

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: P322790

Luminaire Tested: **GAN-SA6A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322790
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-SA6A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 16894 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

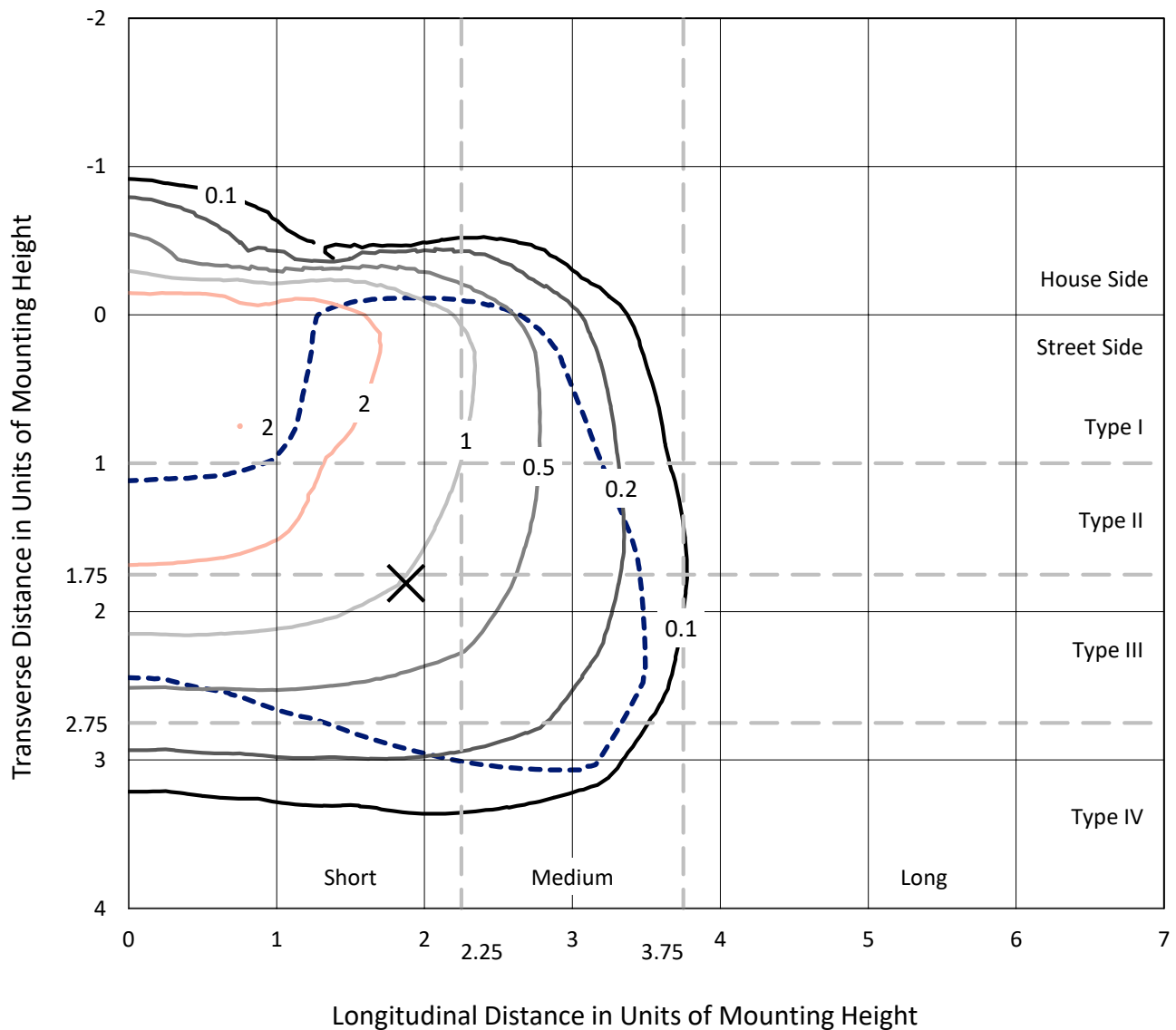
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

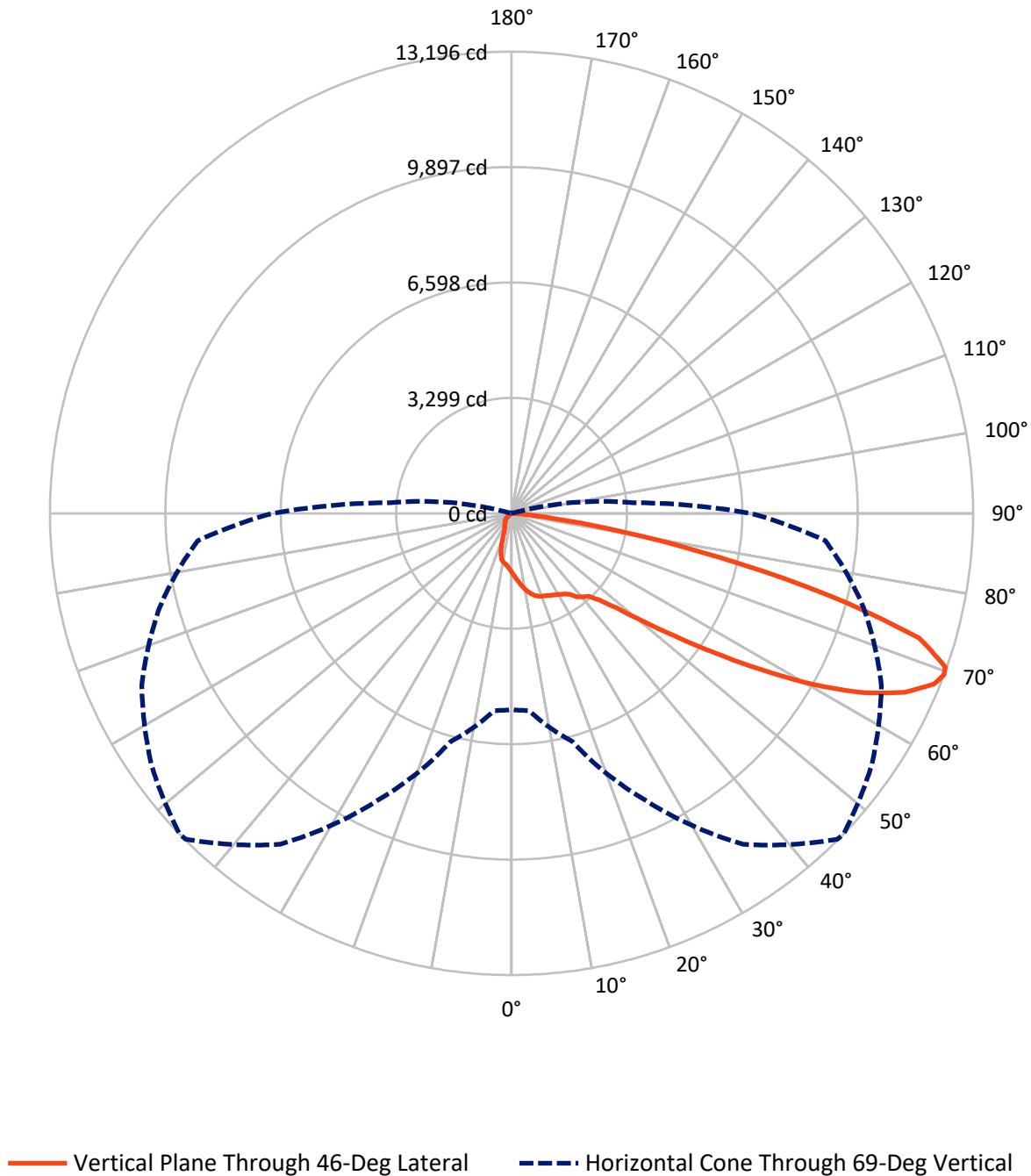
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1733.8	0.0	1733.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15160.2	0.0	15160.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	16894.0	0.0	16894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.0
10°-20°	511.1	3.0
20°-30°	803.9	4.8
30°-40°	1152.7	6.8
40°-50°	1992.3	11.8
50°-60°	3936.1	23.3
60°-70°	5501.0	32.6
70°-80°	2657.6	15.7
80°-90°	170.8	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°	16894.0	100.0
0°-180°	16894.0	100.0

Coefficient of Utilization



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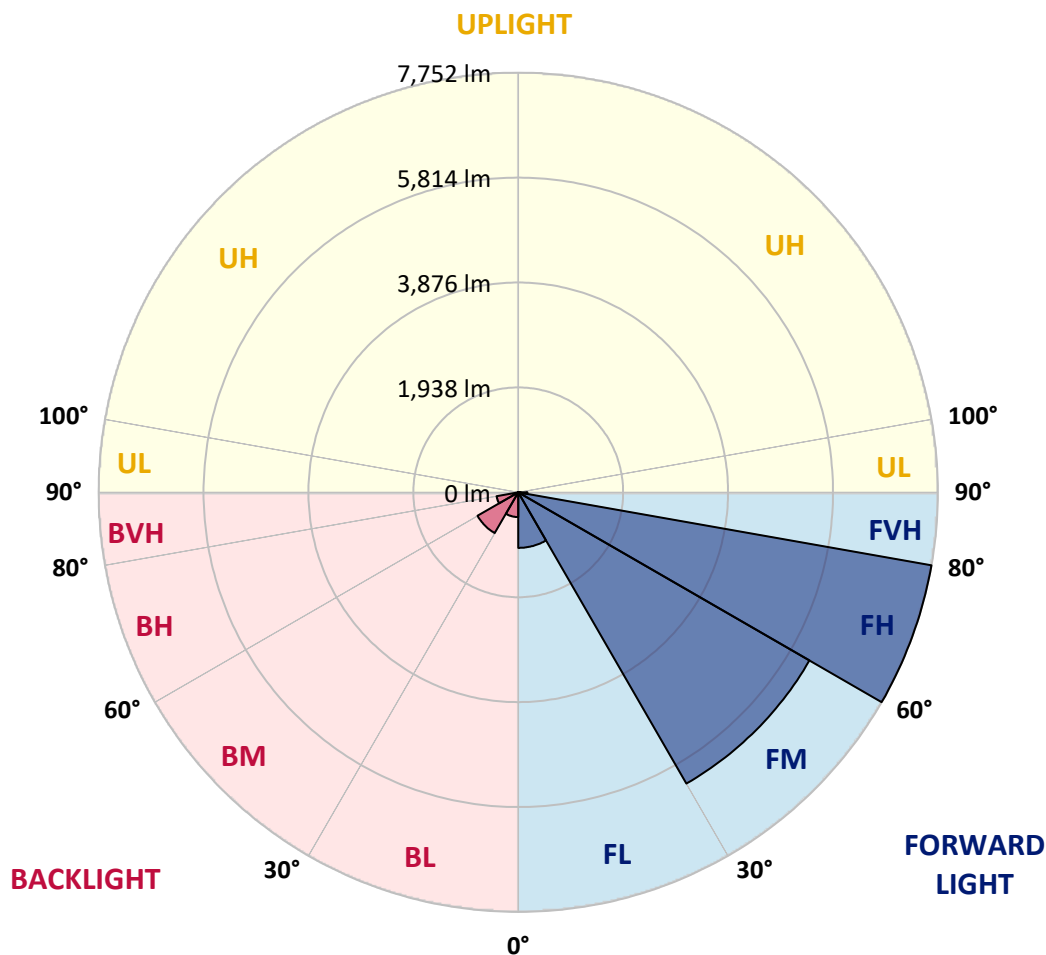
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1026.5	6.1			
FM	(30°-60°)	6212.3	36.8			
FH	(60°-80°)	7752.0	45.9			G4/12000
FVH	(80°-90°)	169.4	1.0			G2/225
BL	(0°-30°)	457.0	2.7	B1/500		
BM	(30°-60°)	868.8	5.1	B1/1000		
BH	(60°-80°)	406.5	2.4	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7
2.5°	1880.4	1878.1	1867.0	1862.2	1835.3	1819.5	1813.1	1793.3	1764.8	1736.3	1704.6
5°	2094.3	2093.5	2072.9	2053.1	2002.4	1954.9	1946.2	1900.2	1836.1	1775.9	1715.7
7.5°	2312.9	2302.6	2282.0	2244.0	2170.4	2094.3	2087.2	2022.2	1931.1	1844.0	1757.7
10°	2498.3	2491.9	2465.0	2407.2	2320.9	2234.5	2225.8	2145.8	2042.8	1935.9	1825.8
12.5°	2642.4	2637.7	2602.0	2530.0	2438.1	2348.6	2336.7	2265.4	2155.3	2035.7	1905.8
15°	2730.4	2728.0	2684.4	2607.6	2517.3	2439.7	2429.4	2366.8	2264.6	2139.5	1992.9
17.5°	2751.0	2751.8	2706.6	2629.0	2554.5	2499.1	2491.2	2443.6	2358.1	2233.7	2080.1
20°	2705.0	2714.5	2674.1	2606.8	2560.9	2531.5	2525.2	2496.7	2424.6	2307.4	2149.8
22.5°	2640.1	2644.8	2617.1	2571.9	2552.9	2558.5	2555.3	2539.5	2478.5	2370.8	2218.7
25°	2600.5	2600.5	2583.8	2545.8	2558.5	2592.5	2593.3	2590.2	2541.8	2448.4	2302.6
27.5°	2598.9	2594.1	2575.1	2546.6	2581.5	2633.7	2636.9	2658.3	2628.2	2542.6	2407.2
30°	2662.2	2656.7	2616.3	2579.1	2623.4	2679.7	2687.6	2734.3	2719.3	2644.8	2523.6
32.5°	2810.4	2790.6	2701.1	2640.1	2673.3	2740.7	2751.0	2825.4	2849.2	2770.8	2636.1
35°	3013.1	2950.6	2821.5	2755.7	2758.9	2829.4	2838.9	2948.2	3018.7	2886.4	2723.2
37.5°	3292.8	3261.9	3052.0	2876.1	2890.4	2997.3	3025.0	3143.8	3124.0	2949.8	2822.2
40°	3905.8	3857.5	3634.2	3213.5	3016.3	3133.5	3142.3	3205.6	3207.2	3093.1	3028.2
42.5°	4740.7	4720.9	4485.7	3825.8	3264.2	3224.6	3240.5	3347.4	3467.0	3395.7	3392.6
45°	5665.1	5654.8	5405.3	4638.5	3765.6	3523.3	3543.1	3686.4	3915.3	3931.2	4031.8
47.5°	6408.9	6404.1	6260.8	5545.5	4533.2	4029.4	4035.7	4187.8	4590.2	4789.0	4949.8
50°	7086.9	7109.9	6996.6	6526.9	5578.8	4822.3	4807.2	4908.6	5555.0	5880.5	6080.2
52.5°	8029.5	8062.0	7744.4	7442.6	6675.8	5806.1	5794.2	5900.3	6714.6	6958.6	6994.2
55°	8862.0	8806.6	8555.5	8468.3	8013.7	7021.2	7018.0	7111.5	7836.2	7940.0	8005.7
57.5°	9229.5	9208.2	9329.3	9529.0	9414.9	8457.2	8450.1	8378.8	8839.8	8850.9	9052.9
60°	9461.6	9487.8	9859.3	10474.7	10759.1	10002.6	9956.7	9521.8	9798.3	9773.7	9990.0
62.5°	9287.4	9338.8	10007.4	11033.1	11765.0	11351.6	11286.6	10569.0	10617.3	10532.5	10733.7
65°	8362.2	8442.2	9537.7	10927.8	12264.1	12405.9	12340.1	11493.4	11267.6	11128.2	11016.5
67.5°	6789.9	6837.4	7981.2	10011.3	12039.1	13034.8	13021.3	12303.7	11758.7	11027.6	10161.0
69°	5611.2	5658.0	6759.0	9046.6	11544.1	13169.4	13195.6	12563.5	11665.2	10416.1	9003.0
70°	4752.6	4802.5	5828.3	8219.6	10969.8	13106.9	13153.6	12538.9	11397.5	9708.0	7986.7
72.5°	2492.7	2535.5	3588.2	5662.7	8942.8	12035.2	12176.9	11479.1	9661.2	7050.5	4722.5
75°	783.4	807.9	1401.2	2960.1	6122.9	9357.9	9390.3	9004.6	6860.4	3878.1	1966.8
77.5°	298.6	291.5	466.5	1090.7	3095.5	5892.4	6091.2	5627.1	3600.1	1371.1	453.9
80°	160.8	161.6	242.4	451.5	1324.4	3028.2	3196.1	2727.2	1279.2	427.7	104.6
82.5°	69.7	72.9	136.2	239.2	608.3	1116.9	1200.8	999.6	488.7	287.5	38.8
85°	15.0	16.6	65.7	129.9	247.9	313.7	328.7	324.0	311.3	223.4	15.0
87.5°	0.0	0.0	29.3	46.7	62.6	71.3	62.6	81.6	171.9	150.5	7.9
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°	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7	1692.7
2.5°	1694.3	1680.0	1655.5	1628.6	1609.5	1589.7	1573.9	1566.8	1558.9	1553.3	1560.4
5°	1691.1	1663.4	1615.9	1569.9	1536.7	1509.7	1487.6	1478.8	1470.1	1463.8	1463.0
7.5°	1718.9	1680.0	1607.2	1539.8	1488.4	1451.9	1421.8	1409.1	1398.8	1394.1	1390.1
10°	1771.9	1722.0	1624.6	1536.7	1470.1	1408.4	1343.4	1293.5	1261.0	1246.0	1240.4
12.5°	1840.8	1778.3	1657.9	1553.3	1456.7	1337.9	1200.0	1081.2	1004.4	979.0	964.0
15°	1921.6	1844.0	1701.4	1574.7	1407.6	1190.5	956.9	801.6	730.3	716.1	700.2
17.5°	1999.3	1913.7	1753.7	1578.7	1299.8	951.3	701.0	595.7	567.9	577.4	579.8
20°	2067.4	1982.6	1805.2	1543.8	1104.2	713.7	542.6	516.4	526.7	545.0	548.1
22.5°	2136.3	2049.2	1852.7	1451.9	853.9	541.8	488.7	495.1	505.4	523.6	526.7
25°	2220.3	2130.0	1897.1	1283.2	640.8	461.0	464.2	473.7	484.0	500.6	502.2
27.5°	2316.9	2232.1	1926.4	1063.8	475.3	423.8	434.1	448.3	458.6	474.5	477.6
30°	2445.2	2366.8	1935.9	836.5	398.4	390.5	395.3	412.7	427.7	442.0	444.4
32.5°	2565.6	2499.9	1904.2	631.3	369.1	359.6	359.6	369.9	387.3	400.8	404.0
35°	2676.5	2633.7	1802.8	461.8	346.9	331.1	323.2	323.2	334.3	345.4	348.5
37.5°	2823.0	2821.5	1638.9	368.3	325.6	307.3	290.7	278.0	274.1	276.4	278.0
40°	3074.1	3076.5	1425.0	330.3	307.3	282.8	257.4	234.5	213.1	205.9	205.2
42.5°	3466.2	3430.6	1200.8	312.1	291.5	257.4	219.4	188.5	155.3	145.0	144.2
45°	4088.8	3877.3	963.2	295.5	274.9	228.9	181.4	139.4	112.5	104.6	104.6
47.5°	4995.8	4464.3	746.2	277.2	252.7	196.4	137.0	100.6	82.4	78.4	79.2
50°	5933.6	5039.3	571.9	254.3	225.7	162.4	101.4	72.9	62.6	62.6	63.4
52.5°	6765.3	5460.7	446.0	229.7	192.5	127.5	76.8	57.0	52.3	51.5	52.3
55°	7544.0	5732.4	341.4	201.2	152.9	95.1	58.6	46.7	43.6	42.0	41.2
57.5°	8294.9	5867.1	255.8	162.4	110.9	68.9	46.7	39.6	36.4	34.1	33.3
60°	8794.7	5757.8	175.8	119.6	76.8	49.9	38.8	34.1	30.1	27.7	26.9
62.5°	9076.7	5459.1	113.3	86.3	54.7	37.2	30.9	28.5	23.0	20.6	20.6
65°	8962.6	4966.5	79.2	61.8	39.6	27.7	23.0	23.0	16.6	13.5	12.7
67.5°	7942.4	4195.7	60.2	45.9	28.5	20.6	17.4	19.8	10.3	6.3	6.3
69°	6833.4	3477.3	51.5	38.0	23.8	16.6	15.0	18.2	7.1	4.8	4.0
70°	5939.2	2999.7	46.7	33.3	19.8	14.3	13.5	17.4	7.1	4.0	3.2
72.5°	3553.4	1672.9	35.6	23.8	12.7	11.1	11.1	19.8	7.1	4.0	3.2
75°	1436.1	589.3	26.1	16.6	9.5	9.5	13.5	25.3	6.3	3.2	2.4
77.5°	325.6	129.1	15.0	10.3	6.3	9.5	15.8	19.8	4.0	1.6	0.0
80°	79.2	31.7	9.5	6.3	4.0	7.1	11.9	11.1	0.8	0.0	0.0
82.5°	26.1	11.1	4.0	3.2	0.8	2.4	5.5	3.2	0.0	0.0	0.0
85°	11.1	6.3	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	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)