

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: P322988

Luminaire Tested: **GAN-SA4A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322988
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-SA4A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 10017 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

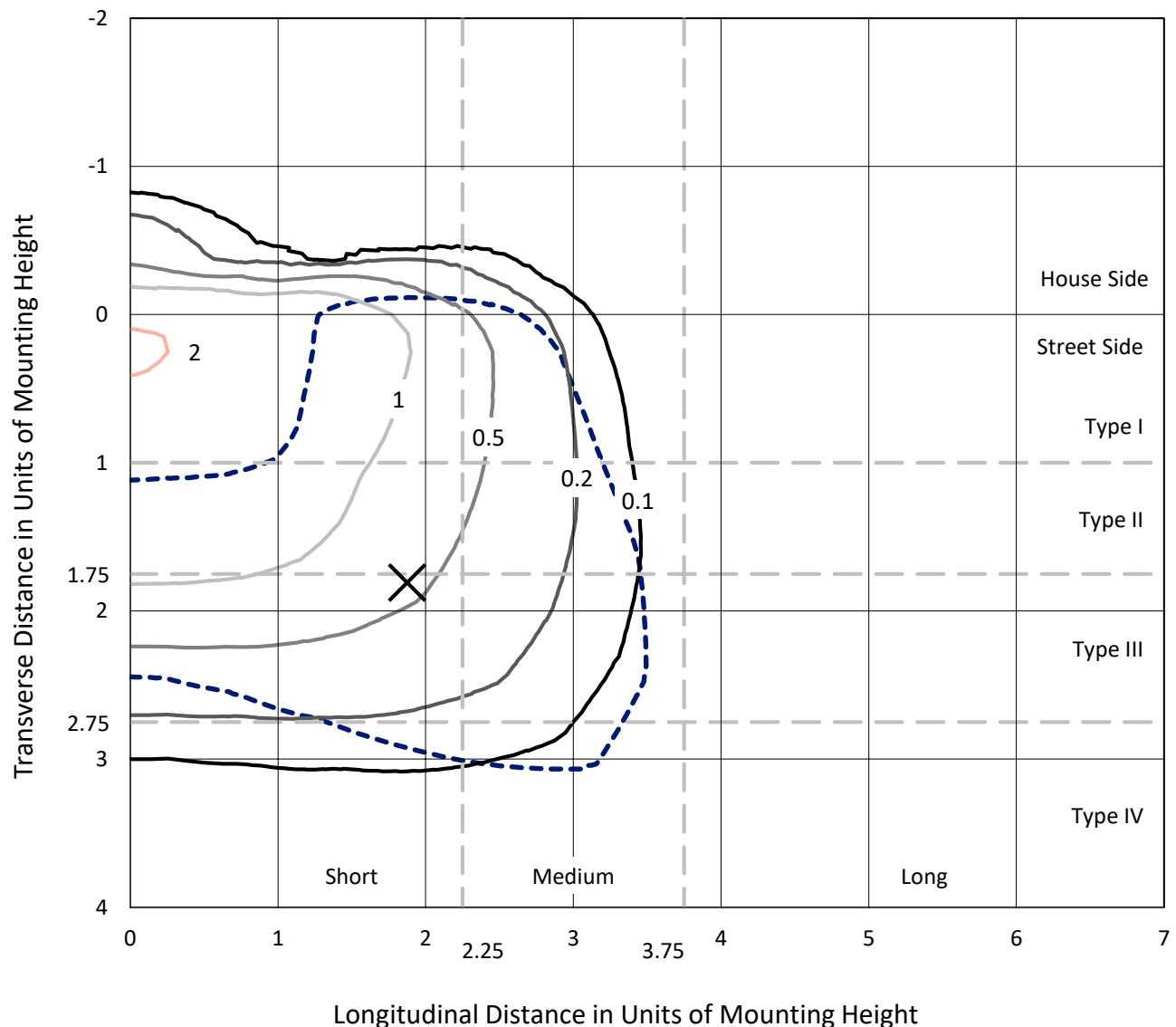
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

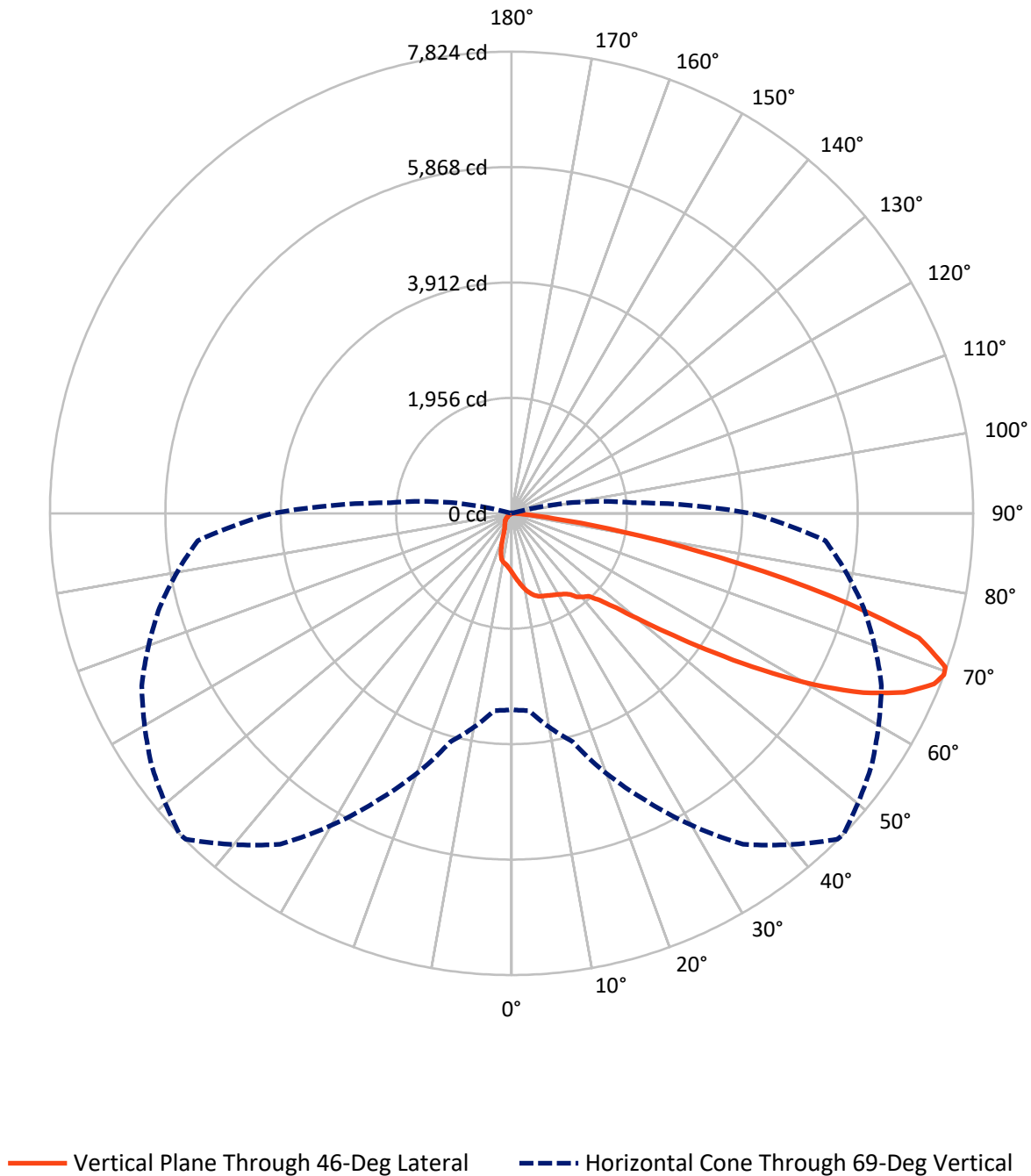
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1028.0	0.0	1028.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8989.0	0.0	8989.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	10017.0	0.0	10017.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.0
10°-20°	303.1	3.0
20°-30°	476.6	4.8
30°-40°	683.5	6.8
40°-50°	1181.3	11.8
50°-60°	2333.8	23.3
60°-70°	3261.7	32.6
70°-80°	1575.8	15.7
80°-90°	101.3	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°	10017.0	100.0
0°-180°	10017.0	100.0

Coefficient of Utilization



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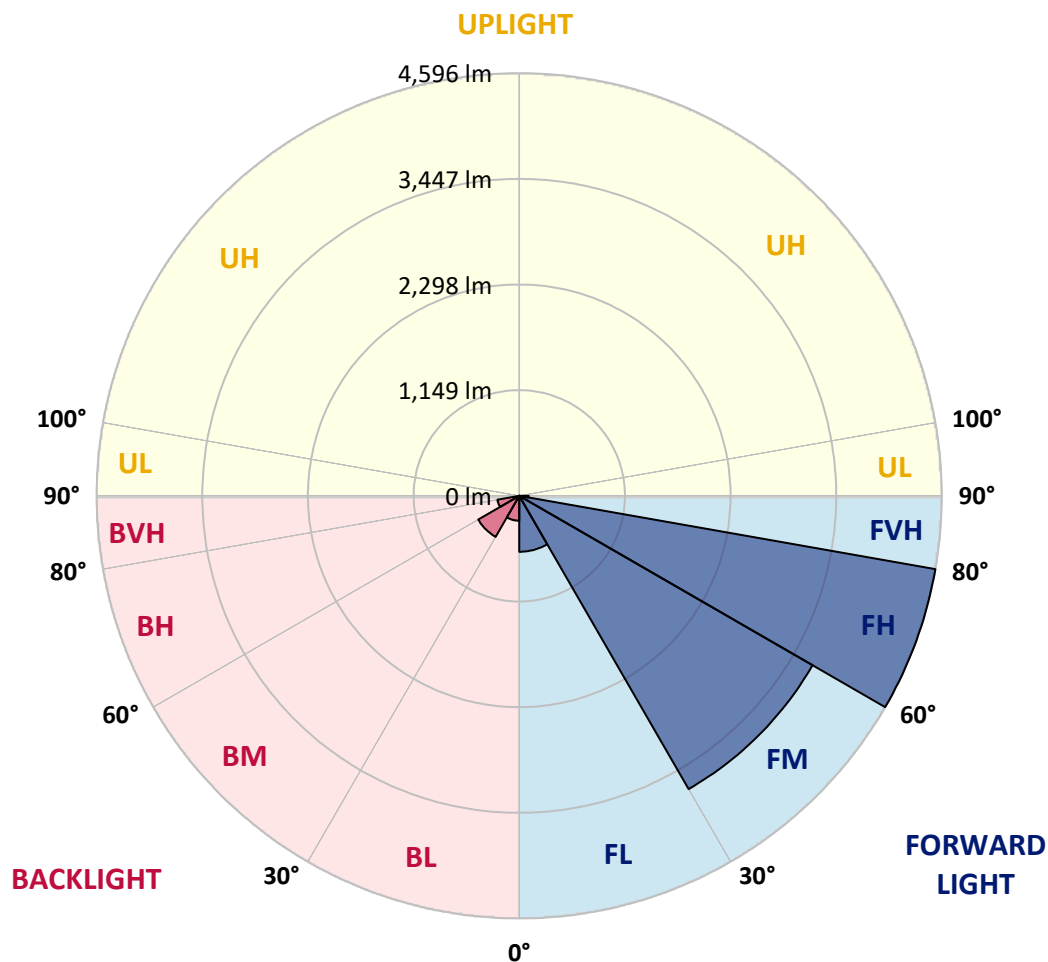
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.7	6.1			
FM	(30°-60°)	3683.5	36.8			
FH	(60°-80°)	4596.4	45.9			G2/5000
FVH	(80°-90°)	100.4	1.0			G2/225
BL	(0°-30°)	270.9	2.7	B1/500		
BM	(30°-60°)	515.2	5.1	B1/1000		
BH	(60°-80°)	241.0	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°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
2.5°	1115.0	1113.6	1107.0	1104.2	1088.2	1078.8	1075.1	1063.3	1046.4	1029.5	1010.7
5°	1241.8	1241.3	1229.1	1217.4	1187.3	1159.1	1154.0	1126.7	1088.7	1053.0	1017.3
7.5°	1371.4	1365.3	1353.1	1330.6	1286.9	1241.8	1237.6	1199.0	1145.0	1093.4	1042.2
10°	1481.3	1477.6	1461.6	1427.3	1376.1	1324.9	1319.7	1272.3	1211.3	1147.9	1082.6
12.5°	1566.8	1564.0	1542.8	1500.1	1445.6	1392.5	1385.5	1343.2	1277.9	1207.0	1130.0
15°	1618.9	1617.5	1591.7	1546.1	1492.6	1446.6	1440.5	1403.3	1342.8	1268.6	1181.7
17.5°	1631.1	1631.6	1604.8	1558.8	1514.7	1481.8	1477.1	1448.9	1398.2	1324.4	1233.3
20°	1603.9	1609.5	1585.6	1545.7	1518.4	1501.0	1497.3	1480.4	1437.6	1368.1	1274.7
22.5°	1565.4	1568.2	1551.8	1525.0	1513.7	1517.0	1515.1	1505.7	1469.6	1405.7	1315.5
25°	1541.9	1541.9	1532.0	1509.5	1517.0	1537.2	1537.7	1535.8	1507.1	1451.7	1365.3
27.5°	1541.0	1538.1	1526.9	1510.0	1530.6	1561.6	1563.5	1576.2	1558.3	1507.6	1427.3
30°	1578.5	1575.2	1551.3	1529.2	1555.5	1588.9	1593.6	1621.3	1612.3	1568.2	1496.3
32.5°	1666.4	1654.6	1601.5	1565.4	1585.1	1625.0	1631.1	1675.3	1689.4	1642.9	1563.0
35°	1786.6	1749.5	1672.9	1634.0	1635.8	1677.6	1683.3	1748.1	1789.9	1711.4	1614.7
37.5°	1952.4	1934.1	1809.6	1705.3	1713.8	1777.2	1793.6	1864.1	1852.3	1749.0	1673.4
40°	2315.9	2287.2	2154.8	1905.4	1788.5	1858.0	1863.1	1900.7	1901.7	1834.0	1795.5
42.5°	2810.9	2799.2	2659.7	2268.5	1935.5	1912.0	1921.4	1984.8	2055.7	2013.4	2011.6
45°	3359.0	3352.9	3205.0	2750.3	2232.8	2089.1	2100.8	2185.8	2321.5	2330.9	2390.6
47.5°	3800.0	3797.2	3712.2	3288.1	2687.9	2389.2	2392.9	2483.1	2721.7	2839.6	2934.9
50°	4202.1	4215.7	4148.5	3870.0	3307.8	2859.3	2850.4	2910.5	3293.7	3486.8	3605.1
52.5°	4761.0	4780.2	4591.9	4412.9	3958.3	3442.6	3435.6	3498.5	3981.3	4126.0	4147.1
55°	5254.6	5221.7	5072.8	5021.1	4751.6	4163.1	4161.2	4216.6	4646.4	4707.9	4746.9
57.5°	5472.5	5459.8	5531.7	5650.0	5582.4	5014.6	5010.3	4968.1	5241.4	5248.0	5367.8
60°	5610.1	5625.6	5845.9	6210.8	6379.4	5930.9	5903.6	5645.8	5809.7	5795.1	5923.4
62.5°	5506.8	5537.3	5933.7	6541.9	6975.9	6730.7	6692.2	6266.7	6295.3	6245.1	6364.4
65°	4958.2	5005.6	5655.2	6479.4	7271.8	7355.8	7316.9	6814.8	6680.9	6598.3	6532.0
67.5°	4025.9	4054.1	4732.3	5936.0	7138.4	7728.7	7720.8	7295.2	6972.1	6538.6	6024.8
69°	3327.1	3354.8	4007.6	5364.0	6844.8	7808.6	7824.1	7449.3	6916.7	6176.0	5338.2
70°	2818.0	2847.6	3455.8	4873.7	6504.3	7771.5	7799.2	7434.7	6758.0	5756.2	4735.6
72.5°	1478.0	1503.4	2127.6	3357.6	5302.5	7136.0	7220.1	6806.3	5728.5	4180.5	2800.1
75°	464.5	479.1	830.8	1755.1	3630.5	5548.6	5567.8	5339.1	4067.7	2299.5	1166.2
77.5°	177.1	172.8	276.6	646.7	1835.4	3493.8	3611.7	3336.5	2134.6	813.0	269.1
80°	95.3	95.8	143.7	267.7	785.3	1795.5	1895.1	1617.0	758.5	253.6	62.0
82.5°	41.3	43.2	80.8	141.8	360.7	662.2	712.0	592.7	289.8	170.5	23.0
85°	8.9	9.9	39.0	77.0	147.0	186.0	194.9	192.1	184.6	132.4	8.9
87.5°	0.0	0.0	17.4	27.7	37.1	42.3	37.1	48.4	101.9	89.2	4.7
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°	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7	1003.7
2.5°	1004.6	996.2	981.6	965.6	954.4	942.6	933.2	929.0	924.3	921.0	925.2
5°	1002.7	986.3	958.1	930.9	911.1	895.2	882.0	876.9	871.7	867.9	867.5
7.5°	1019.2	996.2	952.9	913.0	882.5	860.9	843.0	835.5	829.4	826.6	824.3
10°	1050.6	1021.0	963.3	911.1	871.7	835.1	796.5	767.0	747.7	738.8	735.5
12.5°	1091.5	1054.4	983.0	921.0	863.7	793.3	711.5	641.1	595.5	580.5	571.6
15°	1139.4	1093.4	1008.8	933.7	834.6	705.9	567.4	475.3	433.0	424.6	415.2
17.5°	1185.4	1134.7	1039.8	936.0	770.7	564.1	415.7	353.2	336.7	342.4	343.8
20°	1225.8	1175.6	1070.4	915.4	654.7	423.2	321.7	306.2	312.3	323.1	325.0
22.5°	1266.7	1215.0	1098.5	860.9	506.3	321.2	289.8	293.5	299.6	310.4	312.3
25°	1316.5	1262.9	1124.8	760.9	380.0	273.3	275.2	280.9	287.0	296.8	297.8
27.5°	1373.8	1323.5	1142.2	630.8	281.8	251.3	257.4	265.8	271.9	281.3	283.2
30°	1449.8	1403.3	1147.9	496.0	236.2	231.5	234.4	244.7	253.6	262.1	263.5
32.5°	1521.2	1482.3	1129.1	374.3	218.9	213.2	213.2	219.3	229.7	237.6	239.5
35°	1587.0	1561.6	1068.9	273.8	205.7	196.3	191.6	191.6	198.2	204.8	206.7
37.5°	1673.9	1672.9	971.7	218.4	193.0	182.2	172.4	164.9	162.5	163.9	164.9
40°	1822.8	1824.2	844.9	195.8	182.2	167.7	152.6	139.0	126.3	122.1	121.6
42.5°	2055.2	2034.1	712.0	185.0	172.8	152.6	130.1	111.8	92.1	85.9	85.5
45°	2424.4	2299.0	571.1	175.2	163.0	135.7	107.6	82.7	66.7	62.0	62.0
47.5°	2962.2	2647.0	442.4	164.4	149.8	116.5	81.3	59.6	48.8	46.5	47.0
50°	3518.2	2988.0	339.1	150.8	133.9	96.3	60.1	43.2	37.1	37.1	37.6
52.5°	4011.4	3237.8	264.4	136.2	114.1	75.6	45.6	33.8	31.0	30.5	31.0
55°	4473.1	3398.9	202.4	119.3	90.6	56.4	34.8	27.7	25.8	24.9	24.4
57.5°	4918.3	3478.8	151.7	96.3	65.8	40.9	27.7	23.5	21.6	20.2	19.7
60°	5214.6	3414.0	104.3	70.9	45.6	29.6	23.0	20.2	17.8	16.4	16.0
62.5°	5381.8	3236.9	67.2	51.2	32.4	22.1	18.3	16.9	13.6	12.2	12.2
65°	5314.2	2944.8	47.0	36.6	23.5	16.4	13.6	13.6	9.9	8.0	7.5
67.5°	4709.3	2487.8	35.7	27.2	16.9	12.2	10.3	11.7	6.1	3.8	3.8
69°	4051.8	2061.8	30.5	22.5	14.1	9.9	8.9	10.8	4.2	2.8	2.3
70°	3521.5	1778.6	27.7	19.7	11.7	8.5	8.0	10.3	4.2	2.3	1.9
72.5°	2106.9	991.9	21.1	14.1	7.5	6.6	6.6	11.7	4.2	2.3	1.9
75°	851.5	349.4	15.5	9.9	5.6	5.6	8.0	15.0	3.8	1.9	1.4
77.5°	193.0	76.6	8.9	6.1	3.8	5.6	9.4	11.7	2.3	0.9	0.0
80°	47.0	18.8	5.6	3.8	2.3	4.2	7.0	6.6	0.5	0.0	0.0
82.5°	15.5	6.6	2.3	1.9	0.5	1.4	3.3	1.9	0.0	0.0	0.0
85°	6.6	3.8	0.9	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.2	1.4	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)