

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: P323030

Luminaire Tested: **GAN-SA6A-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323030
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-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 16053 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

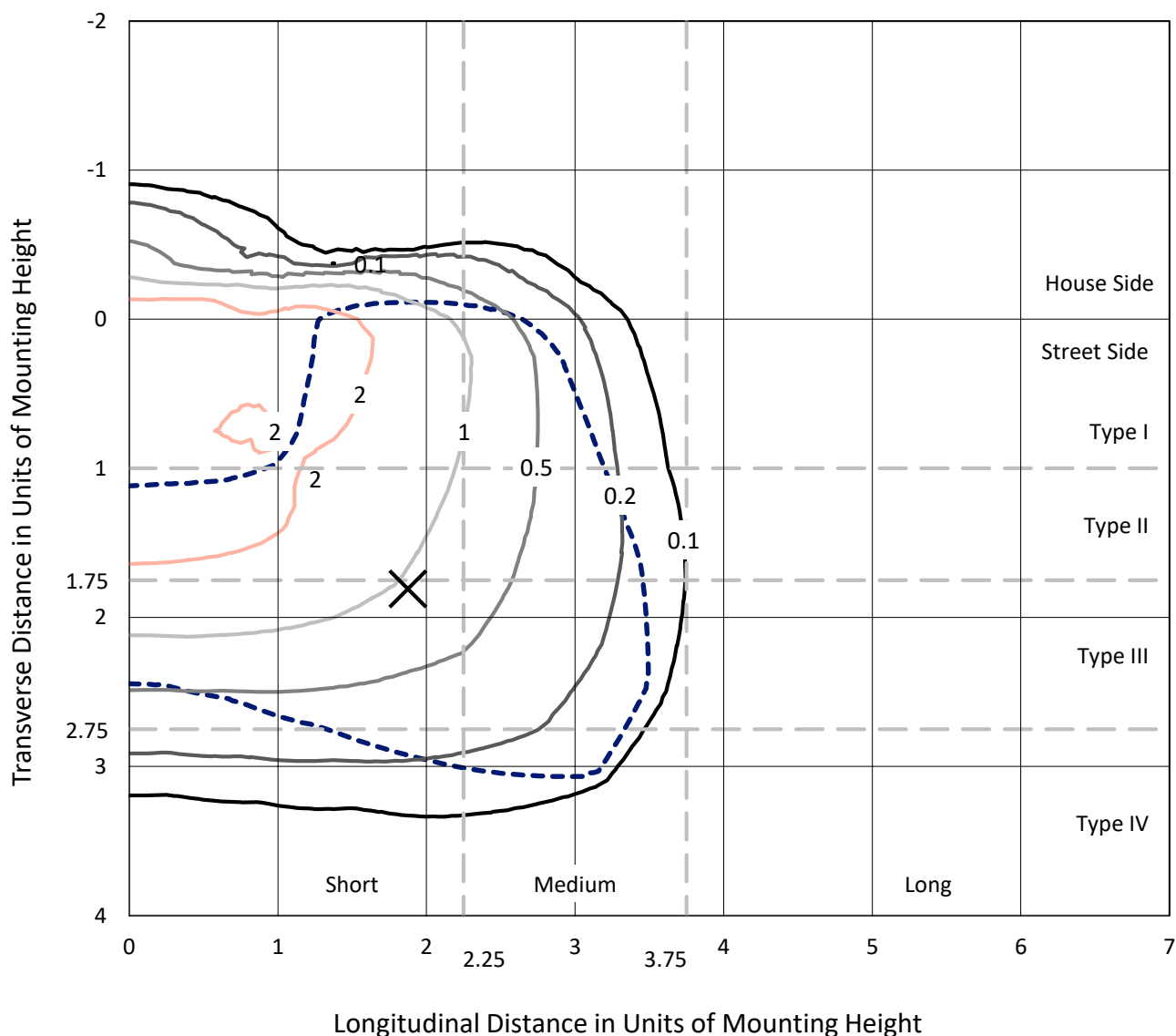
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

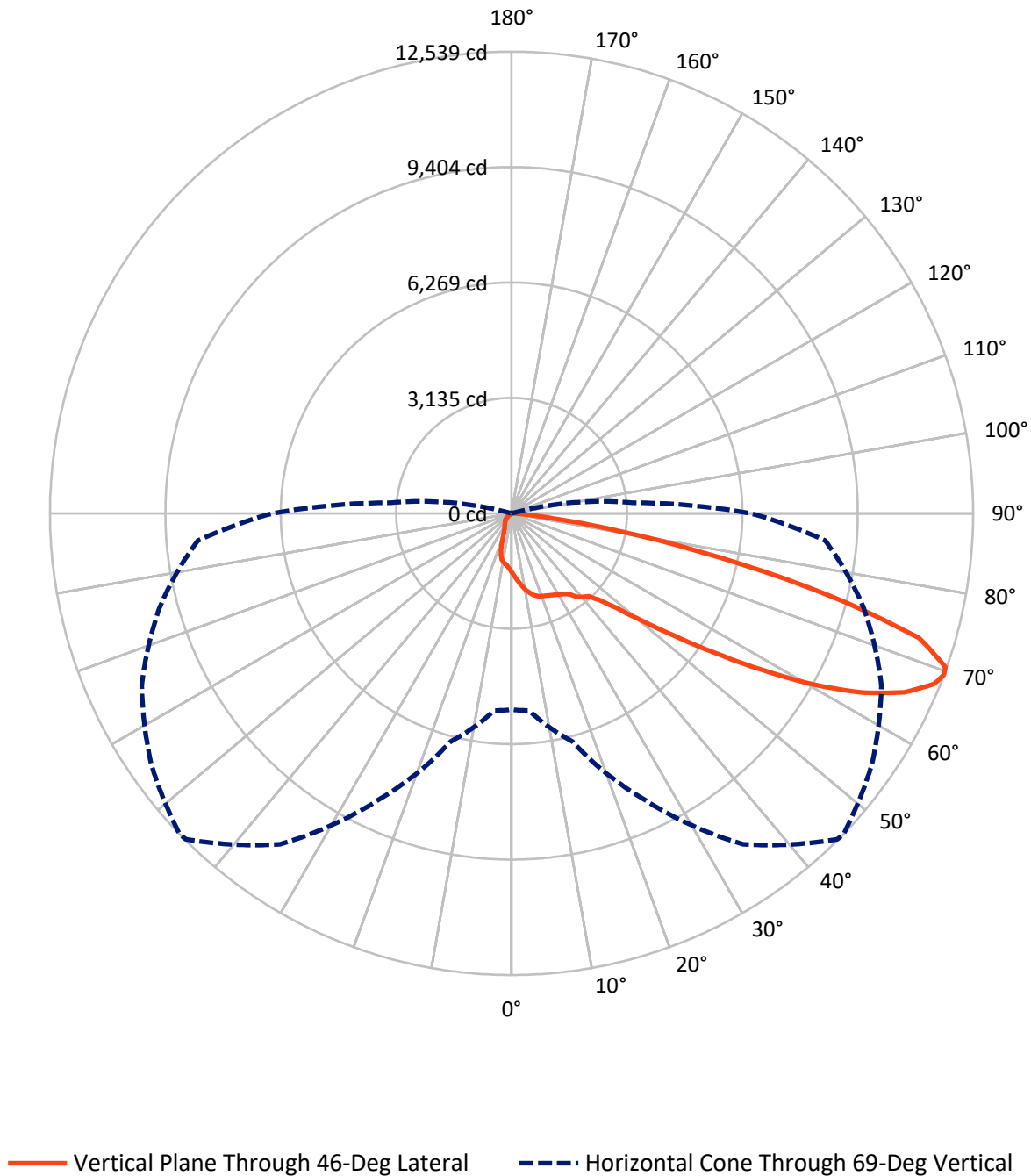
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1647.5	0.0	1647.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14405.5	0.0	14405.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	16053.0	0.0	16053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.0
10°-20°	485.7	3.0
20°-30°	763.8	4.8
30°-40°	1095.3	6.8
40°-50°	1893.2	11.8
50°-60°	3740.1	23.3
60°-70°	5227.2	32.6
70°-80°	2525.3	15.7
80°-90°	162.3	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°	16053.0	100.0
0°-180°	16053.0	100.0

Coefficient of Utilization



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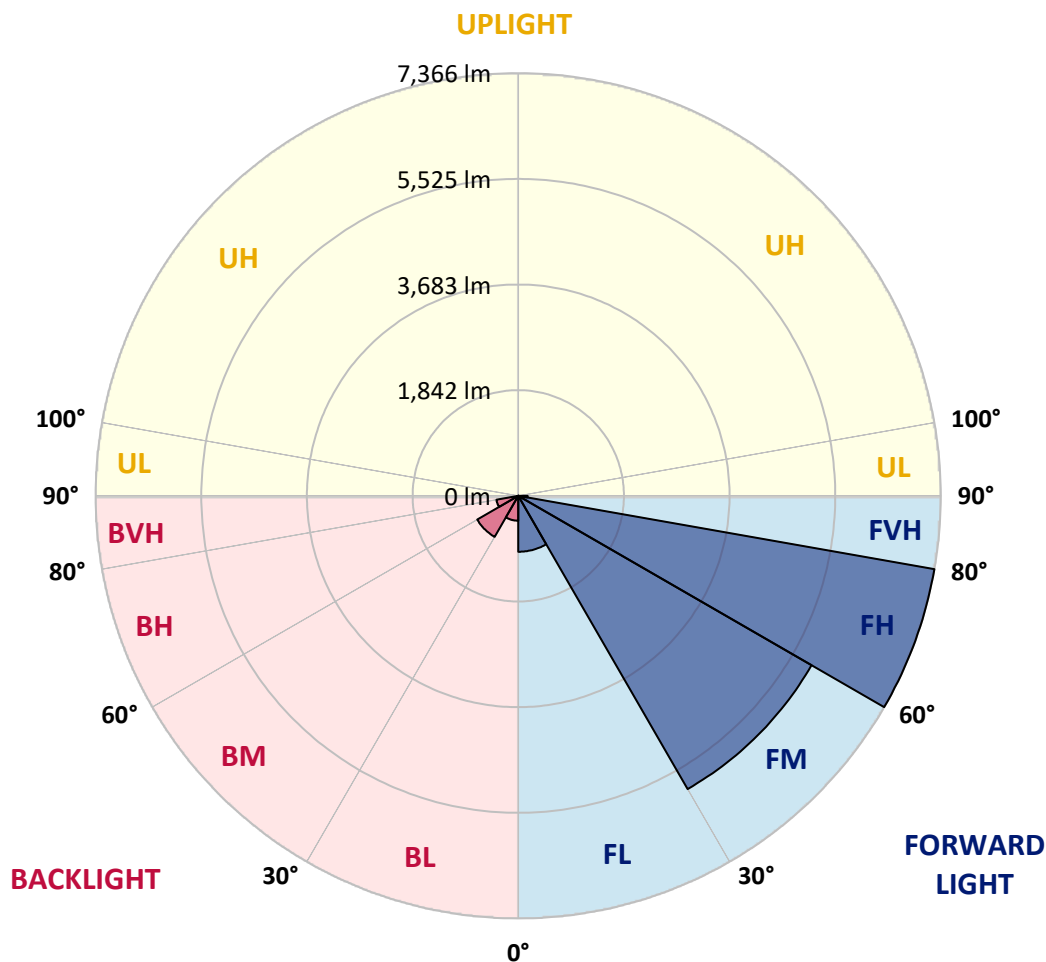
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	975.4	6.1			
FM	(30°-60°)	5903.0	36.8			
FH	(60°-80°)	7366.1	45.9			G3/7500
FVH	(80°-90°)	160.9	1.0			G2/225
BL	(0°-30°)	434.2	2.7	B1/500		
BM	(30°-60°)	825.6	5.1	B1/1000		
BH	(60°-80°)	386.3	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5
2.5°	1786.8	1784.6	1774.0	1769.5	1743.9	1728.9	1722.9	1704.0	1676.9	1649.8	1619.7
5°	1990.1	1989.3	1969.7	1950.9	1902.7	1857.6	1849.3	1805.6	1744.7	1687.5	1630.3
7.5°	2197.8	2188.0	2168.4	2132.3	2062.3	1990.1	1983.3	1921.6	1835.0	1752.2	1670.2
10°	2373.9	2367.9	2342.3	2287.4	2205.3	2123.3	2115.0	2039.0	1941.1	1839.5	1734.9
12.5°	2510.9	2506.4	2472.5	2404.0	2316.7	2231.7	2220.4	2152.6	2048.0	1934.4	1810.9
15°	2594.4	2592.2	2550.8	2477.8	2392.0	2318.2	2308.4	2249.0	2151.9	2033.0	1893.7
17.5°	2614.0	2614.8	2571.9	2498.1	2427.4	2374.7	2367.1	2322.0	2240.7	2122.5	1976.5
20°	2570.4	2579.4	2541.0	2477.0	2433.4	2405.5	2399.5	2372.4	2303.9	2192.5	2042.7
22.5°	2508.6	2513.2	2486.8	2443.9	2425.8	2431.1	2428.1	2413.1	2355.1	2252.7	2108.2
25°	2471.0	2471.0	2455.2	2419.1	2431.1	2463.5	2464.2	2461.2	2415.3	2326.5	2188.0
27.5°	2469.5	2465.0	2446.9	2419.8	2452.9	2502.6	2505.6	2526.0	2497.4	2416.1	2287.4
30°	2529.7	2524.4	2486.1	2450.7	2492.8	2546.3	2553.8	2598.2	2583.9	2513.2	2398.0
32.5°	2670.5	2651.6	2566.6	2508.6	2540.3	2604.2	2614.0	2684.8	2707.3	2632.8	2504.9
35°	2863.1	2803.7	2681.0	2618.5	2621.5	2688.5	2697.6	2801.4	2868.4	2742.7	2587.7
37.5°	3128.8	3099.5	2900.0	2732.9	2746.5	2848.1	2874.4	2987.3	2968.5	2802.9	2681.8
40°	3711.4	3665.5	3453.2	3053.6	2866.2	2977.6	2985.8	3046.0	3047.6	2939.2	2877.4
42.5°	4504.7	4485.9	4262.4	3635.4	3101.7	3064.1	3079.2	3180.8	3294.4	3226.7	3223.7
45°	5383.1	5373.3	5136.2	4407.6	3578.2	3347.9	3366.7	3502.9	3720.4	3735.5	3831.1
47.5°	6089.8	6085.3	5949.1	5269.4	4307.5	3828.8	3834.8	3979.4	4361.7	4550.6	4703.4
50°	6734.1	6755.9	6648.3	6202.0	5301.0	4582.2	4567.9	4664.3	5278.5	5587.8	5777.5
52.5°	7629.8	7660.7	7358.8	7072.1	6343.5	5517.1	5505.8	5606.6	6380.4	6612.2	6646.1
55°	8420.8	8368.2	8129.6	8046.8	7614.7	6671.6	6668.6	6757.4	7446.1	7544.7	7607.2
57.5°	8770.1	8749.8	8864.9	9054.6	8946.2	8036.2	8029.5	7961.7	8399.8	8410.3	8602.2
60°	8990.6	9015.5	9368.5	9953.3	10223.5	9504.7	9461.0	9047.8	9310.5	9287.2	9492.6
62.5°	8825.0	8874.0	9509.2	10483.9	11179.4	10786.5	10724.8	10042.8	10088.8	10008.2	10199.4
65°	7945.9	8021.9	9062.9	10383.8	11653.6	11788.3	11725.8	10921.2	10706.7	10574.2	10468.1
67.5°	6451.9	6497.0	7583.9	9513.0	11439.8	12385.9	12373.1	11691.2	11173.4	10478.6	9655.2
69°	5331.9	5376.3	6422.5	8596.2	10969.4	12513.9	12538.7	11938.1	11084.5	9897.6	8554.8
70°	4516.0	4563.4	5538.1	7810.4	10423.7	12454.4	12498.8	11914.7	10830.1	9224.7	7589.1
72.5°	2368.6	2409.3	3409.6	5380.8	8497.6	11436.0	11570.8	10907.7	9180.3	6699.5	4487.4
75°	744.4	767.7	1331.5	2812.7	5818.1	8892.0	8922.9	8556.3	6518.9	3685.1	1868.9
77.5°	283.8	277.0	443.3	1036.4	2941.4	5599.1	5788.0	5347.0	3420.9	1302.9	431.3
80°	152.8	153.5	230.3	429.0	1258.5	2877.4	3037.0	2591.4	1215.6	406.4	99.4
82.5°	66.2	69.2	129.5	227.3	578.0	1061.3	1141.0	949.9	464.4	273.2	36.9
85°	14.3	15.8	62.5	123.4	235.6	298.1	312.4	307.8	295.8	212.3	14.3
87.5°	0.0	0.0	27.8	44.4	59.5	67.7	59.5	77.5	163.3	143.0	7.5
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°	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5	1608.5
2.5°	1610.0	1596.4	1573.1	1547.5	1529.4	1510.6	1495.6	1488.8	1481.2	1476.0	1482.8
5°	1606.9	1580.6	1535.4	1491.8	1460.2	1434.6	1413.5	1405.2	1397.0	1390.9	1390.2
7.5°	1633.3	1596.4	1527.2	1463.2	1414.3	1379.6	1351.0	1339.0	1329.2	1324.7	1320.9
10°	1683.7	1636.3	1543.7	1460.2	1397.0	1338.2	1276.5	1229.1	1198.2	1183.9	1178.7
12.5°	1749.2	1689.7	1575.3	1476.0	1384.2	1271.3	1140.3	1027.4	954.4	930.3	916.0
15°	1826.0	1752.2	1616.7	1496.3	1337.5	1131.3	909.2	761.7	694.0	680.4	665.4
17.5°	1899.7	1818.4	1666.4	1500.1	1235.1	904.0	666.1	566.0	539.7	548.7	551.0
20°	1964.5	1883.9	1715.3	1466.9	1049.2	678.2	515.6	490.7	500.5	517.8	520.8
22.5°	2029.9	1947.2	1760.5	1379.6	811.4	514.8	464.4	470.4	480.2	497.5	500.5
25°	2109.7	2023.9	1802.6	1219.3	608.9	438.1	441.1	450.1	459.9	475.7	477.2
27.5°	2201.6	2121.0	1830.5	1010.8	451.6	402.7	412.5	426.0	435.8	450.8	453.9
30°	2323.5	2249.0	1839.5	794.8	378.6	371.1	375.6	392.1	406.4	420.0	422.2
32.5°	2437.9	2375.4	1809.4	599.9	350.7	341.7	341.7	351.5	368.1	380.8	383.9
35°	2543.3	2502.6	1713.1	438.8	329.7	314.6	307.1	307.1	317.6	328.2	331.2
37.5°	2682.5	2681.0	1557.3	350.0	309.3	292.0	276.2	264.2	260.4	262.7	264.2
40°	2921.1	2923.4	1354.0	313.9	292.0	268.7	244.6	222.8	202.5	195.7	194.9
42.5°	3293.7	3259.8	1141.0	296.6	277.0	244.6	208.5	179.1	147.5	137.7	137.0
45°	3885.3	3684.3	915.2	280.7	261.2	217.5	172.4	132.5	106.9	99.4	99.4
47.5°	4747.1	4242.0	709.0	263.4	240.1	186.7	130.2	95.6	78.3	74.5	75.3
50°	5638.2	4788.5	543.4	241.6	214.5	154.3	96.3	69.2	59.5	59.5	60.2
52.5°	6428.5	5188.9	423.8	218.3	182.9	121.2	73.0	54.2	49.7	48.9	49.7
55°	7168.4	5447.1	324.4	191.2	145.3	90.3	55.7	44.4	41.4	39.9	39.1
57.5°	7881.9	5575.0	243.1	154.3	105.4	65.5	44.4	37.6	34.6	32.4	31.6
60°	8356.9	5471.1	167.1	113.7	73.0	47.4	36.9	32.4	28.6	26.3	25.6
62.5°	8624.8	5187.4	107.6	82.0	51.9	35.4	29.4	27.1	21.8	19.6	19.6
65°	8516.4	4719.2	75.3	58.7	37.6	26.3	21.8	21.8	15.8	12.8	12.0
67.5°	7547.0	3986.9	57.2	43.7	27.1	19.6	16.6	18.8	9.8	6.0	6.0
69°	6493.3	3304.2	48.9	36.1	22.6	15.8	14.3	17.3	6.8	4.5	3.8
70°	5643.5	2850.4	44.4	31.6	18.8	13.5	12.8	16.6	6.8	3.8	3.0
72.5°	3376.5	1589.6	33.9	22.6	12.0	10.5	10.5	18.8	6.8	3.8	3.0
75°	1364.6	560.0	24.8	15.8	9.0	9.0	12.8	24.1	6.0	3.0	2.3
77.5°	309.3	122.7	14.3	9.8	6.0	9.0	15.1	18.8	3.8	1.5	0.0
80°	75.3	30.1	9.0	6.0	3.8	6.8	11.3	10.5	0.8	0.0	0.0
82.5°	24.8	10.5	3.8	3.0	0.8	2.3	5.3	3.0	0.0	0.0	0.0
85°	10.5	6.0	1.5	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	6.8	2.3	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)