

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: P322977

Luminaire Tested: **GAN-SA3D-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322977
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-SA3D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA 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: 17168 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

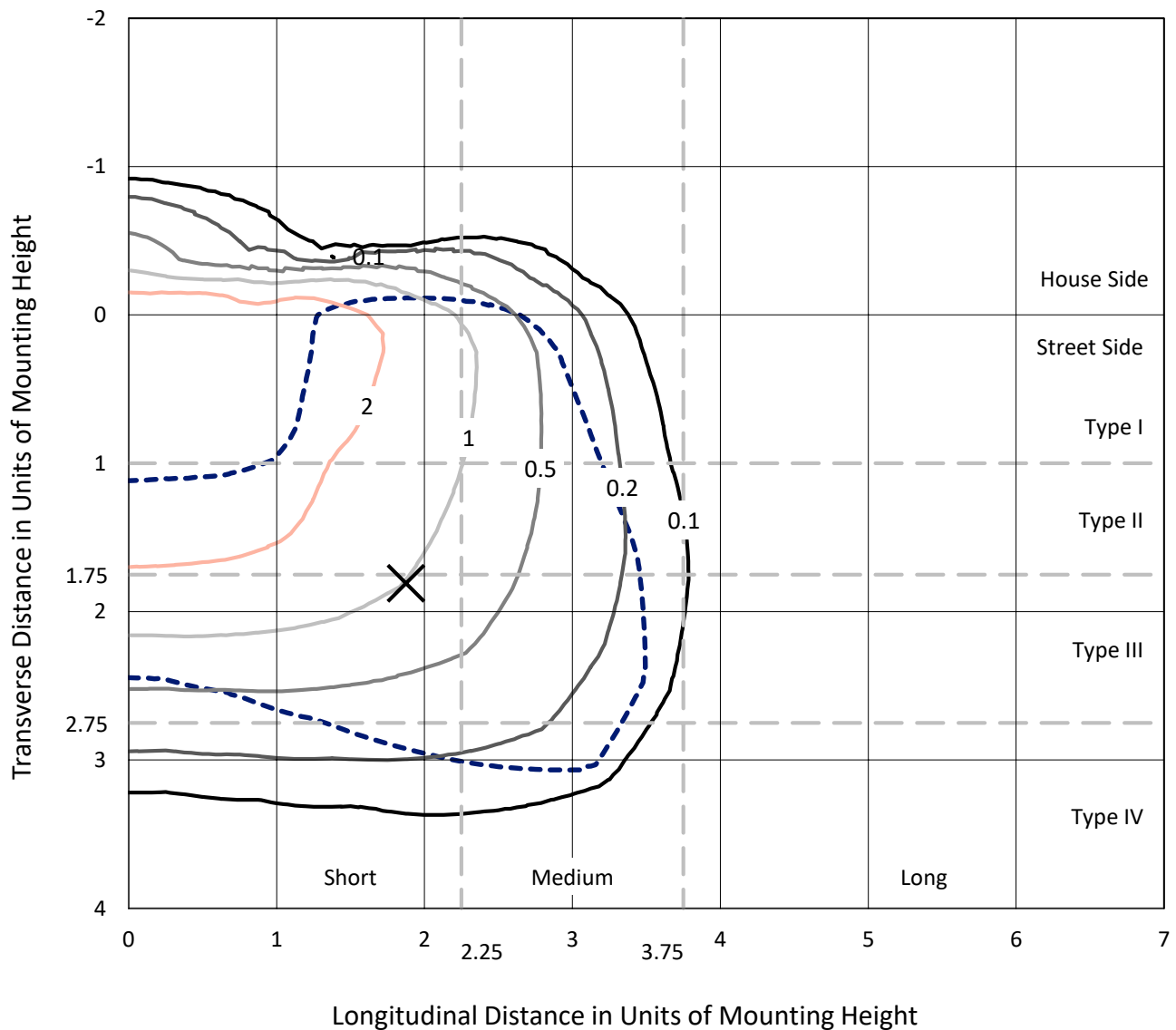
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

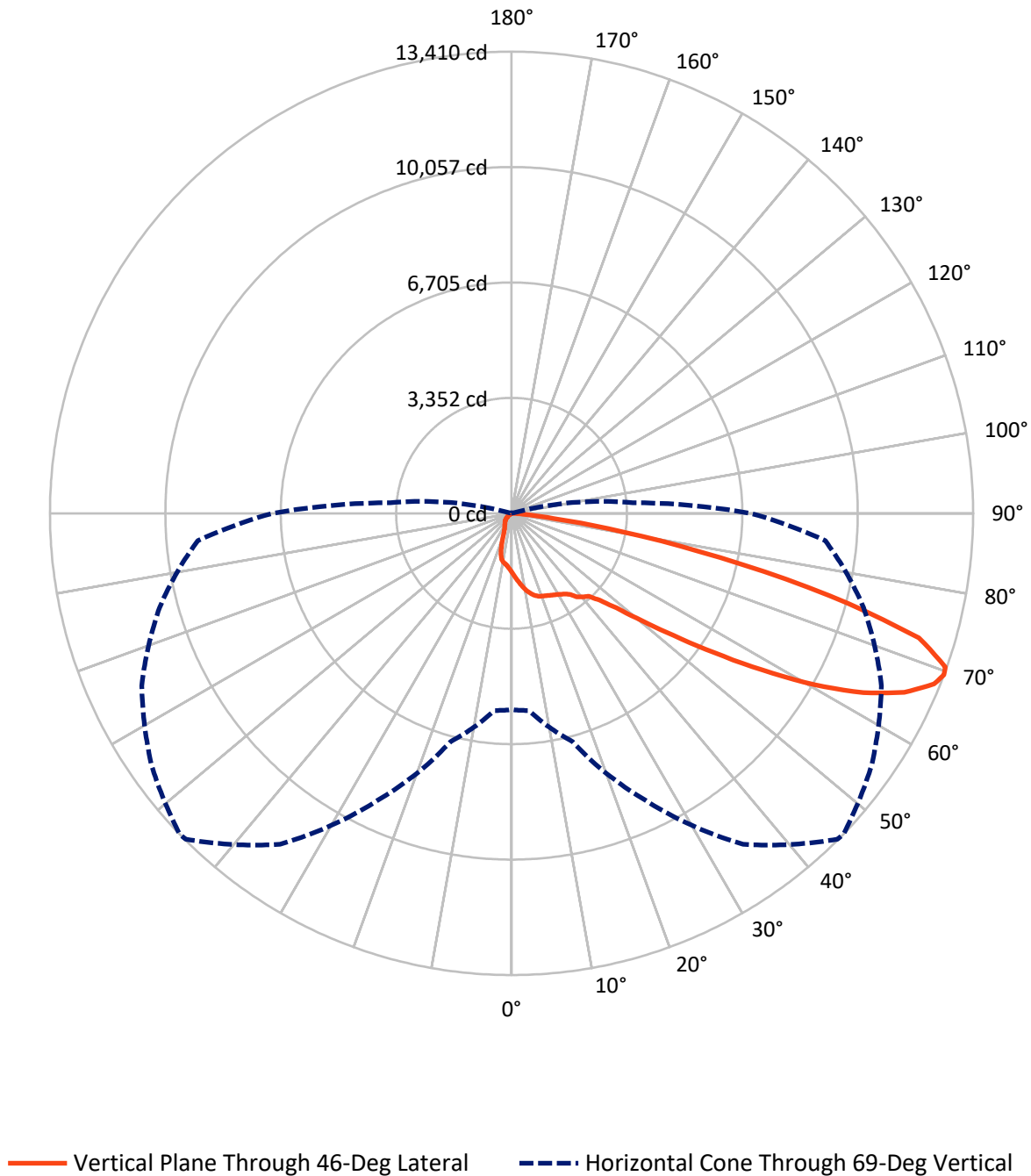
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1761.9	0.0	1761.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15406.1	0.0	15406.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	17168.0	0.0	17168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.0
10°-20°	519.4	3.0
20°-30°	816.9	4.8
30°-40°	1171.4	6.8
40°-50°	2024.7	11.8
50°-60°	3999.9	23.3
60°-70°	5590.2	32.6
70°-80°	2700.7	15.7
80°-90°	173.6	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°	17168.0	100.0
0°-180°	17168.0	100.0

Coefficient of Utilization



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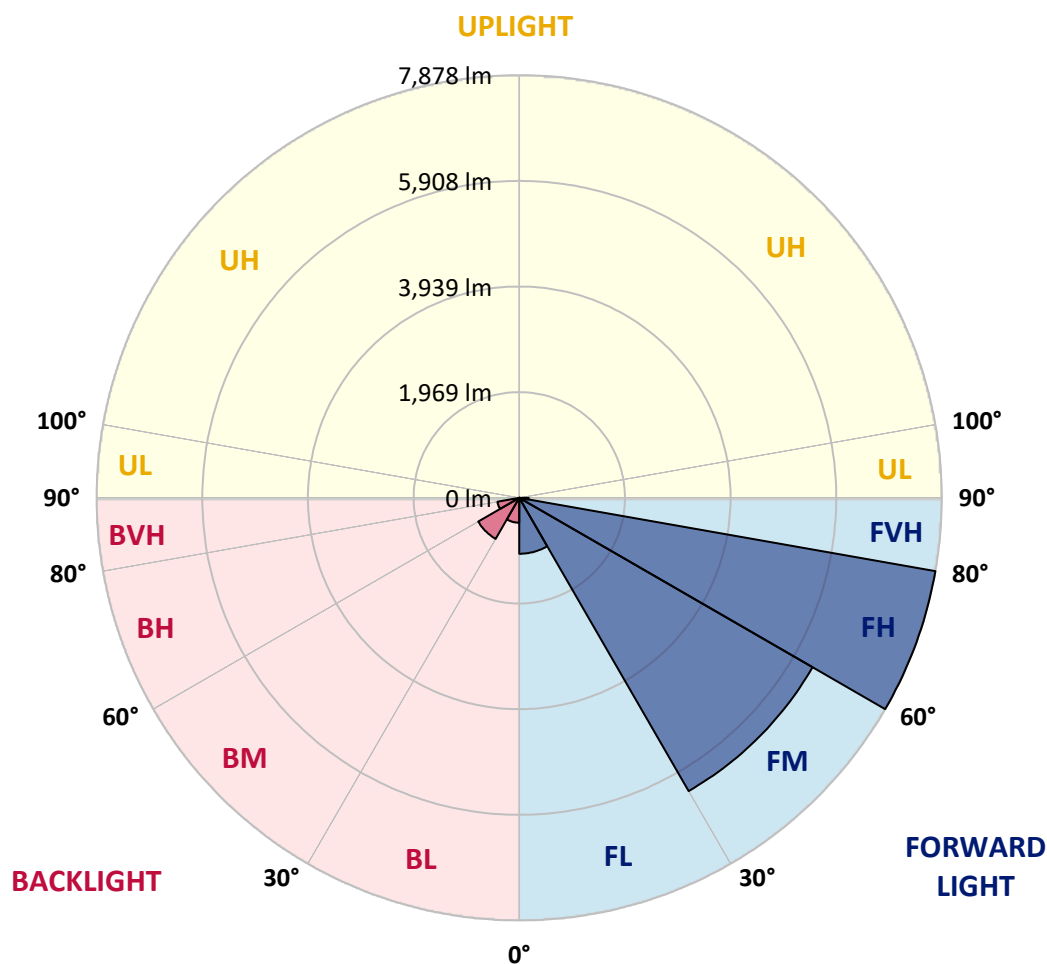
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1043.2	6.1			
FM	(30°-60°)	6313.1	36.8			
FH	(60°-80°)	7877.8	45.9			G4/12000
FVH	(80°-90°)	172.1	1.0			G2/225
BL	(0°-30°)	464.4	2.7	B1/500		
BM	(30°-60°)	882.9	5.1	B1/1000		
BH	(60°-80°)	413.1	2.4	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1910.9	1908.5	1897.3	1892.4	1865.1	1849.0	1842.5	1822.4	1793.4	1764.4	1732.2
5°	2128.3	2127.5	2106.5	2086.4	2034.9	1986.6	1977.8	1931.1	1865.9	1804.7	1743.5
7.5°	2350.4	2340.0	2319.0	2280.4	2205.6	2128.3	2121.0	2055.0	1962.5	1873.9	1786.2
10°	2538.8	2532.4	2505.0	2446.2	2358.5	2270.8	2261.9	2180.6	2076.0	1967.3	1855.4
12.5°	2685.3	2680.5	2644.2	2571.0	2477.6	2386.7	2374.6	2302.1	2190.3	2068.7	1936.7
15°	2774.6	2772.2	2728.0	2649.9	2558.1	2479.2	2468.8	2405.2	2301.3	2174.2	2025.2
17.5°	2795.6	2796.4	2750.5	2671.6	2596.0	2539.6	2531.6	2483.3	2396.3	2269.9	2113.8
20°	2748.9	2758.5	2717.5	2649.1	2602.4	2572.6	2566.2	2537.2	2463.9	2344.8	2184.6
22.5°	2682.9	2687.7	2659.5	2613.7	2594.3	2600.0	2596.8	2580.7	2518.7	2409.2	2254.7
25°	2642.6	2642.6	2625.7	2587.1	2600.0	2634.6	2635.4	2632.2	2583.1	2488.1	2340.0
27.5°	2641.0	2636.2	2616.9	2587.9	2623.3	2676.4	2679.7	2701.4	2670.8	2583.9	2446.2
30°	2705.4	2699.8	2658.7	2620.9	2666.0	2723.1	2731.2	2778.7	2763.4	2687.7	2564.6
32.5°	2855.9	2835.8	2744.9	2682.9	2716.7	2785.1	2795.6	2871.2	2895.4	2815.7	2678.9
35°	3062.0	2998.4	2867.2	2800.4	2803.6	2875.3	2884.9	2996.0	3067.6	2933.2	2767.4
37.5°	3346.2	3314.8	3101.5	2922.8	2937.2	3045.9	3074.1	3194.8	3174.7	2997.6	2868.0
40°	3969.2	3920.1	3693.1	3265.7	3065.2	3184.4	3193.2	3257.6	3259.2	3143.3	3077.3
42.5°	4817.6	4797.5	4558.4	3887.9	3317.2	3276.9	3293.0	3401.7	3523.2	3450.8	3447.6
45°	5757.0	5746.5	5493.0	4713.8	3826.7	3580.4	3600.5	3746.2	3978.8	3994.9	4097.2
47.5°	6512.8	6508.0	6362.3	5635.4	4606.7	4094.8	4101.2	4255.7	4664.7	4866.7	5030.1
50°	7201.9	7225.2	7110.1	6632.8	5669.2	4900.5	4885.2	4988.2	5645.1	5975.9	6178.8
52.5°	8159.7	8192.7	7870.0	7563.3	6784.1	5900.3	5888.2	5996.0	6823.5	7071.4	7107.7
55°	9005.7	8949.4	8694.2	8605.7	8143.6	7135.0	7131.8	7226.8	7963.3	8068.8	8135.6
57.5°	9379.2	9357.5	9480.7	9683.5	9567.6	8594.4	8587.2	8514.7	8983.2	8994.5	9199.7
60°	9615.1	9641.6	10019.2	10644.6	10933.6	10164.9	10118.2	9676.3	9957.2	9932.2	10152.0
62.5°	9438.0	9490.3	10169.7	11212.1	11955.9	11535.7	11469.7	10740.4	10789.5	10703.4	10907.8
65°	8497.8	8579.1	9692.4	11105.0	12463.0	12607.1	12540.3	11679.8	11450.4	11308.7	11195.2
67.5°	6900.0	6948.3	8110.6	10173.7	12234.4	13246.2	13232.5	12503.2	11949.4	11206.5	10325.8
69°	5702.2	5749.7	6868.6	9193.3	11731.3	13383.0	13409.6	12767.2	11854.4	10585.0	9149.0
70°	4829.7	4880.4	5922.8	8352.9	11147.7	13319.4	13366.9	12742.3	11582.4	9865.4	8116.3
72.5°	2533.2	2576.6	3646.4	5754.6	9087.8	12230.3	12374.4	11665.3	9817.9	7164.8	4799.1
75°	796.1	821.0	1423.9	3008.1	6222.2	9509.6	9542.6	9150.6	6971.6	3941.0	1998.7
77.5°	303.5	296.2	474.1	1108.4	3145.7	5988.0	6190.0	5718.3	3658.5	1393.4	461.2
80°	163.4	164.2	246.3	458.8	1345.9	3077.3	3248.0	2771.4	1300.0	434.7	106.3
82.5°	70.8	74.1	138.5	243.1	618.2	1135.0	1220.3	1015.8	496.7	292.2	39.4
85°	15.3	16.9	66.8	132.0	251.9	318.8	334.1	329.2	316.3	227.0	15.3
87.5°	0.0	0.0	29.8	47.5	63.6	72.4	63.6	82.9	174.7	152.9	8.0
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°	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2	1720.2
2.5°	1721.8	1707.3	1682.3	1655.0	1635.7	1615.5	1599.4	1592.2	1584.1	1578.5	1585.7
5°	1718.6	1690.4	1642.1	1595.4	1561.6	1534.2	1511.7	1502.8	1494.0	1487.5	1486.7
7.5°	1746.7	1707.3	1633.2	1564.8	1512.5	1475.5	1444.9	1432.0	1421.5	1416.7	1412.7
10°	1800.7	1750.0	1650.9	1561.6	1494.0	1431.2	1365.2	1314.5	1281.5	1266.2	1260.5
12.5°	1870.7	1807.1	1684.8	1578.5	1480.3	1359.6	1219.5	1098.8	1020.7	994.9	979.6
15°	1952.8	1873.9	1729.0	1600.2	1430.4	1209.8	972.4	814.6	742.2	727.7	711.6
17.5°	2031.7	1944.7	1782.2	1604.3	1320.9	966.7	712.4	605.3	577.1	586.8	589.2
20°	2100.9	2014.8	1834.5	1568.8	1122.1	725.3	551.4	524.8	535.3	553.8	557.0
22.5°	2170.9	2082.4	1882.8	1475.5	867.7	550.6	496.7	503.1	513.6	532.1	535.3
25°	2256.3	2164.5	1927.8	1304.0	651.2	468.5	471.7	481.4	491.8	508.7	510.3
27.5°	2354.5	2268.3	1957.6	1081.0	483.0	430.6	441.1	455.6	466.1	482.2	485.4
30°	2484.9	2405.2	1967.3	850.0	404.9	396.8	401.7	419.4	434.7	449.2	451.6
32.5°	2607.2	2540.4	1935.1	641.5	375.1	365.4	365.4	375.9	393.6	407.3	410.5
35°	2719.9	2676.4	1832.1	469.3	352.6	336.5	328.4	328.4	339.7	351.0	354.2
37.5°	2868.8	2867.2	1665.4	374.3	330.8	312.3	295.4	282.5	278.5	280.9	282.5
40°	3124.0	3126.4	1448.1	335.7	312.3	287.4	261.6	238.3	216.5	209.3	208.5
42.5°	3522.4	3486.2	1220.3	317.1	296.2	261.6	223.0	191.6	157.8	147.3	146.5
45°	4155.1	3940.2	978.8	300.2	279.3	232.6	184.3	141.7	114.3	106.3	106.3
47.5°	5076.8	4536.7	758.3	281.7	256.8	199.6	139.3	102.2	83.7	79.7	80.5
50°	6029.8	5121.1	581.2	258.4	229.4	165.0	103.0	74.1	63.6	63.6	64.4
52.5°	6875.0	5549.3	453.2	233.4	195.6	129.6	78.1	58.0	53.1	52.3	53.1
55°	7666.3	5825.4	346.9	204.5	155.4	96.6	59.6	47.5	44.3	42.7	41.9
57.5°	8429.4	5962.2	260.0	165.0	112.7	70.0	47.5	40.2	37.0	34.6	33.8
60°	8937.3	5851.2	178.7	121.5	78.1	50.7	39.4	34.6	30.6	28.2	27.4
62.5°	9223.9	5547.7	115.1	87.7	55.5	37.8	31.4	29.0	23.3	20.9	20.9
65°	9108.0	5047.0	80.5	62.8	40.2	28.2	23.3	23.3	16.9	13.7	12.9
67.5°	8071.2	4263.8	61.2	46.7	29.0	20.9	17.7	20.1	10.5	6.4	6.4
69°	6944.3	3533.7	52.3	38.6	24.1	16.9	15.3	18.5	7.2	4.8	4.0
70°	6035.5	3048.3	47.5	33.8	20.1	14.5	13.7	17.7	7.2	4.0	3.2
72.5°	3611.0	1700.0	36.2	24.1	12.9	11.3	11.3	20.1	7.2	4.0	3.2
75°	1459.4	598.9	26.6	16.9	9.7	9.7	13.7	25.8	6.4	3.2	2.4
77.5°	330.8	131.2	15.3	10.5	6.4	9.7	16.1	20.1	4.0	1.6	0.0
80°	80.5	32.2	9.7	6.4	4.0	7.2	12.1	11.3	0.8	0.0	0.0
82.5°	26.6	11.3	4.0	3.2	0.8	2.4	5.6	3.2	0.0	0.0	0.0
85°	11.3	6.4	1.6	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0
87.5°	7.2	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)