

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: P322806

Luminaire Tested: **GAN-SA2C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322806
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-SA2C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 8773 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

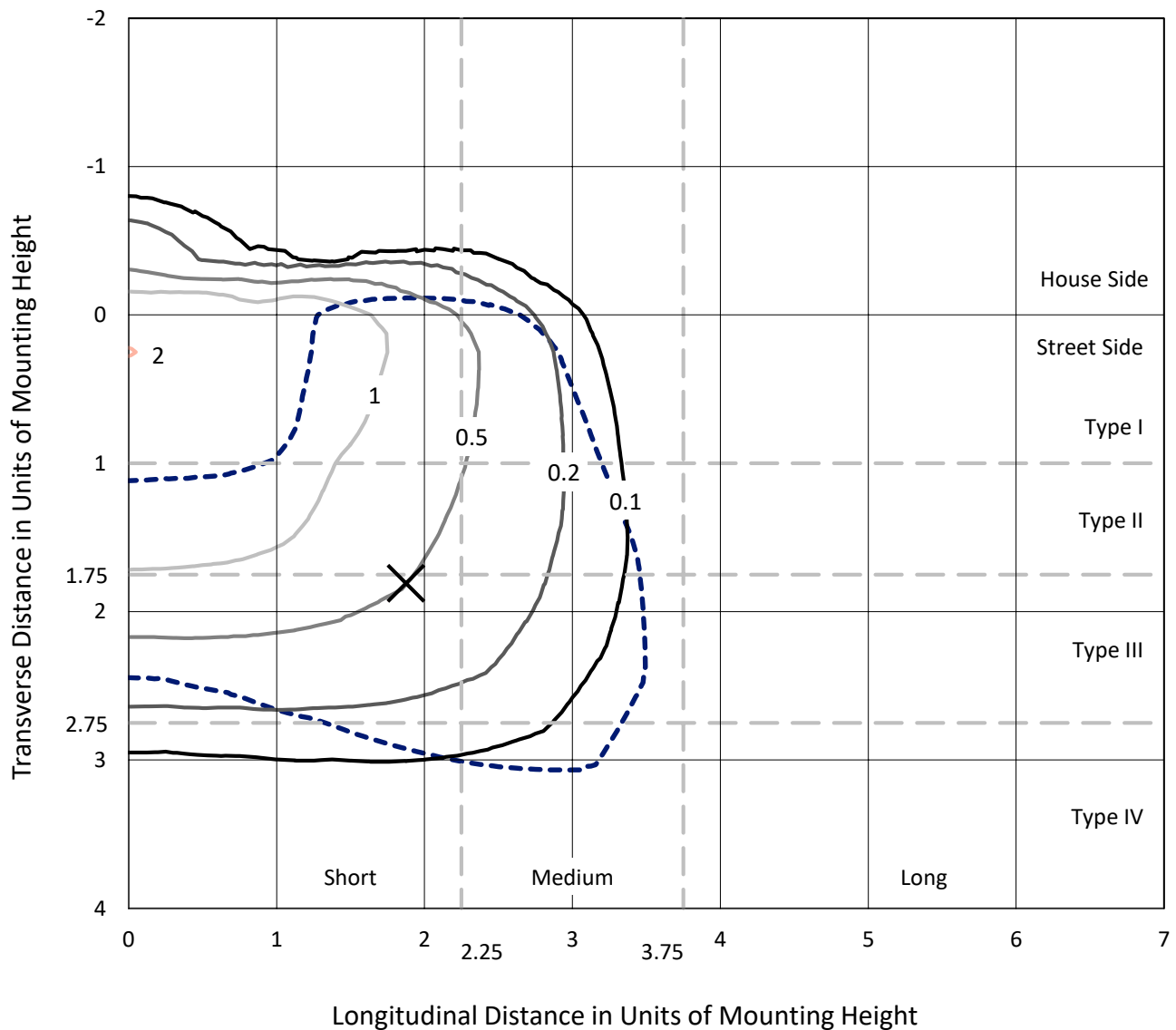
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

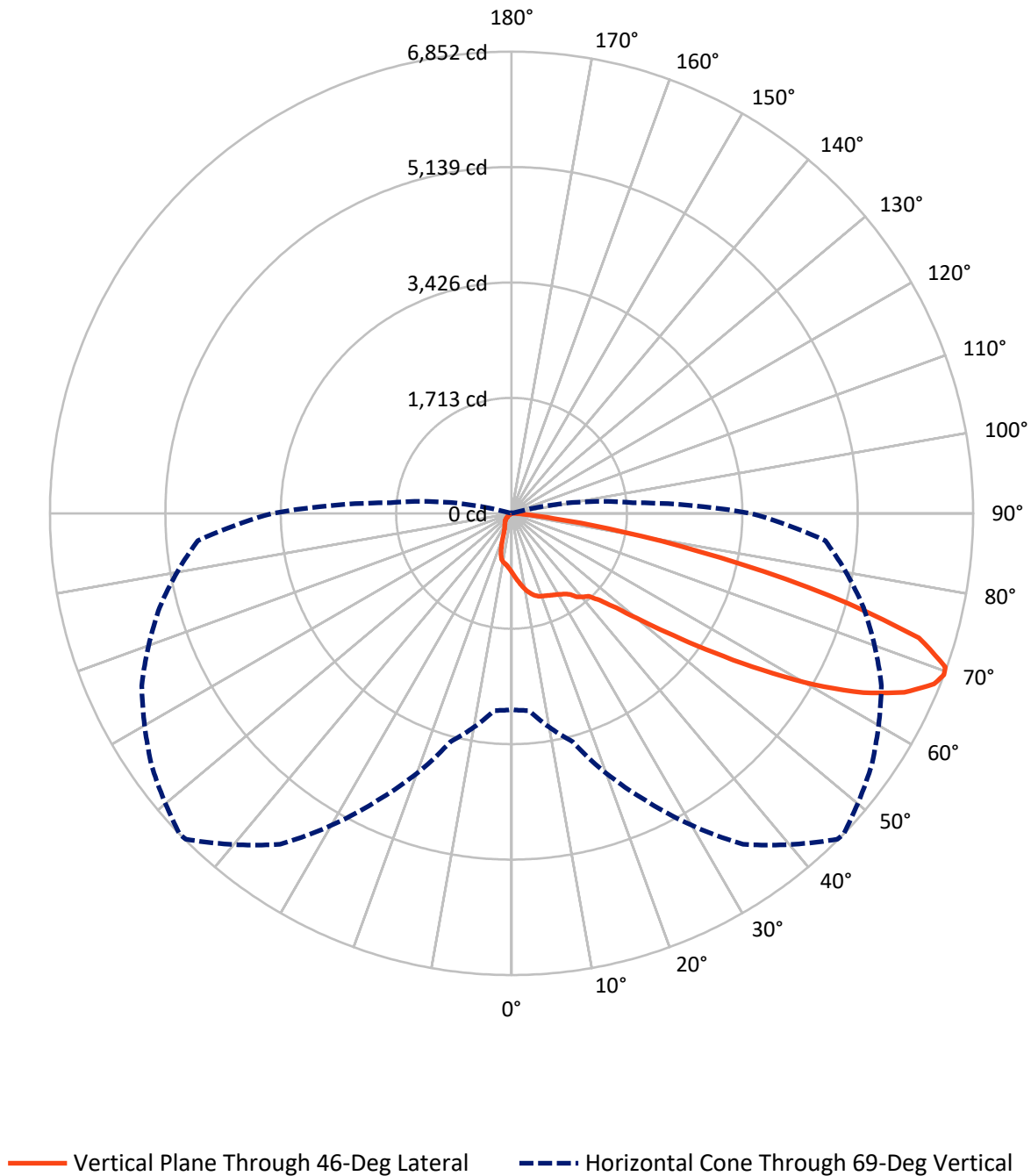
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	900.3	0.0	900.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7872.7	0.0	7872.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	8773.0	0.0	8773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.5	1.0
10°-20°	265.4	3.0
20°-30°	417.4	4.8
30°-40°	598.6	6.8
40°-50°	1034.6	11.8
50°-60°	2044.0	23.3
60°-70°	2856.6	32.6
70°-80°	1380.1	15.7
80°-90°	88.7	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°	8773.0	100.0
0°-180°	8773.0	100.0

Coefficient of Utilization



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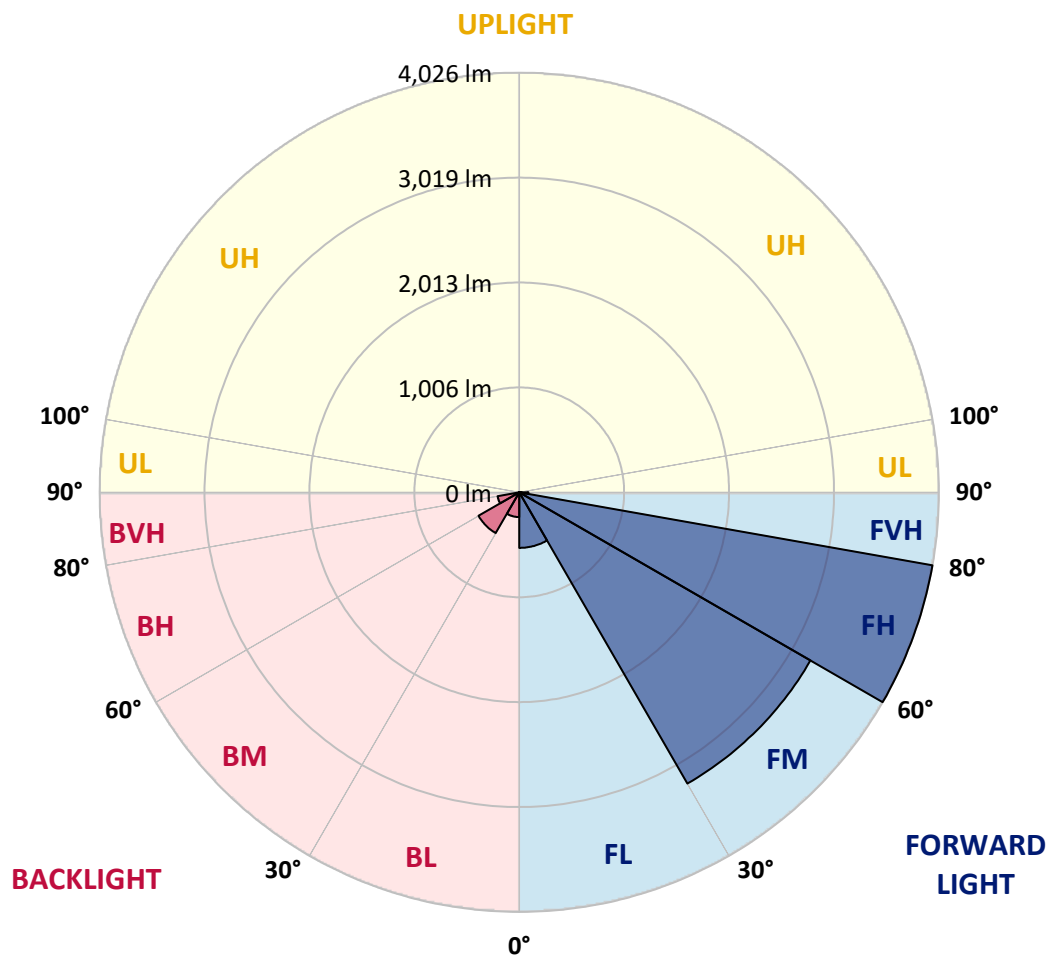
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.1	6.1			
FM	(30°-60°)	3226.0	36.8			
FH	(60°-80°)	4025.6	45.9			G2/5000
FVH	(80°-90°)	88.0	1.0			G1/100
BL	(0°-30°)	237.3	2.7	B1/500		
BM	(30°-60°)	451.2	5.1	B1/1000		
BH	(60°-80°)	211.1	2.4	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0
2.5°	976.5	975.3	969.5	967.0	953.1	944.8	941.5	931.3	916.5	901.6	885.2
5°	1087.6	1087.2	1076.5	1066.2	1039.9	1015.2	1010.6	986.8	953.5	922.2	891.0
7.5°	1201.1	1195.7	1185.1	1165.3	1127.1	1087.6	1083.9	1050.1	1002.8	957.6	912.8
10°	1297.3	1294.1	1280.1	1250.0	1205.2	1160.4	1155.8	1114.3	1060.8	1005.3	948.1
12.5°	1372.2	1369.7	1351.2	1313.8	1266.1	1219.6	1213.4	1176.4	1119.2	1057.1	989.7
15°	1417.9	1416.6	1394.0	1354.1	1307.2	1266.9	1261.6	1229.1	1176.0	1111.0	1034.9
17.5°	1428.6	1429.0	1405.5	1365.2	1326.6	1297.8	1293.6	1269.0	1224.5	1160.0	1080.2
20°	1404.7	1409.6	1388.7	1353.7	1329.8	1314.6	1311.3	1296.5	1259.1	1198.2	1116.4
22.5°	1371.0	1373.4	1359.0	1335.6	1325.7	1328.6	1327.0	1318.7	1287.1	1231.1	1152.1
25°	1350.4	1350.4	1341.8	1322.0	1328.6	1346.3	1346.7	1345.1	1320.0	1271.4	1195.7
27.5°	1349.6	1347.1	1337.2	1322.4	1340.5	1367.7	1369.3	1380.4	1364.8	1320.4	1250.0
30°	1382.5	1379.6	1358.6	1339.3	1362.3	1391.5	1395.7	1419.9	1412.1	1373.4	1310.5
32.5°	1459.4	1449.1	1402.7	1371.0	1388.3	1423.2	1428.6	1467.2	1479.6	1438.8	1368.9
35°	1564.7	1532.2	1465.2	1431.0	1432.7	1469.3	1474.2	1531.0	1567.6	1498.9	1414.2
37.5°	1709.9	1693.9	1584.9	1493.6	1501.0	1556.5	1570.9	1632.6	1622.3	1531.8	1465.6
40°	2028.3	2003.2	1887.2	1668.8	1566.4	1627.2	1631.8	1664.7	1665.5	1606.3	1572.5
42.5°	2461.8	2451.6	2329.4	1986.7	1695.1	1674.5	1682.8	1738.3	1800.4	1763.4	1761.7
45°	2941.9	2936.5	2806.9	2408.8	1955.5	1829.6	1839.9	1914.4	2033.2	2041.5	2093.7
47.5°	3328.1	3325.6	3251.2	2879.8	2354.1	2092.5	2095.7	2174.7	2383.7	2486.9	2570.4
50°	3680.2	3692.1	3633.3	3389.4	2897.0	2504.2	2496.4	2549.0	2884.7	3053.7	3157.4
52.5°	4169.7	4186.6	4021.6	3864.9	3466.7	3015.1	3008.9	3064.0	3486.9	3613.6	3632.1
55°	4602.0	4573.2	4442.8	4397.6	4161.5	3646.1	3644.4	3693.0	4069.3	4123.2	4157.4
57.5°	4792.9	4781.8	4844.7	4948.4	4889.1	4391.8	4388.1	4351.1	4590.5	4596.3	4701.1
60°	4913.4	4927.0	5119.9	5439.5	5587.2	5194.3	5170.5	4944.7	5088.2	5075.5	5187.8
62.5°	4822.9	4849.6	5196.8	5729.5	6109.6	5894.8	5861.1	5488.4	5513.5	5469.5	5574.0
65°	4342.5	4384.0	4952.9	5674.8	6368.7	6442.3	6408.2	5968.5	5851.2	5778.8	5720.8
67.5°	3526.0	3550.6	4144.6	5198.9	6251.9	6768.9	6761.9	6389.3	6106.3	5726.6	5276.6
69°	2913.9	2938.2	3509.9	4697.9	5994.8	6838.8	6852.4	6524.2	6057.7	5409.0	4675.2
70°	2468.0	2493.9	3026.6	4268.4	5696.6	6806.4	6830.6	6511.4	5918.7	5041.3	4147.5
72.5°	1294.5	1316.7	1863.3	2940.6	4644.0	6249.8	6323.4	5961.1	5017.0	3661.3	2452.4
75°	406.8	419.6	727.7	1537.2	3179.6	4859.5	4876.4	4676.1	3562.6	2013.9	1021.3
77.5°	155.1	151.4	242.3	566.4	1607.5	3059.9	3163.2	2922.1	1869.5	712.0	235.7
80°	83.5	83.9	125.9	234.5	687.8	1572.5	1659.7	1416.2	664.3	222.1	54.3
82.5°	36.2	37.8	70.7	124.2	315.9	580.0	623.6	519.1	253.8	149.3	20.2
85°	7.8	8.6	34.1	67.5	128.7	162.9	170.7	168.2	161.7	116.0	7.8
87.5°	0.0	0.0	15.2	24.3	32.5	37.0	32.5	42.4	89.3	78.2	4.1
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°	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0
2.5°	879.8	872.4	859.7	845.7	835.8	825.5	817.3	813.6	809.5	806.6	810.3
5°	878.2	863.8	839.1	815.3	798.0	784.0	772.5	768.0	763.4	760.1	759.7
7.5°	892.6	872.4	834.6	799.6	772.9	754.0	738.3	731.8	726.4	723.9	721.9
10°	920.2	894.2	843.6	798.0	763.4	731.4	697.6	671.7	654.8	647.0	644.1
12.5°	955.9	923.4	860.9	806.6	756.4	694.7	623.2	561.5	521.6	508.4	500.6
15°	997.9	957.6	883.5	817.7	730.9	618.2	496.9	416.3	379.3	371.8	363.6
17.5°	1038.2	993.8	910.7	819.8	675.0	494.0	364.0	309.3	294.9	299.9	301.1
20°	1073.6	1029.6	937.4	801.7	573.4	370.6	281.8	268.2	273.5	283.0	284.6
22.5°	1109.4	1064.1	962.1	754.0	443.4	281.4	253.8	257.1	262.4	271.9	273.5
25°	1153.0	1106.1	985.1	666.4	332.8	239.4	241.0	246.0	251.3	260.0	260.8
27.5°	1203.2	1159.1	1000.4	552.4	246.8	220.1	225.4	232.8	238.2	246.4	248.0
30°	1269.8	1229.1	1005.3	434.4	206.9	202.8	205.3	214.3	222.1	229.5	230.8
32.5°	1332.3	1298.2	988.8	327.8	191.7	186.7	186.7	192.1	201.1	208.1	209.8
35°	1389.9	1367.7	936.2	239.8	180.2	171.9	167.8	167.8	173.6	179.3	181.0
37.5°	1466.0	1465.2	851.1	191.3	169.1	159.6	151.0	144.4	142.3	143.6	144.4
40°	1596.4	1597.6	740.0	171.5	159.6	146.8	133.7	121.8	110.6	106.9	106.5
42.5°	1800.0	1781.5	623.6	162.1	151.4	133.7	113.9	97.9	80.6	75.3	74.9
45°	2123.3	2013.5	500.2	153.4	142.7	118.9	94.2	72.4	58.4	54.3	54.3
47.5°	2594.3	2318.3	387.5	144.0	131.2	102.0	71.2	52.2	42.8	40.7	41.1
50°	3081.3	2616.9	297.0	132.0	117.2	84.3	52.7	37.8	32.5	32.5	32.9
52.5°	3513.2	2835.7	231.6	119.3	100.0	66.2	39.9	29.6	27.1	26.7	27.1
55°	3917.5	2976.8	177.3	104.5	79.4	49.4	30.4	24.3	22.6	21.8	21.4
57.5°	4307.5	3046.8	132.9	84.3	57.6	35.8	24.3	20.6	18.9	17.7	17.3
60°	4567.0	2990.0	91.3	62.1	39.9	25.9	20.2	17.7	15.6	14.4	14.0
62.5°	4713.5	2834.9	58.8	44.8	28.4	19.3	16.0	14.8	11.9	10.7	10.7
65°	4654.2	2579.1	41.1	32.1	20.6	14.4	11.9	11.9	8.6	7.0	6.6
67.5°	4124.5	2178.8	31.3	23.9	14.8	10.7	9.0	10.3	5.3	3.3	3.3
69°	3548.6	1805.8	26.7	19.7	12.3	8.6	7.8	9.5	3.7	2.5	2.1
70°	3084.2	1557.7	24.3	17.3	10.3	7.4	7.0	9.0	3.7	2.1	1.6
72.5°	1845.2	868.7	18.5	12.3	6.6	5.8	5.8	10.3	3.7	2.1	1.6
75°	745.7	306.0	13.6	8.6	4.9	4.9	7.0	13.2	3.3	1.6	1.2
77.5°	169.1	67.0	7.8	5.3	3.3	4.9	8.2	10.3	2.1	0.8	0.0
80°	41.1	16.5	4.9	3.3	2.1	3.7	6.2	5.8	0.4	0.0	0.0
82.5°	13.6	5.8	2.1	1.6	0.4	1.2	2.9	1.6	0.0	0.0	0.0
85°	5.8	3.3	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.7	1.2	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)