

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: P323776

Luminaire Tested: **GAN-SA2D-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323776
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-SA2D-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10776 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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



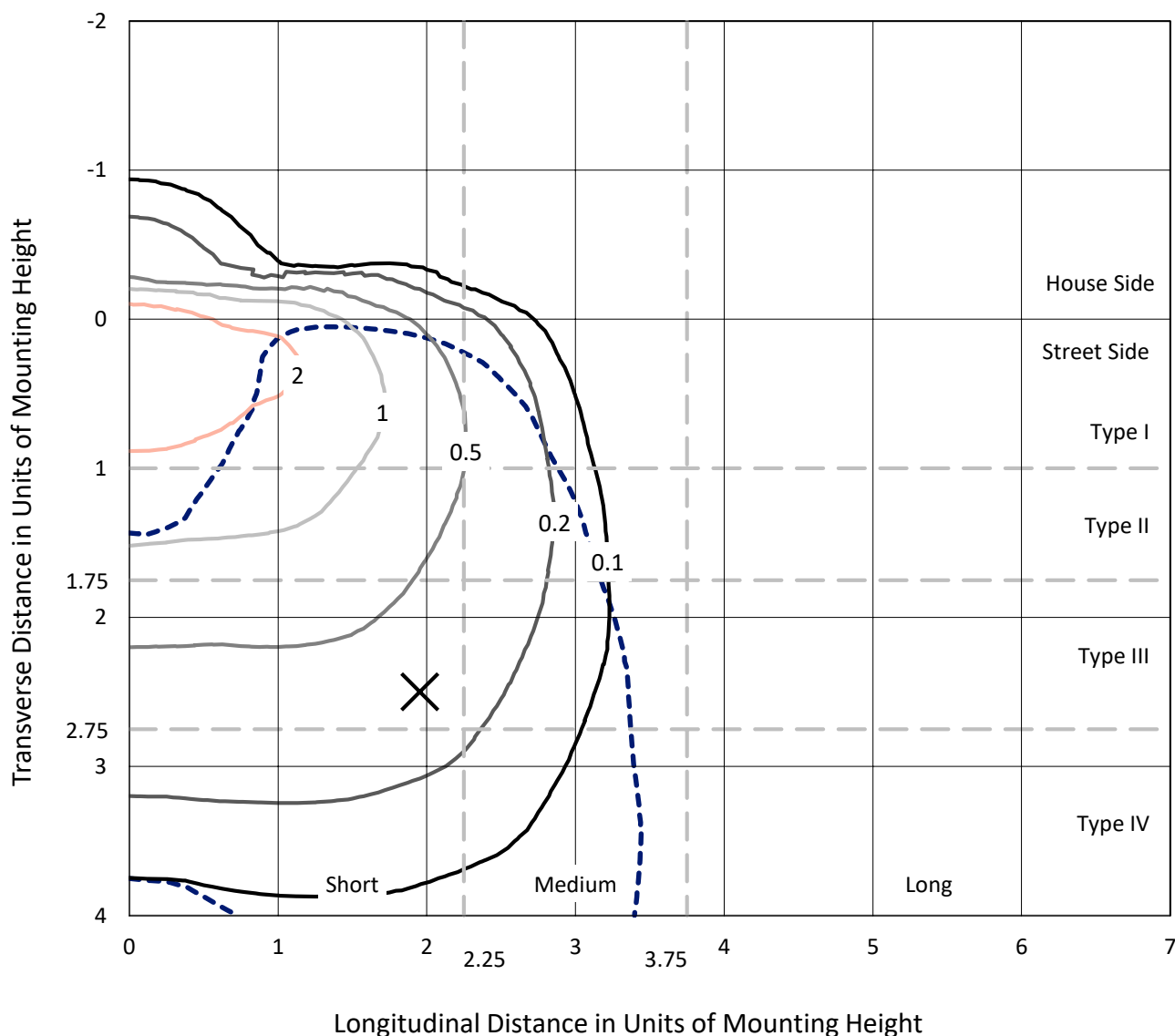
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

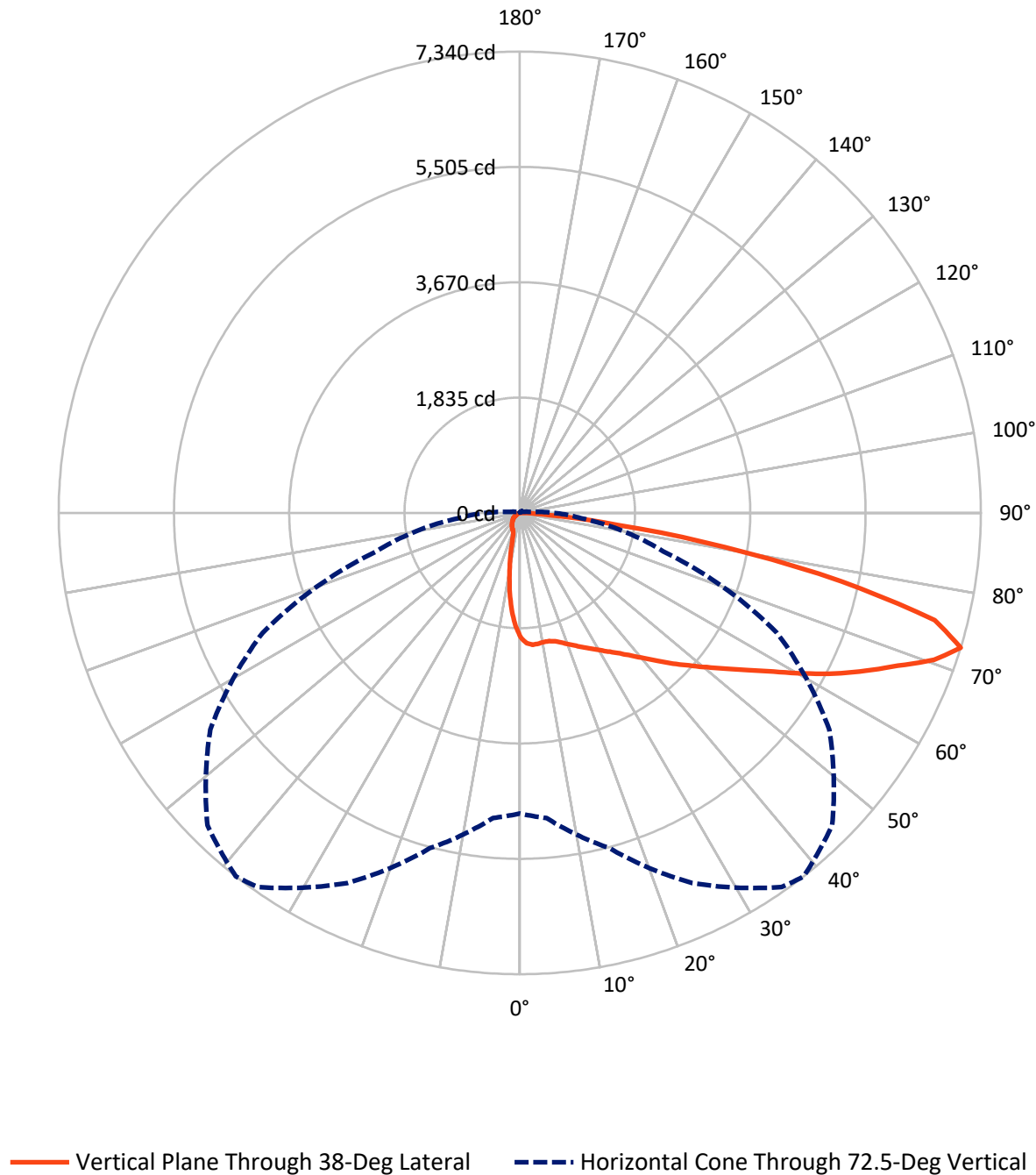


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

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	906.8	0.0	906.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9869.2	0.0	9869.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	10776.0	0.0	10776.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.6
10°-20°	412.9	3.8
20°-30°	656.8	6.1
30°-40°	987.4	9.2
40°-50°	1506.3	14.0
50°-60°	2129.0	19.8
60°-70°	2670.4	24.8
70°-80°	1996.7	18.5
80°-90°	247.6	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°	10776.0	100.0
0°-180°	10776.0	100.0

Coefficient of Utilization



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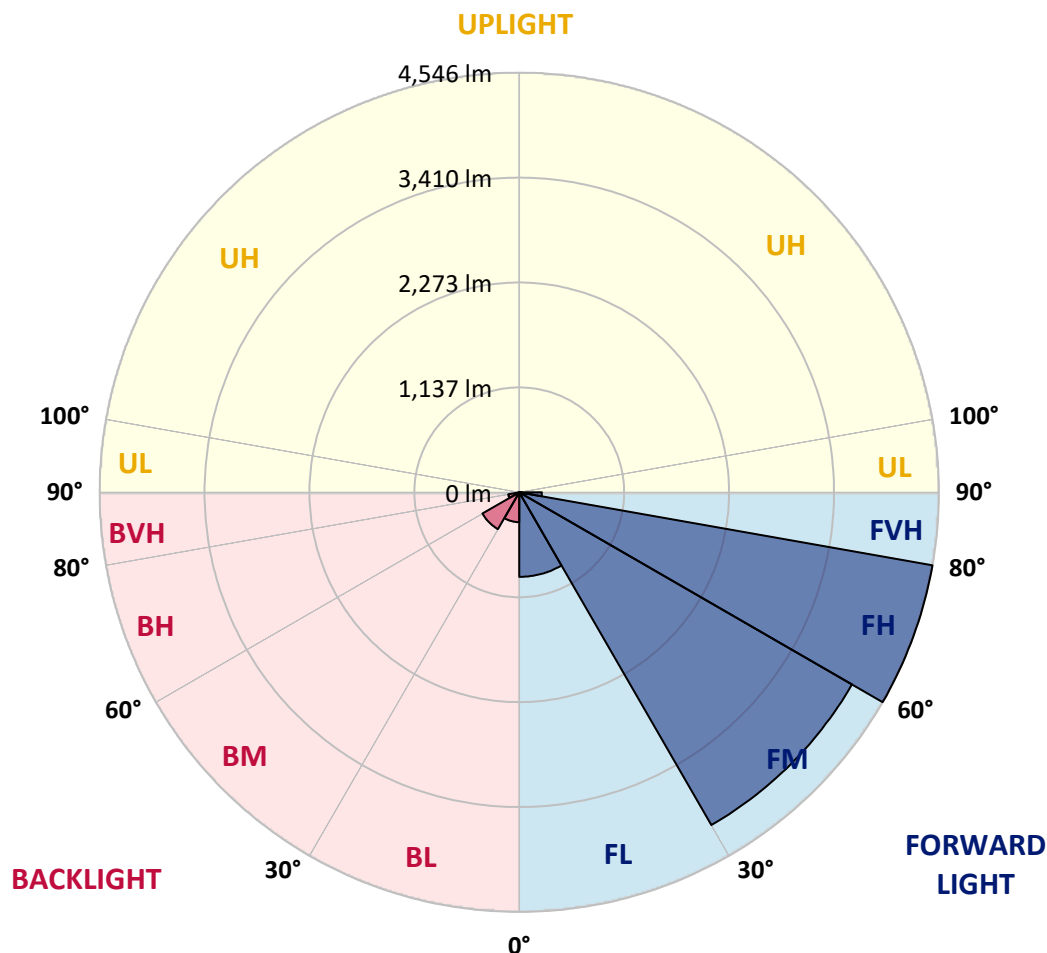
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.7	8.5			
FM	(30°-60°)	4162.2	38.6			
FH	(60°-80°)	4546.0	42.2			G2/5000
FVH	(80°-90°)	245.3	2.3			G3/500
BL	(0°-30°)	322.9	3.0	B1/500		
BM	(30°-60°)	460.5	4.3	B1/1000		
BH	(60°-80°)	121.1	1.1	B1/500		G1/500
BVH	(80°-90°)	2.3	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°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2103.4	2103.8	2098.9	2090.9	2080.6	2075.2	2066.3	2051.9	2036.7	2009.4	1979.9
5°	2146.4	2146.4	2140.1	2129.4	2112.8	2107.9	2090.9	2068.0	2036.7	1992.4	1942.7
7.5°	2141.9	2142.8	2134.3	2123.1	2106.5	2102.1	2081.5	2056.0	2017.0	1963.3	1899.8
10°	2118.6	2120.9	2114.1	2108.8	2093.6	2088.6	2069.4	2043.9	2004.9	1947.7	1874.7
12.5°	2094.9	2097.1	2099.4	2104.3	2094.9	2093.1	2077.9	2056.4	2019.3	1959.7	1877.4
15°	2079.7	2084.2	2100.3	2119.5	2121.7	2120.0	2110.1	2090.0	2052.4	1990.6	1896.6
17.5°	2079.7	2086.8	2120.4	2157.1	2170.1	2171.4	2162.9	2134.7	2090.0	2023.7	1914.5
20°	2097.1	2107.0	2159.3	2211.3	2232.7	2232.7	2216.2	2176.8	2124.4	2053.7	1926.6
22.5°	2141.9	2154.9	2220.7	2280.6	2303.4	2298.5	2276.1	2218.9	2160.2	2087.7	1941.8
25°	2230.1	2239.9	2308.4	2368.8	2382.7	2371.5	2343.3	2269.9	2205.9	2133.8	1969.6
27.5°	2343.7	2345.1	2415.8	2466.8	2458.3	2450.7	2415.3	2333.9	2271.7	2199.6	2017.5
30°	2468.6	2468.6	2530.8	2569.7	2543.8	2537.5	2502.2	2411.3	2355.8	2289.1	2085.5
32.5°	2589.4	2594.8	2645.4	2670.0	2640.9	2634.6	2600.2	2509.3	2467.7	2425.6	2191.6
35°	2706.2	2710.3	2758.1	2771.6	2743.8	2745.6	2721.0	2644.0	2628.4	2623.0	2351.3
37.5°	2819.5	2820.3	2869.1	2877.6	2863.8	2879.0	2881.2	2813.2	2842.3	2885.7	2576.4
40°	2922.8	2923.7	2972.1	2994.0	3017.7	3037.4	3054.9	3018.6	3114.8	3215.5	2844.5
42.5°	3005.6	3015.0	3076.3	3118.0	3180.6	3218.2	3265.6	3263.8	3439.3	3590.5	3168.5
45°	3078.6	3094.7	3180.2	3253.1	3360.5	3420.5	3494.8	3553.0	3804.5	4008.1	3496.6
47.5°	3174.8	3190.0	3287.6	3407.1	3550.3	3629.0	3752.1	3877.9	4205.9	4418.0	3817.0
50°	3310.4	3303.7	3399.9	3571.3	3755.2	3858.6	4034.1	4222.5	4604.2	4775.2	4005.4
52.5°	3454.9	3452.3	3523.4	3749.9	3996.9	4117.7	4349.6	4578.7	4985.1	5021.3	4091.8
55°	3634.0	3614.7	3674.7	3953.5	4283.8	4413.6	4686.6	4931.4	5288.5	5160.0	4135.2
57.5°	3821.5	3789.7	3847.0	4180.4	4607.3	4760.8	5059.8	5275.1	5490.3	5254.9	4134.7
60°	4015.3	3977.7	4045.7	4464.1	5009.2	5186.9	5464.4	5507.3	5678.7	5302.8	4104.3
62.5°	4177.3	4154.9	4256.0	4767.6	5458.1	5632.6	5770.0	5718.6	5837.6	5339.9	4033.2
65°	4348.7	4350.0	4513.4	5121.6	5935.2	6052.9	6064.5	5992.5	5970.5	5332.3	3792.4
67.5°	4580.5	4602.0	4874.5	5602.2	6399.3	6490.1	6489.2	6289.2	6067.6	5029.8	3258.5
70°	4825.7	4876.3	5290.7	6152.2	6905.9	6998.1	6950.6	6478.0	5713.2	4067.2	2306.1
72.5°	4784.6	4872.3	5522.1	6499.1	7269.7	7340.0	7031.6	6013.9	4515.6	2363.9	981.9
75°	3691.2	3792.8	5063.4	6155.4	6888.0	6824.9	6041.7	4679.8	2467.7	659.7	221.1
77.5°	1949.9	2004.0	3344.9	4689.2	5370.8	5238.8	4256.0	2596.1	752.3	163.3	99.4
80°	1021.3	1033.8	1457.6	2660.6	3314.9	3315.8	2522.3	1140.3	310.1	83.7	66.7
82.5°	546.9	557.6	770.2	1229.4	1736.9	1574.4	965.8	627.4	180.4	47.4	64.0
85°	131.6	133.8	436.8	561.7	682.9	487.8	286.9	526.7	48.8	27.7	51.9
87.5°	50.6	51.5	162.0	243.0	174.1	112.8	134.3	196.5	6.3	10.7	8.1
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°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1962.0	1950.3	1921.7	1885.5	1853.2	1830.0	1795.1	1772.2	1757.0	1756.6	1750.7
5°	1912.3	1888.6	1826.8	1753.4	1686.7	1626.8	1556.1	1500.1	1458.5	1451.8	1437.5
7.5°	1859.0	1820.1	1725.2	1610.7	1498.8	1385.1	1253.1	1171.2	1100.9	1067.4	1063.8
10°	1826.4	1771.8	1637.1	1471.5	1296.1	1111.2	938.5	819.0	732.6	708.0	689.6
12.5°	1819.7	1747.6	1569.0	1340.8	1090.2	845.8	654.7	527.6	458.7	436.8	431.0
15°	1826.4	1736.4	1511.8	1211.5	881.6	600.1	439.5	365.6	339.7	333.4	333.0
17.5°	1830.4	1723.0	1446.9	1067.8	679.4	428.7	336.5	315.1	311.0	310.6	311.5
20°	1830.0	1702.4	1369.4	907.6	505.3	337.0	304.3	299.8	299.0	299.4	299.0
22.5°	1826.8	1678.2	1284.4	742.5	381.7	301.2	290.4	287.8	287.3	287.3	287.3
25°	1832.6	1659.0	1190.9	584.5	314.6	284.6	277.9	275.7	275.2	275.2	274.3
27.5°	1853.7	1648.3	1088.4	449.8	284.2	269.9	264.5	264.0	262.7	262.3	263.1
30°	1887.7	1648.3	976.1	350.0	265.8	254.6	250.6	249.7	249.3	248.8	249.3
32.5°	1947.7	1660.8	853.4	290.9	248.4	237.6	235.0	236.3	235.0	235.0	235.0
35°	2056.0	1698.4	725.0	253.8	230.0	221.1	218.4	220.2	219.3	219.3	218.8
37.5°	2213.9	1768.2	595.7	231.4	213.9	204.5	200.9	203.6	202.7	202.7	202.3
40°	2406.4	1869.8	472.6	214.4	198.3	188.4	185.3	186.6	184.4	184.4	185.3
42.5°	2644.0	1998.7	365.2	197.8	182.6	173.2	171.4	170.1	166.0	163.8	164.2
45°	2908.1	2132.9	284.6	181.7	167.8	160.2	157.5	154.0	147.2	142.8	143.2
47.5°	3143.9	2236.3	231.4	166.0	154.4	148.6	144.6	137.8	128.0	122.6	123.1
50°	3267.9	2252.0	196.9	150.4	141.9	136.0	130.2	119.9	108.3	102.5	102.0
52.5°	3299.7	2178.6	171.4	136.0	129.3	122.6	115.0	101.1	88.2	81.9	81.0
55°	3311.3	2066.7	148.6	122.6	115.9	108.3	98.5	82.8	70.7	64.4	64.0
57.5°	3272.8	1899.8	130.7	110.5	102.5	93.1	81.0	66.2	54.6	49.7	49.7
60°	3187.3	1673.8	116.8	97.6	88.6	77.9	65.3	51.5	40.7	36.7	36.7
62.5°	3016.8	1381.1	103.8	84.1	75.6	64.4	52.8	38.9	28.6	26.4	26.9
65°	2695.0	1047.7	90.8	72.1	64.4	53.3	41.2	27.7	19.2	19.2	20.1
67.5°	2197.8	727.7	77.4	61.3	55.5	43.4	31.3	19.2	13.4	15.2	17.0
70°	1454.9	408.1	66.2	50.6	47.4	34.5	23.3	13.0	10.7	14.3	17.5
72.5°	549.1	158.9	55.5	40.7	41.2	26.4	16.6	9.8	9.8	15.7	20.6
75°	153.1	77.9	39.8	30.0	32.2	19.2	12.1	8.5	9.4	17.9	24.2
77.5°	90.0	57.3	26.0	17.5	21.9	13.4	8.1	6.7	8.1	15.2	23.3
80°	72.5	30.4	15.2	9.0	12.1	7.6	5.4	4.0	2.2	5.8	12.1
82.5°	72.5	18.3	7.2	6.3	6.3	4.0	2.7	1.8	0.4	0.0	3.1
85°	48.8	7.6	4.5	4.0	3.1	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	8.1	3.1	1.8	0.9	0.4	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)