

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: P323757

Luminaire Tested: **GAN-SA3B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11843 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 124
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



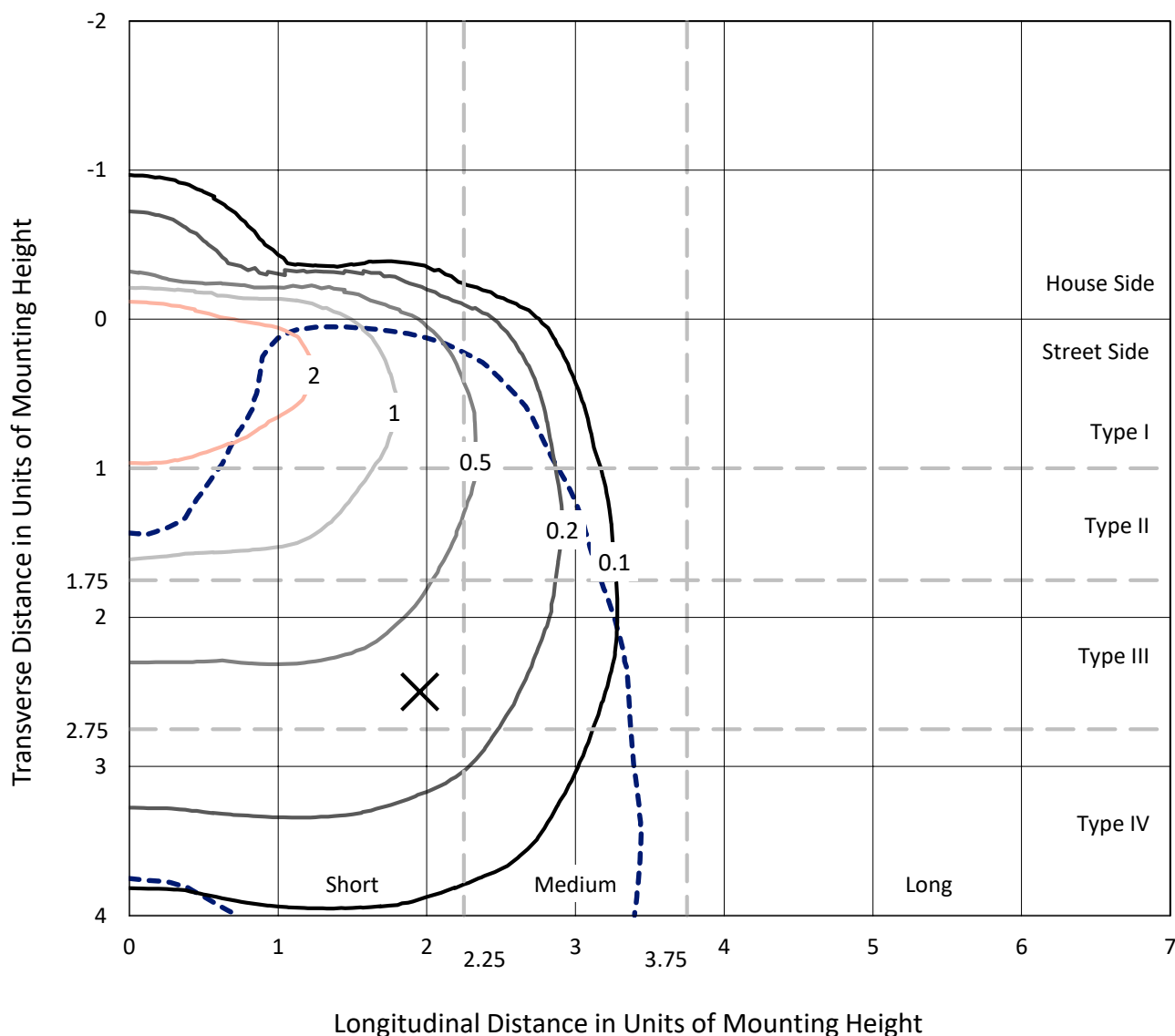
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

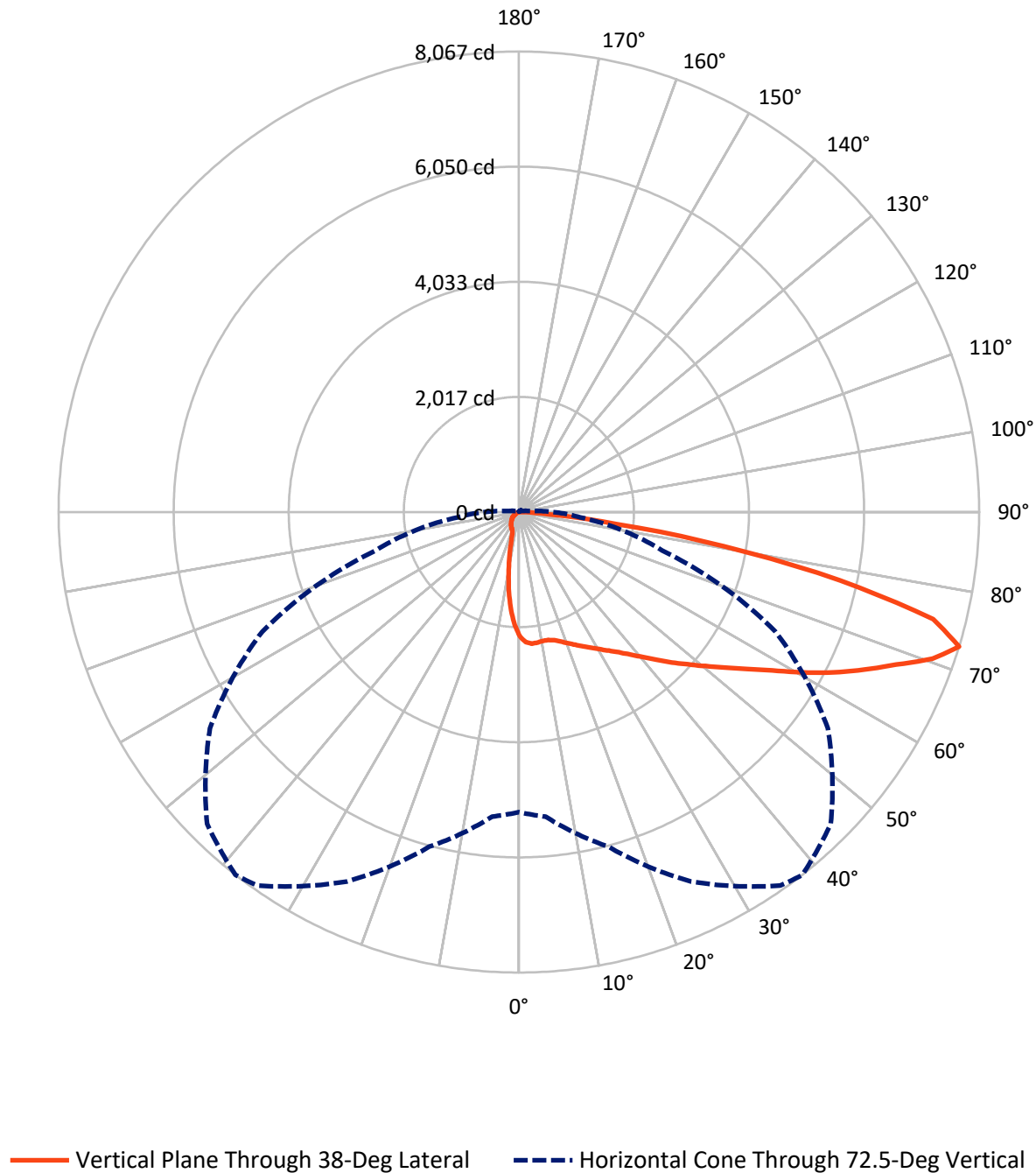


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

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	996.6	0.0	996.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10846.4	0.0	10846.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	11843.0	0.0	11843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	1.6
10°-20°	453.8	3.8
20°-30°	721.8	6.1
30°-40°	1085.2	9.2
40°-50°	1655.5	14.0
50°-60°	2339.8	19.8
60°-70°	2934.8	24.8
70°-80°	2194.4	18.5
80°-90°	272.1	2.3
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°	11843.0	100.0
0°-180°	11843.0	100.0

Coefficient of Utilization



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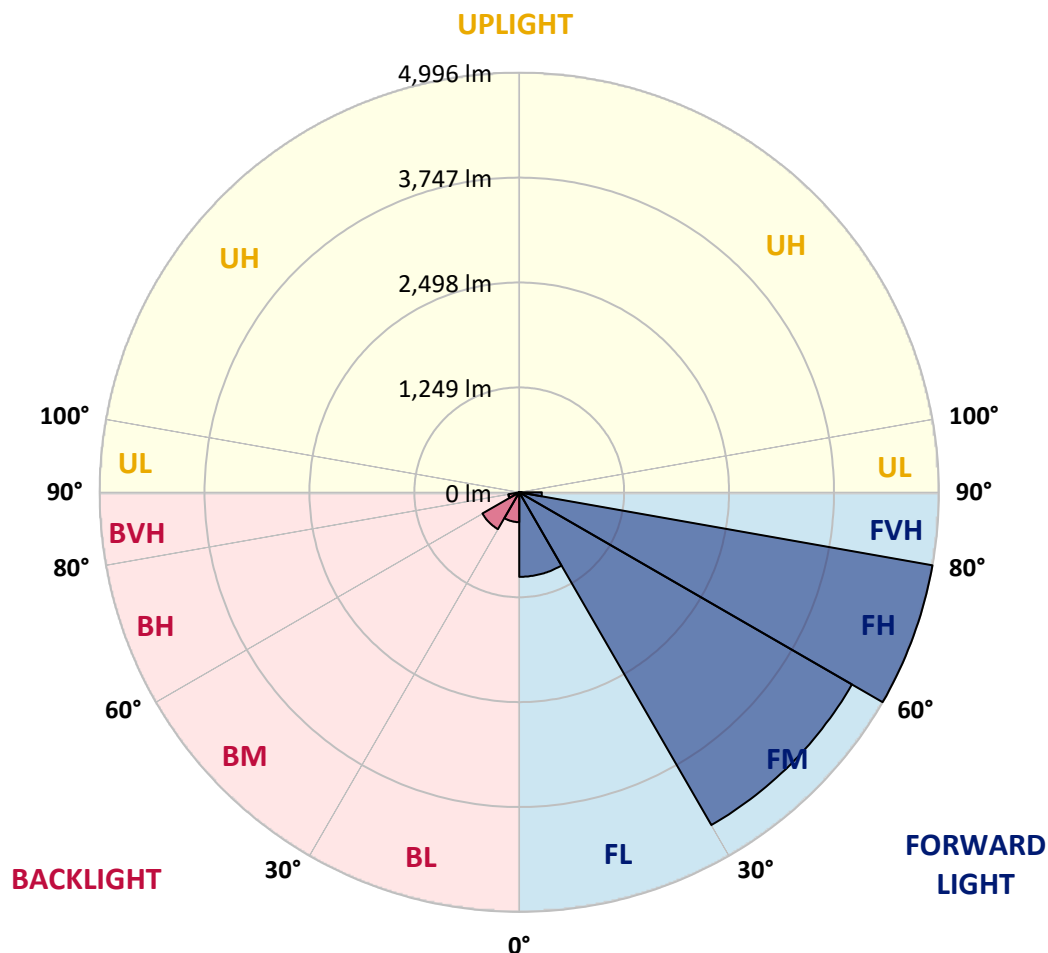
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.4	8.5			
FM	(30°-60°)	4574.3	38.6			
FH	(60°-80°)	4996.1	42.2			G2/5000
FVH	(80°-90°)	269.6	2.3			G3/500
BL	(0°-30°)	354.9	3.0	B1/500		
BM	(30°-60°)	506.1	4.3	B1/1000		
BH	(60°-80°)	133.1	1.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9
2.5°	2311.7	2312.2	2306.8	2297.9	2286.6	2280.7	2270.8	2255.1	2238.4	2208.4	2175.9
5°	2358.9	2358.9	2352.0	2340.2	2322.0	2316.6	2297.9	2272.8	2238.4	2189.7	2135.1
7.5°	2354.0	2355.0	2345.6	2333.3	2315.1	2310.2	2287.6	2259.5	2216.7	2157.7	2087.9
10°	2328.4	2330.9	2323.5	2317.6	2300.8	2295.4	2274.3	2246.3	2203.5	2140.5	2060.3
12.5°	2302.3	2304.8	2307.2	2312.7	2302.3	2300.4	2283.6	2260.0	2219.2	2153.8	2063.3
15°	2285.6	2290.5	2308.2	2329.4	2331.8	2329.9	2319.0	2296.9	2255.6	2187.7	2084.4
17.5°	2285.6	2293.5	2330.4	2370.7	2385.0	2386.4	2377.1	2346.1	2296.9	2224.1	2104.1
20°	2304.8	2315.6	2373.2	2430.2	2453.8	2453.8	2435.6	2392.3	2334.8	2257.1	2117.4
22.5°	2354.0	2368.2	2440.5	2506.4	2531.5	2526.1	2501.5	2438.6	2374.1	2294.5	2134.1
25°	2450.9	2461.7	2536.9	2603.3	2618.6	2606.3	2575.3	2494.6	2424.3	2345.1	2164.6
27.5°	2575.8	2577.3	2655.0	2711.0	2701.7	2693.3	2654.5	2565.0	2496.6	2417.4	2217.2
30°	2713.0	2713.0	2781.4	2824.2	2795.6	2788.8	2749.9	2650.1	2589.1	2515.8	2292.0
32.5°	2845.8	2851.7	2907.3	2934.3	2902.4	2895.5	2857.6	2757.8	2712.0	2665.8	2408.6
35°	2974.2	2978.6	3031.2	3046.0	3015.5	3017.5	2990.4	2905.8	2888.6	2882.7	2584.2
37.5°	3098.6	3099.6	3153.2	3162.6	3147.3	3164.0	3166.5	3091.7	3123.7	3171.4	2831.6
40°	3212.2	3213.2	3266.3	3290.4	3316.5	3338.2	3357.3	3317.5	3423.2	3533.9	3126.2
42.5°	3303.2	3313.6	3380.9	3426.7	3495.5	3536.9	3589.0	3587.0	3779.8	3946.1	3482.3
45°	3383.4	3401.1	3495.0	3575.2	3693.3	3759.2	3840.8	3904.8	4181.2	4405.0	3842.8
47.5°	3489.1	3505.9	3613.1	3744.4	3901.8	3988.4	4123.6	4261.8	4622.4	4855.5	4194.9
50°	3638.2	3630.8	3736.5	3924.9	4127.1	4240.7	4433.5	4640.6	5060.1	5248.0	4402.0
52.5°	3797.0	3794.1	3872.3	4121.2	4392.7	4525.5	4780.2	5032.1	5478.7	5518.5	4496.9
55°	3993.8	3972.6	4038.5	4345.0	4707.9	4850.6	5150.6	5419.6	5812.1	5671.0	4544.6
57.5°	4199.9	4164.9	4227.9	4594.3	5063.5	5232.2	5560.8	5797.4	6034.0	5775.2	4544.2
60°	4412.8	4371.5	4446.3	4906.2	5505.2	5700.5	6005.4	6052.6	6241.0	5827.9	4510.7
62.5°	4590.9	4566.3	4677.4	5239.6	5998.5	6190.4	6341.4	6284.8	6415.6	5868.7	4432.5
65°	4779.3	4780.7	4960.3	5628.7	6522.8	6652.2	6665.0	6585.8	6561.7	5860.3	4167.9
67.5°	5034.0	5057.6	5357.2	6156.9	7032.9	7132.7	7131.7	6911.9	6668.4	5527.8	3581.1
70°	5303.6	5359.1	5814.6	6761.4	7589.7	7691.0	7638.8	7119.5	6278.9	4469.9	2534.5
72.5°	5258.3	5354.7	6068.9	7142.6	7989.5	8066.7	7727.9	6609.4	4962.7	2597.9	1079.1
75°	4056.7	4168.4	5564.7	6764.8	7570.0	7500.6	6639.9	5143.2	2712.0	725.0	243.0
77.5°	2143.0	2202.5	3676.0	5153.5	5902.6	5757.5	4677.4	2853.2	826.8	179.5	109.2
80°	1122.4	1136.2	1601.9	2924.0	3643.1	3644.1	2772.0	1253.2	340.8	92.0	73.3
82.5°	601.0	612.8	846.5	1351.1	1908.8	1730.3	1061.4	689.6	198.2	52.1	70.3
85°	144.6	147.1	480.0	617.3	750.6	536.1	315.3	578.9	53.6	30.5	57.1
87.5°	55.6	56.6	178.0	267.1	191.3	123.9	147.6	215.9	6.9	11.8	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°	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9	2177.9
2.5°	2156.2	2143.5	2112.0	2072.1	2036.7	2011.2	1972.8	1947.7	1931.0	1930.5	1924.1
5°	2101.7	2075.6	2007.7	1927.0	1853.8	1787.9	1710.1	1648.7	1602.9	1595.5	1579.8
7.5°	2043.1	2000.3	1896.1	1770.1	1647.2	1522.3	1377.2	1287.2	1209.9	1173.0	1169.1
10°	2007.2	1947.2	1799.2	1617.2	1424.4	1221.3	1031.4	900.1	805.1	778.1	757.9
12.5°	1999.8	1920.7	1724.4	1473.6	1198.1	929.6	719.6	579.9	504.1	480.0	473.6
15°	2007.2	1908.4	1661.5	1331.4	968.9	659.6	483.0	401.8	373.3	366.4	365.9
17.5°	2011.6	1893.6	1590.1	1173.5	746.6	471.2	369.9	346.3	341.8	341.3	342.3
20°	2011.2	1871.0	1505.0	997.5	555.3	370.4	334.5	329.5	328.6	329.0	328.6
22.5°	2007.7	1844.4	1411.6	816.0	419.5	331.0	319.2	316.3	315.8	315.8	315.8
25°	2014.1	1823.3	1308.8	642.3	345.8	312.8	305.4	303.0	302.5	302.5	301.5
27.5°	2037.2	1811.5	1196.2	494.3	312.3	296.6	290.7	290.2	288.7	288.2	289.2
30°	2074.6	1811.5	1072.7	384.6	292.2	279.9	275.4	274.4	274.0	273.5	274.0
32.5°	2140.5	1825.2	937.9	319.7	273.0	261.2	258.2	259.7	258.2	258.2	258.2
35°	2259.5	1866.6	796.8	278.9	252.8	243.0	240.0	242.0	241.0	241.0	240.5
37.5°	2433.2	1943.3	654.6	254.3	235.1	224.8	220.8	223.8	222.8	222.8	222.3
40°	2644.6	2054.9	519.4	235.6	217.9	207.1	203.6	205.1	202.6	202.6	203.6
42.5°	2905.8	2196.6	401.3	217.4	200.7	190.3	188.4	186.9	182.5	180.0	180.5
45°	3196.0	2344.1	312.8	199.7	184.4	176.1	173.1	169.2	161.8	156.9	157.4
47.5°	3455.2	2457.7	254.3	182.5	169.7	163.3	158.9	151.5	140.7	134.8	135.3
50°	3591.5	2475.0	216.4	165.3	155.9	149.5	143.1	131.8	119.0	112.6	112.1
52.5°	3626.4	2394.3	188.4	149.5	142.1	134.8	126.4	111.2	96.9	90.0	89.0
55°	3639.2	2271.3	163.3	134.8	127.4	119.0	108.2	91.0	77.7	70.8	70.3
57.5°	3596.9	2087.9	143.6	121.5	112.6	102.3	89.0	72.8	60.0	54.6	54.6
60°	3502.9	1839.5	128.4	107.2	97.4	85.6	71.8	56.6	44.8	40.3	40.3
62.5°	3315.5	1517.8	114.1	92.5	83.1	70.8	58.0	42.8	31.5	29.0	29.5
65°	2961.9	1151.4	99.8	79.2	70.8	58.5	45.2	30.5	21.1	21.1	22.1
67.5°	2415.4	799.7	85.1	67.4	61.0	47.7	34.4	21.1	14.8	16.7	18.7
70°	1599.0	448.6	72.8	55.6	52.1	37.9	25.6	14.3	11.8	15.7	19.2
72.5°	603.5	174.6	61.0	44.8	45.2	29.0	18.2	10.8	10.8	17.2	22.6
75°	168.2	85.6	43.8	33.0	35.4	21.1	13.3	9.3	10.3	19.7	26.6
77.5°	98.9	63.0	28.5	19.2	24.1	14.8	8.9	7.4	8.9	16.7	25.6
80°	79.7	33.4	16.7	9.8	13.3	8.4	5.9	4.4	2.5	6.4	13.3
82.5°	79.7	20.2	7.9	6.9	6.9	4.4	3.0	2.0	0.5	0.0	3.4
85°	53.6	8.4	4.9	4.4	3.4	1.5	1.0	0.5	0.0	0.0	0.0
87.5°	8.9	3.4	2.0	1.0	0.5	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)