

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: P322818

Luminaire Tested: **GAN-SA4D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322818
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-SA4D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 18971 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

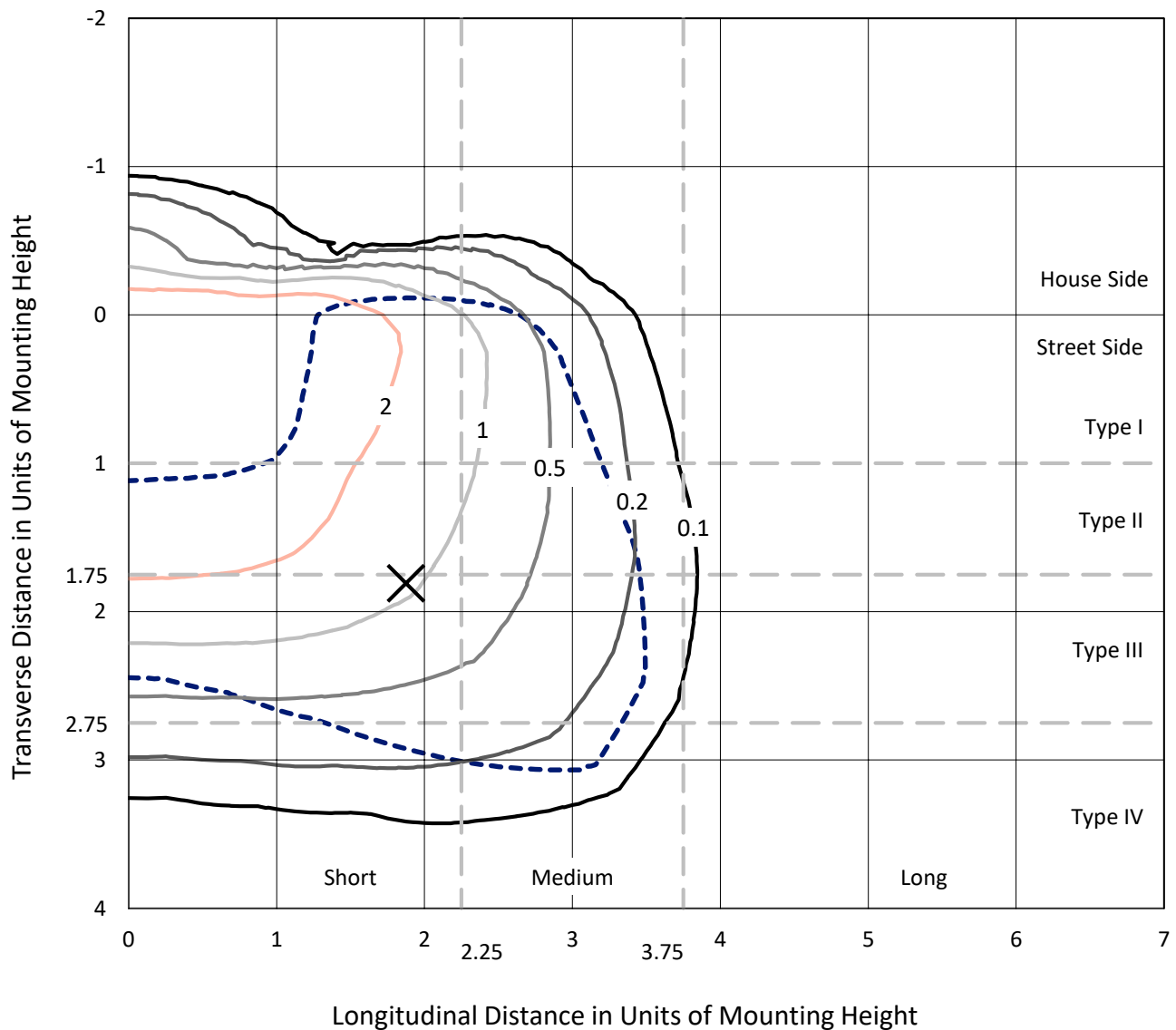
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

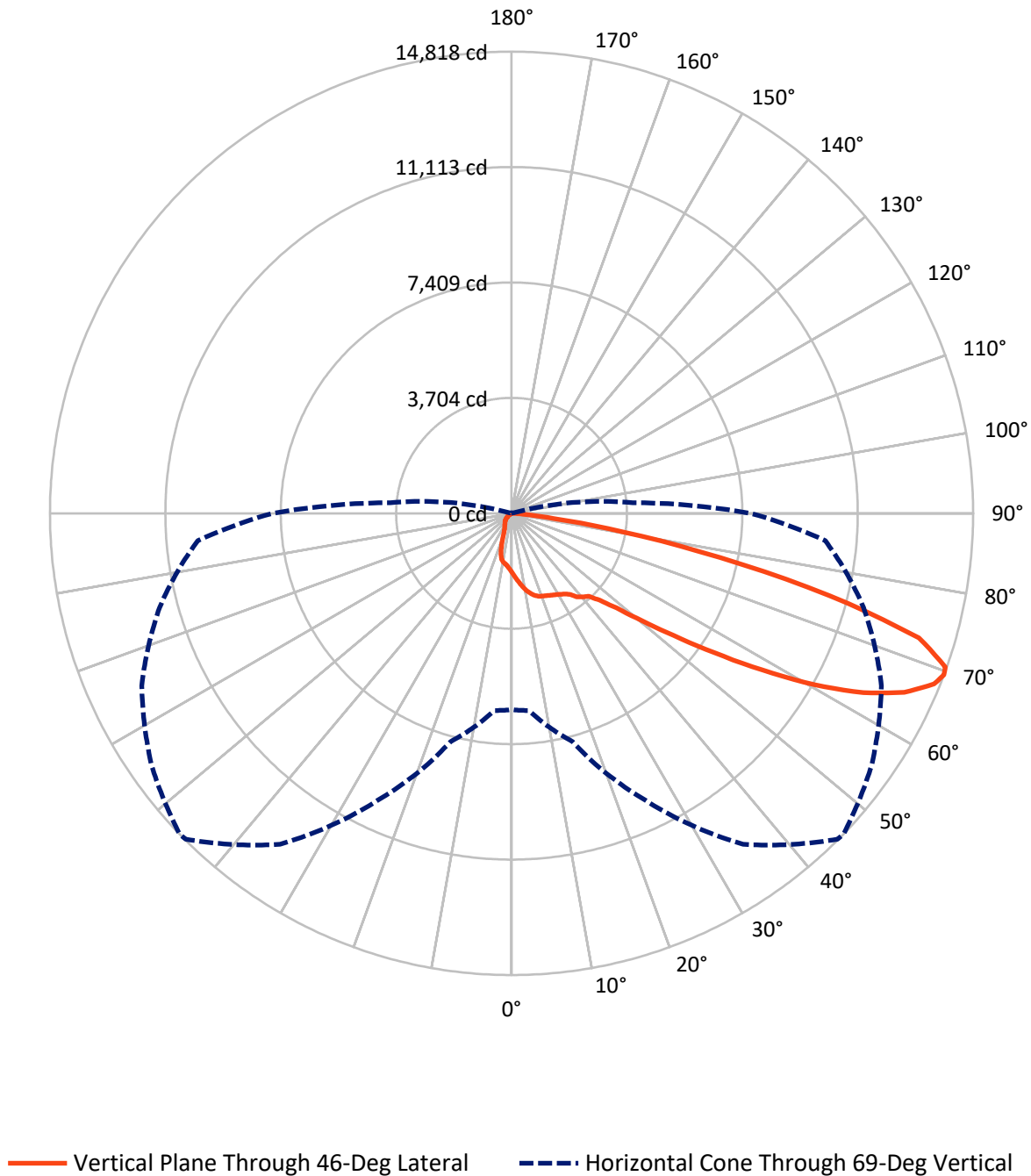
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1946.9	0.0	1946.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17024.1	0.0	17024.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	18971.0	0.0	18971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.0
10°-20°	574.0	3.0
20°-30°	902.7	4.8
30°-40°	1294.4	6.8
40°-50°	2237.3	11.8
50°-60°	4420.0	23.3
60°-70°	6177.3	32.6
70°-80°	2984.3	15.7
80°-90°	191.8	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°	18971.0	100.0
0°-180°	18971.0	100.0

Coefficient of Utilization



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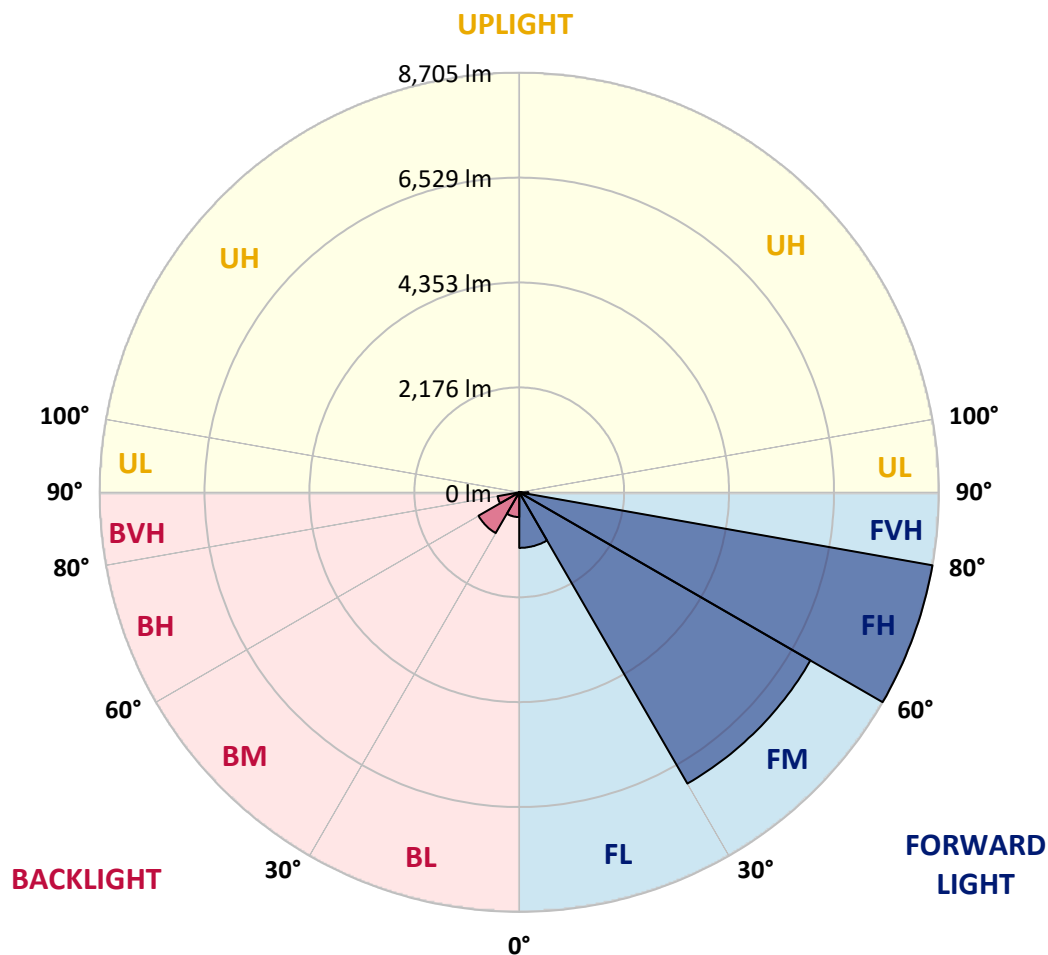
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1152.7	6.1			
FM	(30°-60°)	6976.1	36.8			
FH	(60°-80°)	8705.1	45.9			G4/12000
FVH	(80°-90°)	190.2	1.0			G2/225
BL	(0°-30°)	513.1	2.7	B2/1000		
BM	(30°-60°)	975.7	5.1	B1/1000		
BH	(60°-80°)	456.5	2.4	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8
2.5°	2111.6	2109.0	2096.5	2091.2	2060.9	2043.1	2036.0	2013.8	1981.8	1949.7	1914.2
5°	2351.8	2350.9	2327.8	2305.5	2248.6	2195.2	2185.5	2133.9	2061.8	1994.2	1926.6
7.5°	2597.3	2585.7	2562.6	2519.9	2437.2	2351.8	2343.8	2270.8	2168.6	2070.7	1973.8
10°	2805.4	2798.3	2768.1	2703.1	2606.2	2509.2	2499.4	2409.6	2294.0	2173.9	2050.3
12.5°	2967.3	2962.0	2921.9	2841.0	2737.8	2637.3	2624.0	2543.9	2420.3	2286.0	2140.1
15°	3066.0	3063.4	3014.5	2928.2	2826.8	2739.6	2728.0	2657.8	2543.0	2402.5	2237.9
17.5°	3089.2	3090.1	3039.4	2952.2	2868.6	2806.3	2797.4	2744.1	2648.0	2508.3	2335.8
20°	3037.6	3048.3	3002.9	2927.3	2875.7	2842.8	2835.7	2803.6	2722.7	2591.1	2414.1
22.5°	2964.6	2970.0	2938.8	2888.1	2866.8	2873.0	2869.5	2851.7	2783.2	2662.2	2491.4
25°	2920.2	2920.2	2901.5	2858.8	2873.0	2911.3	2912.2	2908.6	2854.3	2749.4	2585.7
27.5°	2918.4	2913.1	2891.7	2859.7	2898.8	2957.5	2961.1	2985.1	2951.3	2855.2	2703.1
30°	2989.5	2983.3	2938.0	2896.2	2946.0	3009.1	3018.0	3070.5	3053.6	2970.0	2833.9
32.5°	3155.9	3133.6	3033.1	2964.6	3002.0	3077.6	3089.2	3172.8	3199.5	3111.4	2960.2
35°	3383.6	3313.3	3168.3	3094.5	3098.1	3177.2	3187.9	3310.7	3389.8	3241.3	3058.0
37.5°	3697.6	3662.9	3427.2	3229.7	3245.7	3365.8	3396.9	3530.4	3508.1	3312.4	3169.2
40°	4386.0	4331.8	4080.9	3608.6	3387.1	3518.8	3528.6	3599.7	3601.5	3473.4	3400.5
42.5°	5323.6	5301.3	5037.1	4296.2	3665.6	3621.1	3638.9	3759.0	3893.3	3813.2	3809.7
45°	6361.6	6350.0	6069.8	5208.8	4228.6	3956.4	3978.7	4139.6	4396.7	4414.5	4527.5
47.5°	7196.8	7191.5	7030.5	6227.3	5090.5	4524.8	4531.9	4702.7	5154.5	5377.8	5558.4
50°	7958.2	7984.0	7856.8	7329.3	6264.6	5415.2	5398.3	5512.1	6237.9	6603.5	6827.7
52.5°	9016.7	9053.1	8696.5	8357.6	7496.6	6519.9	6506.6	6625.8	7540.1	7814.1	7854.1
55°	9951.5	9889.3	9607.3	9509.5	8998.9	7884.4	7880.8	7985.8	8799.6	8916.2	8990.0
57.5°	10364.2	10340.2	10476.3	10700.5	10572.4	9497.0	9489.0	9408.9	9926.6	9939.1	10165.9
60°	10624.9	10654.2	11071.4	11762.5	12081.8	11232.4	11180.8	10692.5	11002.9	10975.3	11218.1
62.5°	10429.2	10487.0	11237.7	12389.6	13211.5	12747.2	12674.2	11868.4	11922.6	11827.4	12053.4
65°	9390.3	9480.1	10710.3	12271.3	13771.9	13931.1	13857.2	12906.4	12652.9	12496.3	12370.9
67.5°	7624.6	7678.0	8962.4	11242.2	13519.2	14637.3	14622.2	13816.3	13204.4	12383.4	11410.3
69°	6301.1	6353.6	7590.0	10158.8	12963.3	14788.5	14817.9	14108.1	13099.4	11696.7	10109.9
70°	5336.9	5392.9	6544.8	9230.2	12318.4	14718.3	14770.7	14080.5	12798.8	10901.5	8968.6
72.5°	2799.2	2847.2	4029.4	6358.9	10042.3	13514.8	13674.0	12890.4	10849.0	7917.3	5303.1
75°	879.7	907.3	1573.5	3324.0	6875.7	10508.3	10544.8	10111.6	7703.8	4354.9	2208.6
77.5°	335.3	327.3	523.9	1224.8	3476.1	6616.9	6840.1	6318.9	4042.7	1539.7	509.7
80°	180.6	181.5	272.2	507.0	1487.2	3400.5	3589.1	3062.5	1436.5	480.3	117.4
82.5°	78.3	81.8	153.0	268.6	683.1	1254.2	1348.5	1122.5	548.8	322.9	43.6
85°	16.9	18.7	73.8	145.9	278.4	352.2	369.1	363.8	349.6	250.8	16.9
87.5°	0.0	0.0	32.9	52.5	70.3	80.1	70.3	91.6	193.0	169.0	8.9
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°	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8	1900.8
2.5°	1902.6	1886.6	1859.0	1828.8	1807.4	1785.2	1767.4	1759.4	1750.5	1744.3	1752.3
5°	1899.0	1867.9	1814.5	1763.0	1725.6	1695.4	1670.4	1660.7	1650.9	1643.8	1642.9
7.5°	1930.2	1886.6	1804.8	1729.2	1671.3	1630.4	1596.6	1582.4	1570.8	1565.5	1561.0
10°	1989.8	1933.7	1824.3	1725.6	1650.9	1581.5	1508.6	1452.5	1416.1	1399.2	1392.9
12.5°	2067.2	1996.9	1861.7	1744.3	1635.8	1502.3	1347.6	1214.1	1127.9	1099.4	1082.5
15°	2157.9	2070.7	1910.6	1768.3	1580.6	1336.9	1074.5	900.2	820.1	804.1	786.3
17.5°	2245.1	2149.0	1969.3	1772.7	1459.6	1068.3	787.2	668.9	637.8	648.4	651.1
20°	2321.5	2226.4	2027.1	1733.6	1239.9	801.4	609.3	579.9	591.5	612.0	615.5
22.5°	2398.9	2301.1	2080.5	1630.4	958.9	608.4	548.8	555.9	567.5	587.9	591.5
25°	2493.2	2391.8	2130.3	1441.0	719.6	517.7	521.2	531.9	543.5	562.2	563.9
27.5°	2601.7	2506.6	2163.2	1194.6	533.7	475.9	487.4	503.4	515.0	532.8	536.4
30°	2745.8	2657.8	2173.9	939.3	447.4	438.5	443.9	463.4	480.3	496.3	499.0
32.5°	2881.0	2807.2	2138.3	708.9	414.5	403.8	403.8	415.4	435.0	450.1	453.6
35°	3005.6	2957.5	2024.5	518.6	389.6	371.8	362.9	362.9	375.4	387.8	391.4
37.5°	3170.1	3168.3	1840.3	413.6	365.6	345.1	326.4	312.2	307.8	310.4	312.2
40°	3452.1	3454.7	1600.2	370.9	345.1	317.5	289.1	263.3	239.3	231.3	230.4
42.5°	3892.4	3852.3	1348.5	350.5	327.3	289.1	246.4	211.7	174.3	162.8	161.9
45°	4591.5	4354.0	1081.6	331.8	308.7	257.1	203.7	156.5	126.3	117.4	117.4
47.5°	5610.0	5013.1	837.9	311.3	283.7	220.6	153.9	113.0	92.5	88.1	88.9
50°	6663.1	5658.9	642.2	285.5	253.5	182.3	113.9	81.8	70.3	70.3	71.2
52.5°	7597.1	6132.1	500.8	257.9	216.1	143.2	86.3	64.0	58.7	57.8	58.7
55°	8471.4	6437.2	383.4	225.9	171.7	106.7	65.8	52.5	48.9	47.1	46.3
57.5°	9314.7	6588.4	287.3	182.3	124.5	77.4	52.5	44.5	40.9	38.2	37.4
60°	9875.9	6465.6	197.5	134.3	86.3	56.0	43.6	38.2	33.8	31.1	30.2
62.5°	10192.6	6130.3	127.2	97.0	61.4	41.8	34.7	32.0	25.8	23.1	23.1
65°	10064.5	5577.1	88.9	69.4	44.5	31.1	25.8	25.8	18.7	15.1	14.2
67.5°	8918.8	4711.6	67.6	51.6	32.0	23.1	19.6	22.2	11.6	7.1	7.1
69°	7673.6	3904.8	57.8	42.7	26.7	18.7	16.9	20.5	8.0	5.3	4.4
70°	6669.3	3368.5	52.5	37.4	22.2	16.0	15.1	19.6	8.0	4.4	3.6
72.5°	3990.2	1878.6	40.0	26.7	14.2	12.5	12.5	22.2	8.0	4.4	3.6
75°	1612.6	661.8	29.4	18.7	10.7	10.7	15.1	28.5	7.1	3.6	2.7
77.5°	365.6	145.0	16.9	11.6	7.1	10.7	17.8	22.2	4.4	1.8	0.0
80°	88.9	35.6	10.7	7.1	4.4	8.0	13.3	12.5	0.9	0.0	0.0
82.5°	29.4	12.5	4.4	3.6	0.9	2.7	6.2	3.6	0.0	0.0	0.0
85°	12.5	7.1	1.8	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	8.0	2.7	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)