

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: P322798

Luminaire Tested: **GAN-SA4B-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322798
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-SA4B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 13971 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

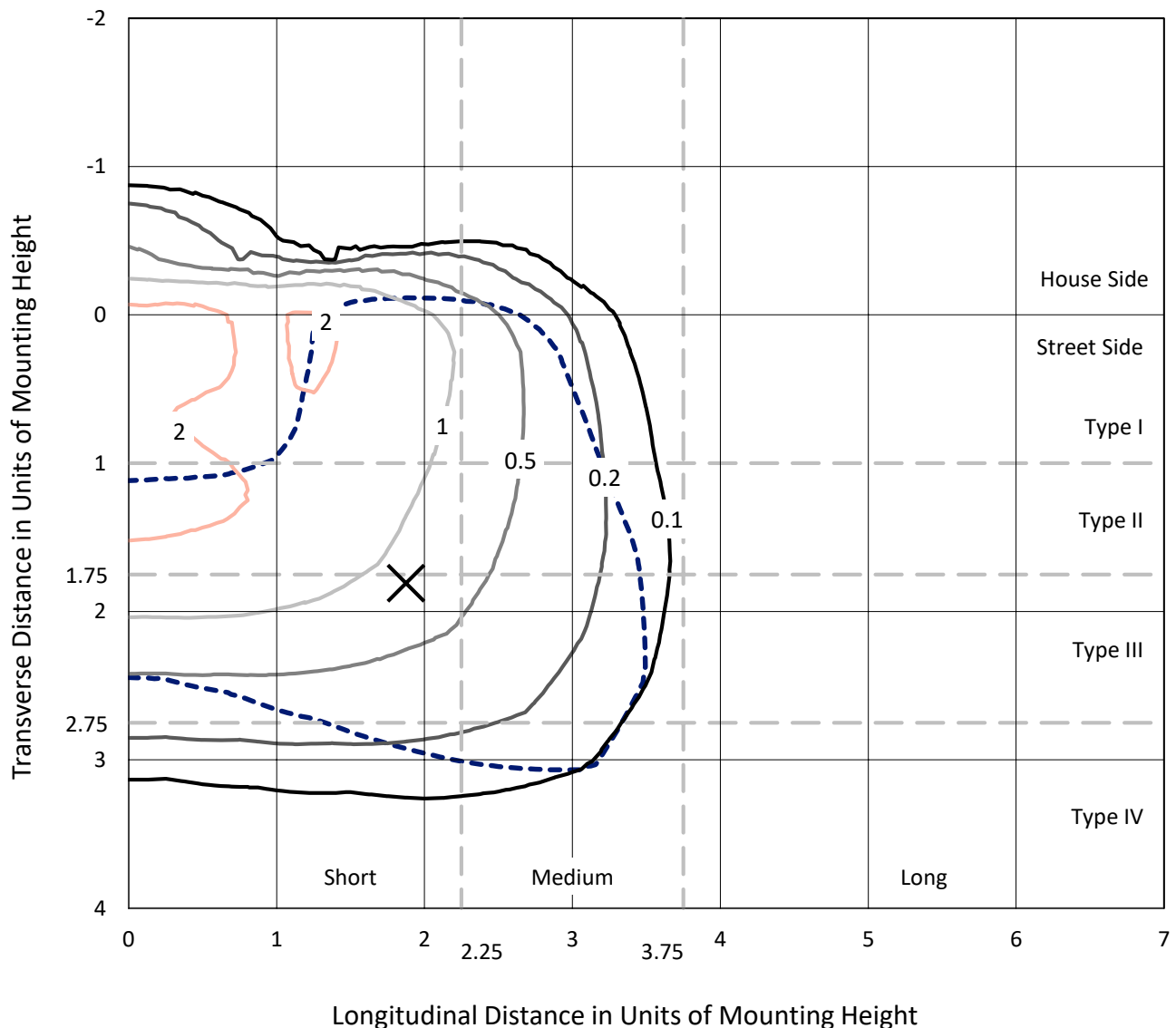
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

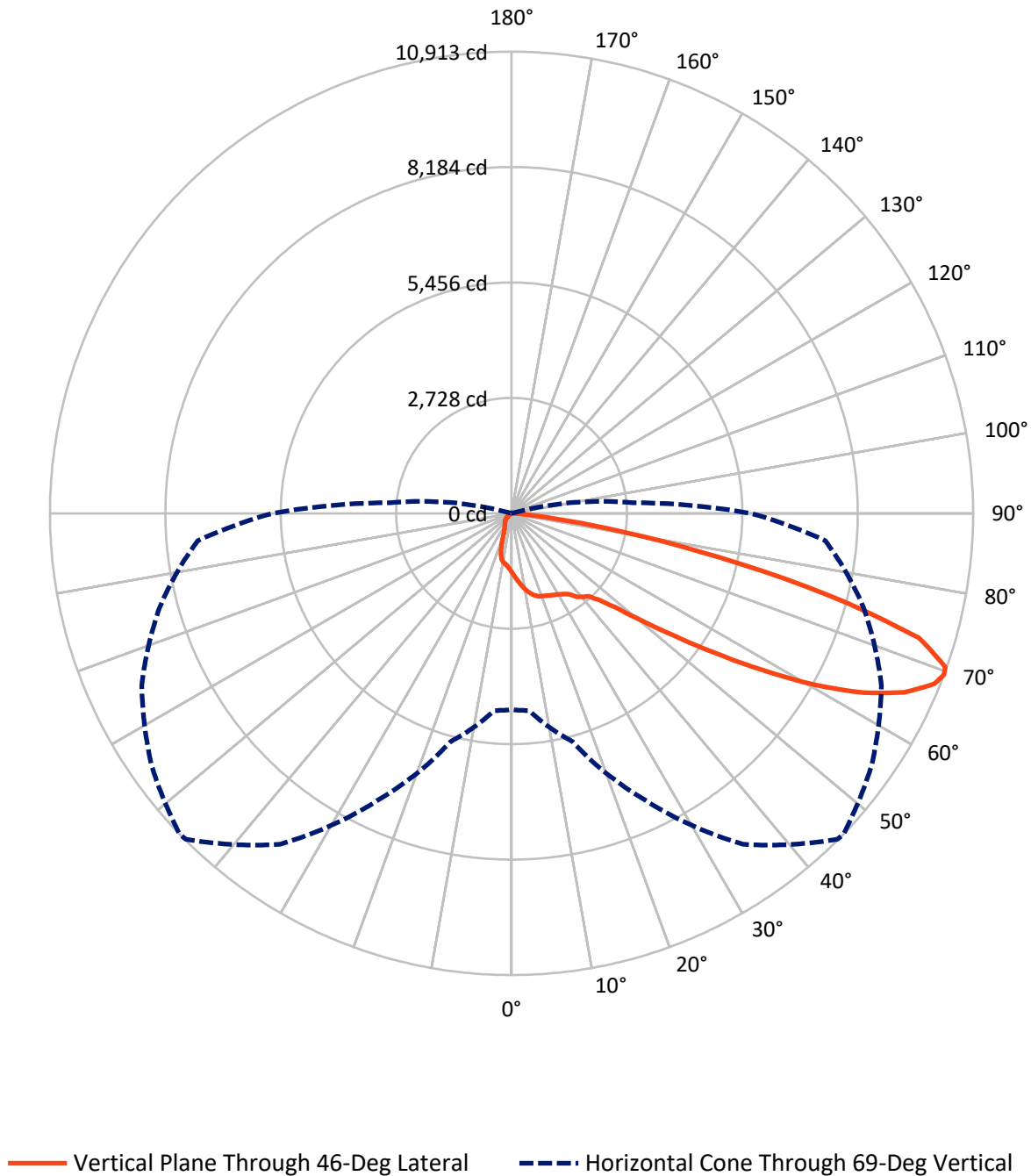
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1433.8	0.0	1433.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12537.2	0.0	12537.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	13971.0	0.0	13971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.0
10°-20°	422.7	3.0
20°-30°	664.8	4.8
30°-40°	953.3	6.8
40°-50°	1647.6	11.8
50°-60°	3255.0	23.3
60°-70°	4549.2	32.6
70°-80°	2197.8	15.7
80°-90°	141.3	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°	13971.0	100.0
0°-180°	13971.0	100.0

Coefficient of Utilization



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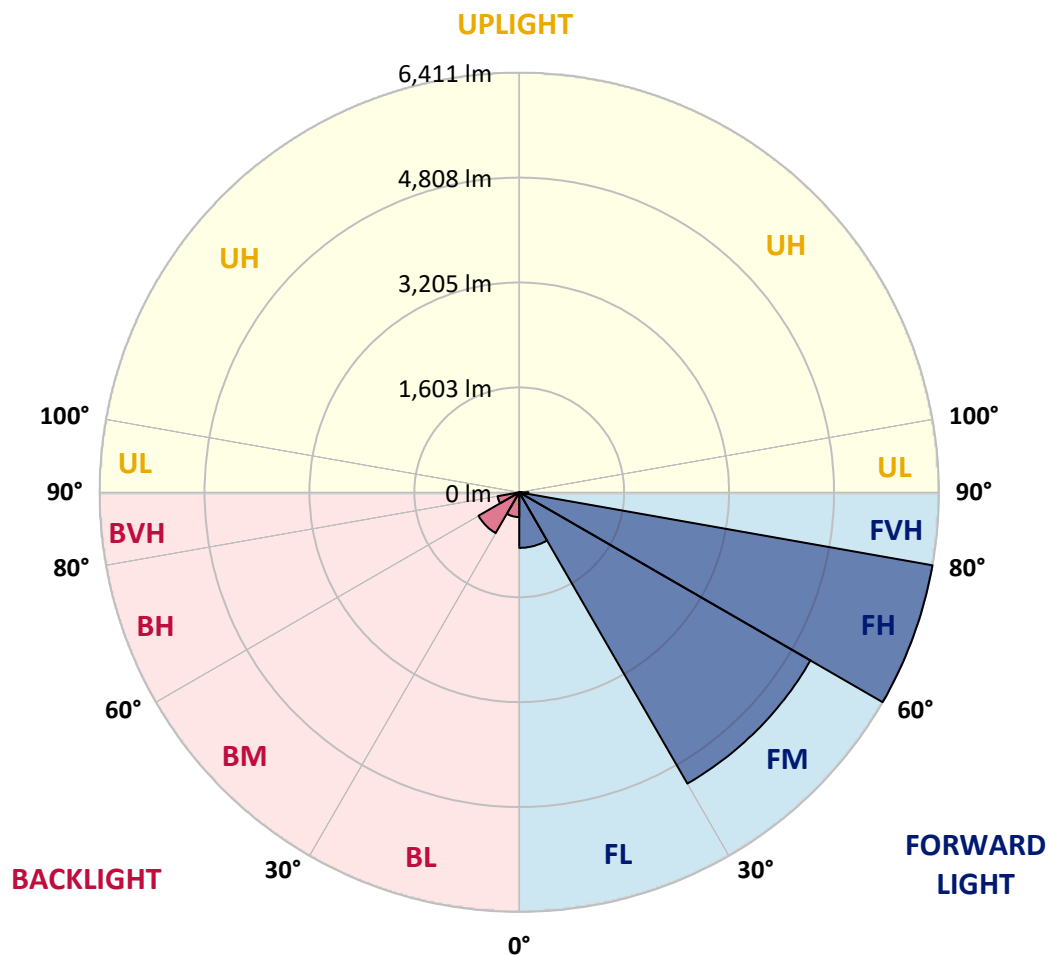
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.9	6.1			
FM	(30°-60°)	5137.4	36.8			
FH	(60°-80°)	6410.8	45.9			G3/7500
FVH	(80°-90°)	140.1	1.0			G2/225
BL	(0°-30°)	377.9	2.7	B1/500		
BM	(30°-60°)	718.5	5.1	B1/1000		
BH	(60°-80°)	336.2	2.4	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8
2.5°	1555.1	1553.1	1544.0	1540.0	1517.8	1504.6	1499.4	1483.0	1459.5	1435.9	1409.7
5°	1732.0	1731.3	1714.3	1697.9	1656.0	1616.7	1609.5	1571.5	1518.4	1468.6	1418.8
7.5°	1912.7	1904.2	1887.2	1855.8	1794.8	1732.0	1726.1	1672.3	1597.0	1525.0	1453.6
10°	2066.0	2060.8	2038.5	1990.7	1919.3	1847.9	1840.7	1774.5	1689.4	1600.9	1509.9
12.5°	2185.2	2181.3	2151.8	2092.2	2016.2	1942.2	1932.4	1873.4	1782.4	1683.5	1576.1
15°	2258.0	2256.0	2220.0	2156.4	2081.7	2017.6	2009.0	1957.3	1872.8	1769.3	1648.1
17.5°	2275.0	2275.6	2238.3	2174.1	2112.5	2066.7	2060.1	2020.8	1950.1	1847.2	1720.2
20°	2237.0	2244.9	2211.4	2155.8	2117.8	2093.5	2088.3	2064.7	2005.1	1908.2	1777.8
22.5°	2183.3	2187.2	2164.3	2126.9	2111.2	2115.8	2113.2	2100.1	2049.7	1960.6	1834.8
25°	2150.5	2150.5	2136.8	2105.3	2115.8	2144.0	2144.6	2142.0	2102.1	2024.8	1904.2
27.5°	2149.2	2145.3	2129.6	2106.0	2134.8	2178.0	2180.7	2198.3	2173.5	2102.7	1990.7
30°	2201.6	2197.0	2163.6	2132.8	2169.5	2216.0	2222.6	2261.2	2248.8	2187.2	2087.0
32.5°	2324.1	2307.7	2233.7	2183.3	2210.8	2266.5	2275.0	2336.6	2356.2	2291.4	2180.0
35°	2491.8	2440.1	2333.3	2278.9	2281.5	2339.8	2347.7	2438.1	2496.4	2387.0	2252.1
37.5°	2723.0	2697.5	2523.9	2378.5	2390.3	2478.7	2501.6	2599.9	2583.5	2439.4	2333.9
40°	3230.1	3190.1	3005.4	2657.5	2494.4	2591.4	2598.6	2651.0	2652.3	2558.0	2504.3
42.5°	3920.5	3904.1	3709.5	3163.9	2699.5	2666.7	2679.8	2768.2	2867.2	2808.2	2805.6
45°	4684.9	4676.4	4470.1	3836.0	3114.1	2913.7	2930.0	3048.6	3237.9	3251.0	3334.2
47.5°	5300.0	5296.1	5177.5	4586.0	3748.9	3332.2	3337.5	3463.2	3796.0	3960.4	4093.4
50°	5860.7	5879.7	5786.1	5397.6	4613.5	3987.9	3975.5	4059.3	4593.9	4863.1	5028.2
52.5°	6640.2	6667.1	6404.4	6154.9	5520.8	4801.5	4791.7	4879.5	5552.9	5754.6	5784.1
55°	7328.7	7282.8	7075.2	7003.1	6627.1	5806.4	5803.7	5881.0	6480.4	6566.2	6620.6
57.5°	7632.6	7615.0	7715.2	7880.3	7785.9	6994.0	6988.1	6929.1	7310.4	7319.5	7486.6
60°	7824.6	7846.2	8153.4	8662.4	8897.5	8272.0	8234.0	7874.4	8103.0	8082.7	8261.5
62.5°	7680.5	7723.0	8275.9	9124.2	9729.5	9387.5	9333.8	8740.3	8780.3	8710.2	8876.6
65°	6915.4	6981.5	7887.5	9037.1	10142.1	10259.4	10205.0	9504.8	9318.1	9202.8	9110.4
67.5°	5615.1	5654.4	6600.3	8279.2	9956.1	10779.5	10768.4	10174.9	9724.2	9119.6	8403.0
69°	4640.4	4679.0	5589.5	7481.3	9546.7	10890.9	10912.5	10389.7	9646.9	8613.9	7445.3
70°	3930.3	3971.6	4819.9	6797.5	9071.8	10839.1	10877.8	10369.4	9425.5	8028.3	6604.9
72.5°	2061.4	2096.8	2967.4	4683.0	7395.5	9952.8	10070.1	9493.0	7989.6	5830.6	3905.4
75°	647.8	668.2	1158.8	2447.9	5063.5	7738.8	7765.6	7446.6	5673.4	3207.1	1626.5
77.5°	247.0	241.1	385.8	902.0	2559.9	4872.9	5037.3	4653.5	2977.2	1133.9	375.3
80°	133.0	133.6	200.4	373.4	1095.2	2504.3	2643.1	2255.3	1057.9	353.7	86.5
82.5°	57.6	60.3	112.7	197.8	503.1	923.6	993.1	826.7	404.2	237.8	32.1
85°	12.4	13.8	54.4	107.4	205.0	259.4	271.8	267.9	257.4	184.7	12.4
87.5°	0.0	0.0	24.2	38.6	51.7	59.0	51.7	67.5	142.1	124.5	6.6
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°	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8	1399.8
2.5°	1401.2	1389.4	1369.1	1346.8	1331.1	1314.7	1301.6	1295.7	1289.1	1284.6	1290.4
5°	1398.5	1375.6	1336.3	1298.3	1270.8	1248.5	1230.2	1223.0	1215.8	1210.5	1209.9
7.5°	1421.5	1389.4	1329.1	1273.4	1230.8	1200.7	1175.8	1165.3	1156.8	1152.9	1149.6
10°	1465.3	1424.1	1343.5	1270.8	1215.8	1164.7	1111.0	1069.7	1042.8	1030.4	1025.8
12.5°	1522.3	1470.6	1371.0	1284.6	1204.6	1106.4	992.4	894.1	830.6	809.6	797.2
15°	1589.2	1525.0	1407.0	1302.2	1164.0	984.5	791.3	662.9	604.0	592.2	579.1
17.5°	1653.3	1582.6	1450.3	1305.5	1074.9	786.7	579.7	492.6	469.7	477.5	479.5
20°	1709.7	1639.6	1492.9	1276.7	913.1	590.2	448.7	427.1	435.6	450.7	453.3
22.5°	1766.7	1694.6	1532.2	1200.7	706.1	448.1	404.2	409.4	417.9	433.0	435.6
25°	1836.1	1761.4	1568.8	1061.2	529.9	381.2	383.9	391.7	400.2	414.0	415.3
27.5°	1916.0	1845.9	1593.1	879.7	393.0	350.5	359.0	370.8	379.3	392.4	395.0
30°	2022.1	1957.3	1600.9	691.7	329.5	322.9	326.9	341.3	353.7	365.5	367.5
32.5°	2121.7	2067.3	1574.7	522.1	305.3	297.4	297.4	305.9	320.3	331.5	334.1
35°	2213.4	2178.0	1490.9	381.9	286.9	273.8	267.3	267.3	276.4	285.6	288.2
37.5°	2334.6	2333.3	1355.3	304.6	269.2	254.2	240.4	229.9	226.6	228.6	229.9
40°	2542.2	2544.2	1178.4	273.2	254.2	233.9	212.9	193.9	176.2	170.3	169.7
42.5°	2866.5	2837.0	993.1	258.1	241.1	212.9	181.4	155.9	128.4	119.9	119.2
45°	3381.4	3206.5	796.5	244.3	227.3	189.3	150.0	115.3	93.0	86.5	86.5
47.5°	4131.4	3691.9	617.1	229.3	209.0	162.5	113.3	83.2	68.1	64.8	65.5
50°	4907.0	4167.4	472.9	210.3	186.7	134.3	83.8	60.3	51.7	51.7	52.4
52.5°	5594.8	4515.9	368.8	190.0	159.2	105.5	63.5	47.2	43.2	42.6	43.2
55°	6238.7	4740.6	282.3	166.4	126.4	78.6	48.5	38.6	36.0	34.7	34.1
57.5°	6859.7	4852.0	211.6	134.3	91.7	57.0	38.6	32.8	30.1	28.2	27.5
60°	7273.0	4761.6	145.4	98.9	63.5	41.3	32.1	28.2	24.9	22.9	22.3
62.5°	7506.2	4514.6	93.7	71.4	45.2	30.8	25.5	23.6	19.0	17.0	17.0
65°	7411.9	4107.2	65.5	51.1	32.8	22.9	19.0	19.0	13.8	11.1	10.5
67.5°	6568.2	3469.8	49.8	38.0	23.6	17.0	14.4	16.4	8.5	5.2	5.2
69°	5651.1	2875.7	42.6	31.4	19.7	13.8	12.4	15.1	5.9	3.9	3.3
70°	4911.6	2480.7	38.6	27.5	16.4	11.8	11.1	14.4	5.9	3.3	2.6
72.5°	2938.6	1383.5	29.5	19.7	10.5	9.2	9.2	16.4	5.9	3.3	2.6
75°	1187.6	487.4	21.6	13.8	7.9	7.9	11.1	21.0	5.2	2.6	2.0
77.5°	269.2	106.8	12.4	8.5	5.2	7.9	13.1	16.4	3.3	1.3	0.0
80°	65.5	26.2	7.9	5.2	3.3	5.9	9.8	9.2	0.7	0.0	0.0
82.5°	21.6	9.2	3.3	2.6	0.7	2.0	4.6	2.6	0.0	0.0	0.0
85°	9.2	5.2	1.3	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	5.9	2.0	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)