0	174.0
40°	1923.9	1925.4	891.8	206.7	192.3	177.0	161.1	146.7	133.4	128.9	128.4
42.5°	2169.3	2147.0	751.5	195.3	182.4	161.1	137.3	118.0	97.2	90.7	90.2
45°	2559.0	2426.6	602.8	184.9	172.0	143.3	113.5	87.2	70.4	65.4	65.4
47.5°	3126.6	2793.9	467.0	173.5	158.1	122.9	85.8	63.0	51.6	49.1	49.6
50°	3713.5	3153.8	357.9	159.1	141.3	101.6	63.5	45.6	39.2	39.2	39.7
52.5°	4234.0	3417.6	279.1	143.8	120.5	79.8	48.1	35.7	32.7	32.2	32.7
55°	4721.3	3587.6	213.7	125.9	95.7	59.5	36.7	29.2	27.3	26.3	25.8
57.5°	5191.3	3671.9	160.1	101.6	69.4	43.1	29.2	24.8	22.8	21.3	20.8
60°	5504.1	3603.5	110.1	74.9	48.1	31.2	24.3	21.3	18.8	17.4	16.9
62.5°	5680.6	3416.6	70.9	54.0	34.2	23.3	19.3	17.8	14.4	12.9	12.9
65°	5609.2	3108.2	49.6	38.7	24.8	17.4	14.4	14.4	10.4	8.4	7.9
67.5°	4970.7	2625.9	37.7	28.8	17.8	12.9	10.9	12.4	6.4	4.0	4.0
69°	4276.7	2176.3	32.2	23.8	14.9	10.4	9.4	11.4	4.5	3.0	2.5
70°	3717.0	1877.3	29.2	20.8	12.4	8.9	8.4	10.9	4.5	2.5	2.0
72.5°	2223.8	1047.0	22.3	14.9	7.9	6.9	6.9	12.4	4.5	2.5	2.0
75°	898.8	368.8	16.4	10.4	5.9	5.9	8.4	15.9	4.0	2.0	1.5
77.5°	203.7	80.8	9.4	6.4	4.0	5.9	9.9	12.4	2.5	1.0	0.0
80°	49.6	19.8	5.9	4.0	2.5	4.5	7.4	6.9	0.5	0.0	0.0
82.5°	16.4	6.9	2.5	2.0	0.5	1.5	3.5	2.0	0.0	0.0	0.0
85°	6.9	4.0	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.5	1.5	0.0	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)