

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: P322999

Luminaire Tested: **GAN-SA5B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322999
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-SA5B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 15218 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

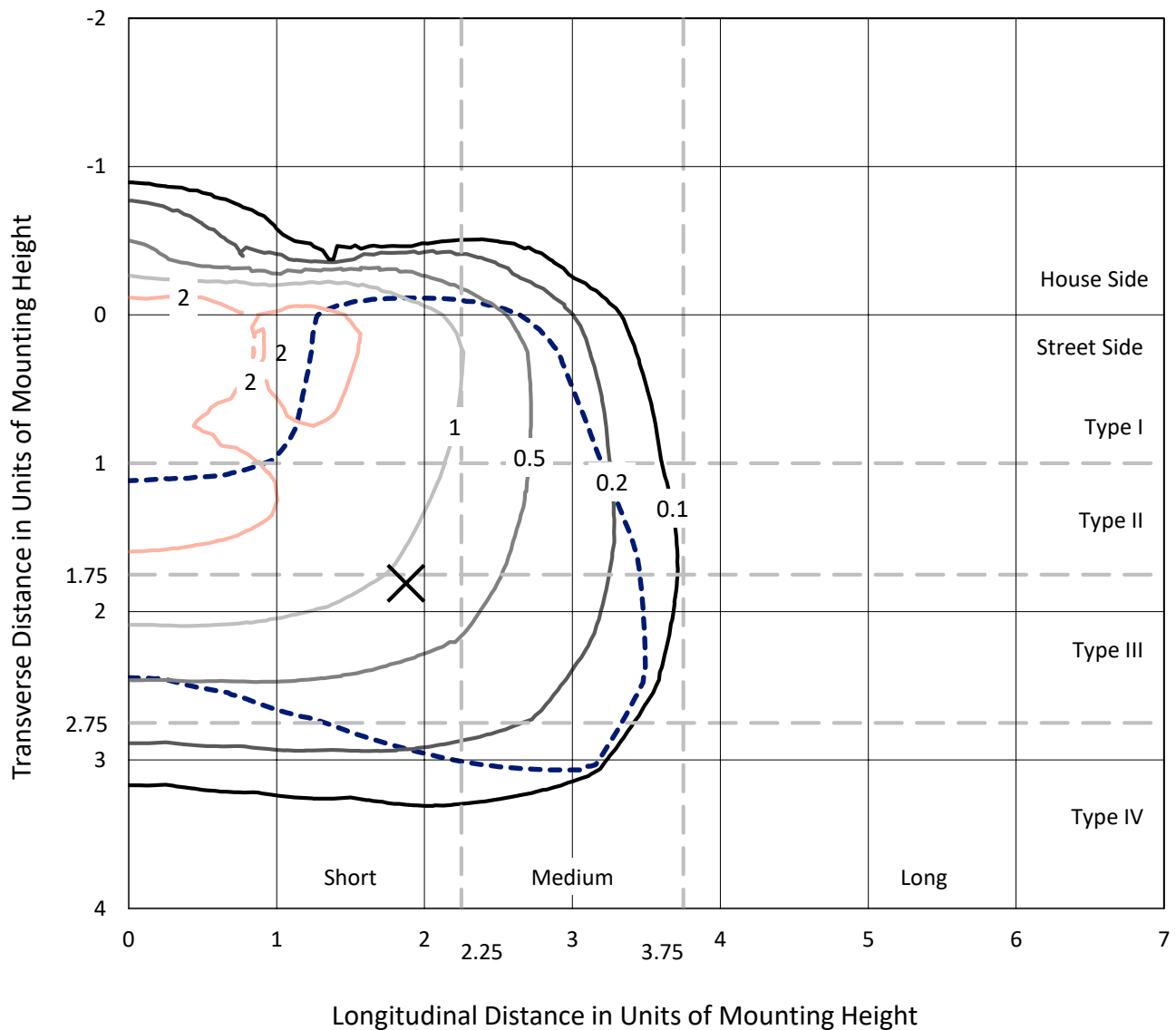
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

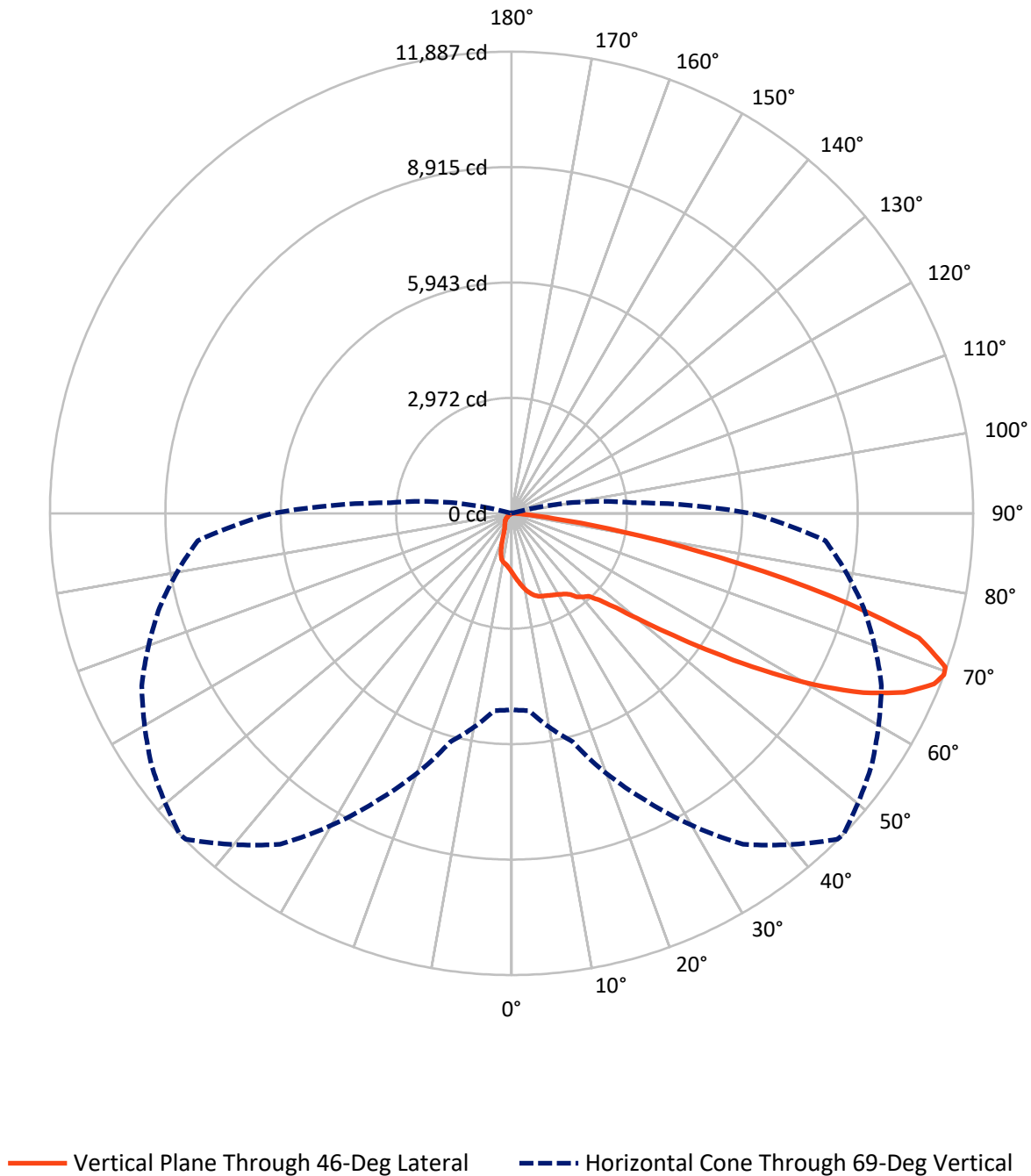
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	1561.8	0.0	1561.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13656.2	0.0	13656.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	15218.0	0.0	15218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	1.0
10°-20°	460.4	3.0
20°-30°	724.1	4.8
30°-40°	1038.4	6.8
40°-50°	1794.7	11.8
50°-60°	3545.6	23.3
60°-70°	4955.3	32.6
70°-80°	2393.9	15.7
80°-90°	153.9	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°	15218.0	100.0
0°-180°	15218.0	100.0

Coefficient of Utilization



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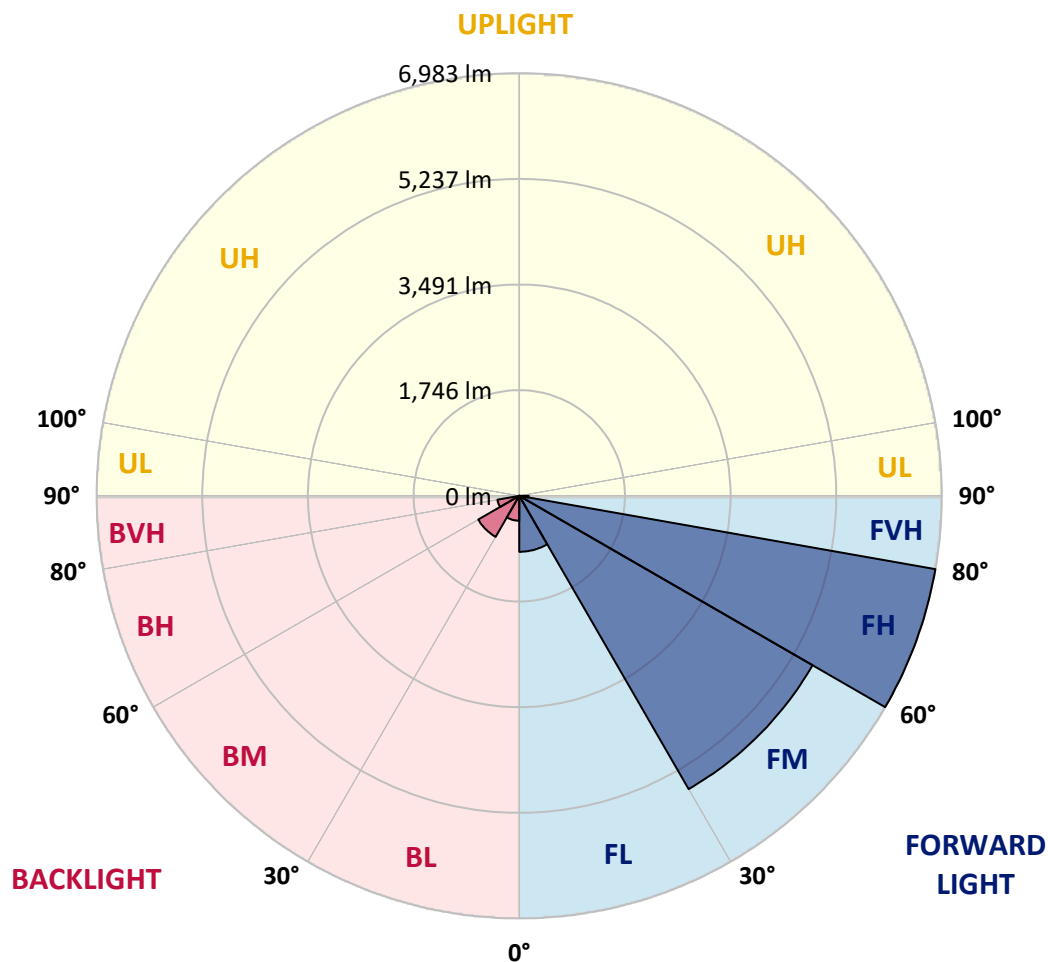
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.7	6.1			
FM	(30°-60°)	5596.0	36.8			
FH	(60°-80°)	6983.0	45.9			G3/7500
FVH	(80°-90°)	152.6	1.0			G2/225
BL	(0°-30°)	411.6	2.7	B1/500		
BM	(30°-60°)	782.6	5.1	B1/1000		
BH	(60°-80°)	366.2	2.4	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8
2.5°	1693.9	1691.7	1681.8	1677.5	1653.2	1638.9	1633.2	1615.4	1589.7	1564.0	1535.5
5°	1886.5	1885.8	1867.3	1849.4	1803.8	1761.0	1753.1	1711.7	1653.9	1599.7	1545.5
7.5°	2083.5	2074.2	2055.6	2021.4	1955.0	1886.5	1880.1	1821.6	1739.6	1661.1	1583.3
10°	2250.4	2244.7	2220.5	2168.4	2090.6	2012.8	2005.0	1932.9	1840.2	1743.8	1644.7
12.5°	2380.3	2376.0	2343.9	2279.0	2196.2	2115.6	2104.9	2040.7	1941.5	1833.7	1716.7
15°	2459.5	2457.4	2418.1	2348.9	2267.6	2197.6	2188.4	2132.0	2039.9	1927.2	1795.2
17.5°	2478.0	2478.8	2438.1	2368.2	2301.1	2251.1	2244.0	2201.2	2124.1	2012.1	1873.7
20°	2436.7	2445.2	2408.8	2348.2	2306.8	2280.4	2274.7	2249.0	2184.1	2078.5	1936.5
22.5°	2378.2	2382.4	2357.5	2316.8	2299.7	2304.7	2301.8	2287.5	2232.6	2135.6	1998.6
25°	2342.5	2342.5	2327.5	2293.2	2304.7	2335.3	2336.1	2333.2	2289.7	2205.5	2074.2
27.5°	2341.1	2336.8	2319.6	2294.0	2325.4	2372.4	2375.3	2394.6	2367.5	2290.4	2168.4
30°	2398.1	2393.1	2356.7	2323.2	2363.2	2413.8	2421.0	2463.1	2449.5	2382.4	2273.3
32.5°	2531.6	2513.7	2433.1	2378.2	2408.1	2468.8	2478.0	2545.1	2566.5	2495.9	2374.6
35°	2714.2	2657.9	2541.5	2482.3	2485.2	2548.7	2557.2	2655.7	2719.2	2600.1	2453.1
37.5°	2966.1	2938.3	2749.2	2590.8	2603.6	2699.9	2724.9	2832.0	2814.1	2657.1	2542.3
40°	3518.4	3474.8	3273.6	2894.7	2717.1	2822.7	2830.5	2887.6	2889.0	2786.3	2727.8
42.5°	4270.4	4252.6	4040.6	3446.3	2940.4	2904.7	2919.0	3015.3	3123.1	3058.8	3056.0
45°	5103.1	5093.8	4869.0	4178.4	3392.1	3173.7	3191.6	3320.7	3526.9	3541.2	3631.8
47.5°	5773.1	5768.8	5639.6	4995.3	4083.5	3629.7	3635.4	3772.4	4134.8	4313.9	4458.8
50°	6383.8	6404.5	6302.5	5879.4	5025.3	4343.9	4330.3	4421.7	5003.9	5297.2	5477.0
52.5°	7232.9	7262.2	6976.1	6704.2	6013.5	5230.1	5219.4	5315.0	6048.5	6268.3	6300.4
55°	7982.8	7932.9	7706.7	7628.2	7218.7	6324.6	6321.8	6406.0	7058.8	7152.3	7211.5
57.5°	8313.9	8294.6	8403.8	8583.6	8480.9	7618.2	7611.8	7547.6	7962.9	7972.8	8154.8
60°	8523.0	8546.5	8881.2	9435.6	9691.7	9010.3	8968.9	8577.2	8826.2	8804.1	8998.9
62.5°	8366.0	8412.4	9014.6	9938.6	10597.9	10225.4	10166.9	9520.5	9564.0	9487.6	9668.9
65°	7532.6	7604.7	8591.5	9843.7	11047.4	11175.1	11115.9	10353.1	10149.8	10024.2	9923.6
67.5°	6116.3	6159.1	7189.4	9018.1	10844.8	11741.6	11729.5	11083.1	10592.2	9933.6	9153.0
69°	5054.6	5096.7	6088.4	8149.1	10398.8	11862.9	11886.5	11317.1	10508.0	9382.8	8109.8
70°	4281.1	4326.1	5250.1	7404.2	9881.5	11806.6	11848.7	11295.0	10266.8	8744.9	7194.4
72.5°	2245.4	2284.0	3232.2	5100.9	8055.6	10841.2	10968.9	10340.3	8702.8	6351.0	4254.0
75°	705.7	727.8	1262.2	2666.4	5515.5	8429.5	8458.7	8111.3	6179.8	3493.4	1771.7
77.5°	269.0	262.6	420.3	982.5	2788.4	5307.9	5486.9	5068.8	3242.9	1235.1	408.8
80°	144.8	145.6	218.3	406.7	1193.0	2727.8	2879.0	2456.6	1152.3	385.3	94.2
82.5°	62.8	65.6	122.7	215.5	548.0	1006.1	1081.7	900.5	440.2	259.0	35.0
85°	13.6	15.0	59.2	117.0	223.3	282.6	296.1	291.8	280.4	201.2	13.6
87.5°	0.0	0.0	26.4	42.1	56.4	64.2	56.4	73.5	154.8	135.6	7.1
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°	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8	1524.8
2.5°	1526.2	1513.4	1491.3	1467.0	1449.9	1432.0	1417.8	1411.3	1404.2	1399.2	1405.6
5°	1523.4	1498.4	1455.6	1414.2	1384.2	1360.0	1340.0	1332.1	1324.3	1318.6	1317.9
7.5°	1548.3	1513.4	1447.7	1387.1	1340.7	1307.9	1280.8	1269.3	1260.1	1255.8	1252.2
10°	1596.1	1551.2	1463.4	1384.2	1324.3	1268.6	1210.1	1165.2	1135.9	1122.4	1117.4
12.5°	1658.2	1601.8	1493.4	1399.2	1312.2	1205.1	1081.0	974.0	904.7	881.9	868.4
15°	1731.0	1661.1	1532.6	1418.5	1267.9	1072.4	861.9	722.1	657.9	645.0	630.7
17.5°	1800.9	1723.9	1579.7	1422.0	1170.9	856.9	631.5	536.6	511.6	520.2	522.3
20°	1862.3	1785.9	1626.1	1390.6	994.6	642.9	488.8	465.2	474.5	490.9	493.8
22.5°	1924.4	1845.9	1668.9	1307.9	769.2	488.0	440.2	445.9	455.2	471.6	474.5
25°	2000.0	1918.6	1708.9	1155.9	577.2	415.3	418.1	426.7	436.0	450.9	452.4
27.5°	2087.0	2010.7	1735.3	958.3	428.1	381.7	391.0	403.9	413.1	427.4	430.3
30°	2202.6	2132.0	1743.8	753.5	358.9	351.8	356.0	371.7	385.3	398.1	400.3
32.5°	2311.1	2251.9	1715.3	568.7	332.5	323.9	323.9	333.2	348.9	361.0	363.9
35°	2411.0	2372.4	1624.0	416.0	312.5	298.3	291.1	291.1	301.1	311.1	313.9
37.5°	2543.0	2541.5	1476.3	331.8	293.3	276.8	261.9	250.4	246.9	249.0	250.4
40°	2769.2	2771.3	1283.6	297.5	276.8	254.7	231.9	211.2	191.9	185.5	184.8
42.5°	3122.4	3090.2	1081.7	281.1	262.6	231.9	197.6	169.8	139.8	130.6	129.9
45°	3683.2	3492.7	867.6	266.1	247.6	206.2	163.4	125.6	101.3	94.2	94.2
47.5°	4500.2	4021.4	672.1	249.7	227.6	177.0	123.4	90.6	74.2	70.6	71.4
50°	5345.0	4539.4	515.2	229.0	203.4	146.3	91.3	65.6	56.4	56.4	57.1
52.5°	6094.2	4919.0	401.7	206.9	173.4	114.9	69.2	51.4	47.1	46.4	47.1
55°	6795.5	5163.7	307.5	181.2	137.7	85.6	52.8	42.1	39.2	37.8	37.1
57.5°	7472.0	5285.0	230.5	146.3	99.9	62.1	42.1	35.7	32.8	30.7	30.0
60°	7922.2	5186.6	158.4	107.7	69.2	45.0	35.0	30.7	27.1	25.0	24.3
62.5°	8176.2	4917.6	102.0	77.8	49.2	33.5	27.8	25.7	20.7	18.6	18.6
65°	8073.4	4473.8	71.4	55.7	35.7	25.0	20.7	20.7	15.0	12.1	11.4
67.5°	7154.4	3779.5	54.2	41.4	25.7	18.6	15.7	17.8	9.3	5.7	5.7
69°	6155.5	3132.3	46.4	34.2	21.4	15.0	13.6	16.4	6.4	4.3	3.6
70°	5350.0	2702.1	42.1	30.0	17.8	12.8	12.1	15.7	6.4	3.6	2.9
72.5°	3200.8	1506.9	32.1	21.4	11.4	10.0	10.0	17.8	6.4	3.6	2.9
75°	1293.6	530.9	23.5	15.0	8.6	8.6	12.1	22.8	5.7	2.9	2.1
77.5°	293.3	116.3	13.6	9.3	5.7	8.6	14.3	17.8	3.6	1.4	0.0
80°	71.4	28.5	8.6	5.7	3.6	6.4	10.7	10.0	0.7	0.0	0.0
82.5°	23.5	10.0	3.6	2.9	0.7	2.1	5.0	2.9	0.0	0.0	0.0
85°	10.0	5.7	1.4	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	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)