

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: P321536

Luminaire Tested: **GAN-SA2D-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10211 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

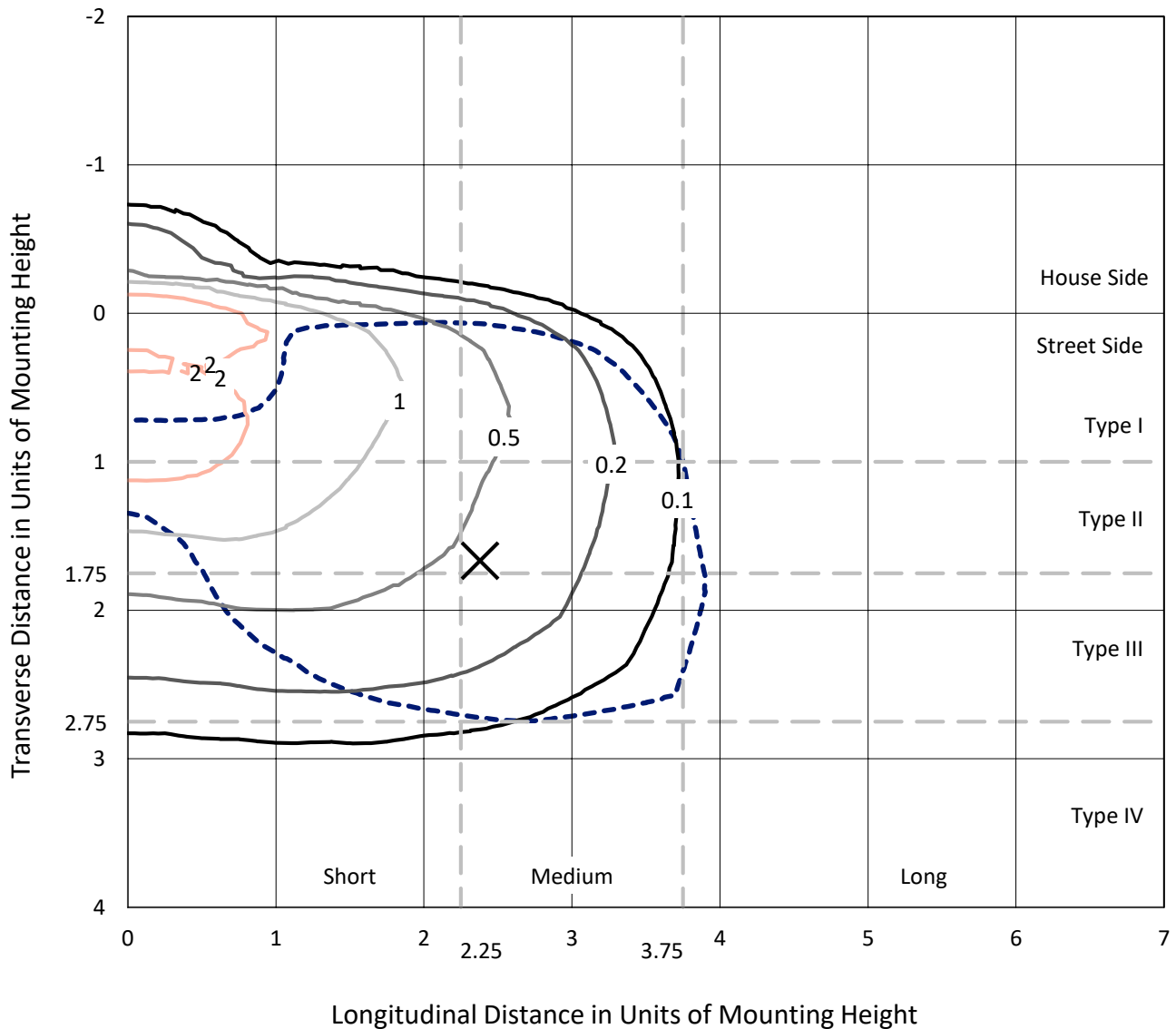
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

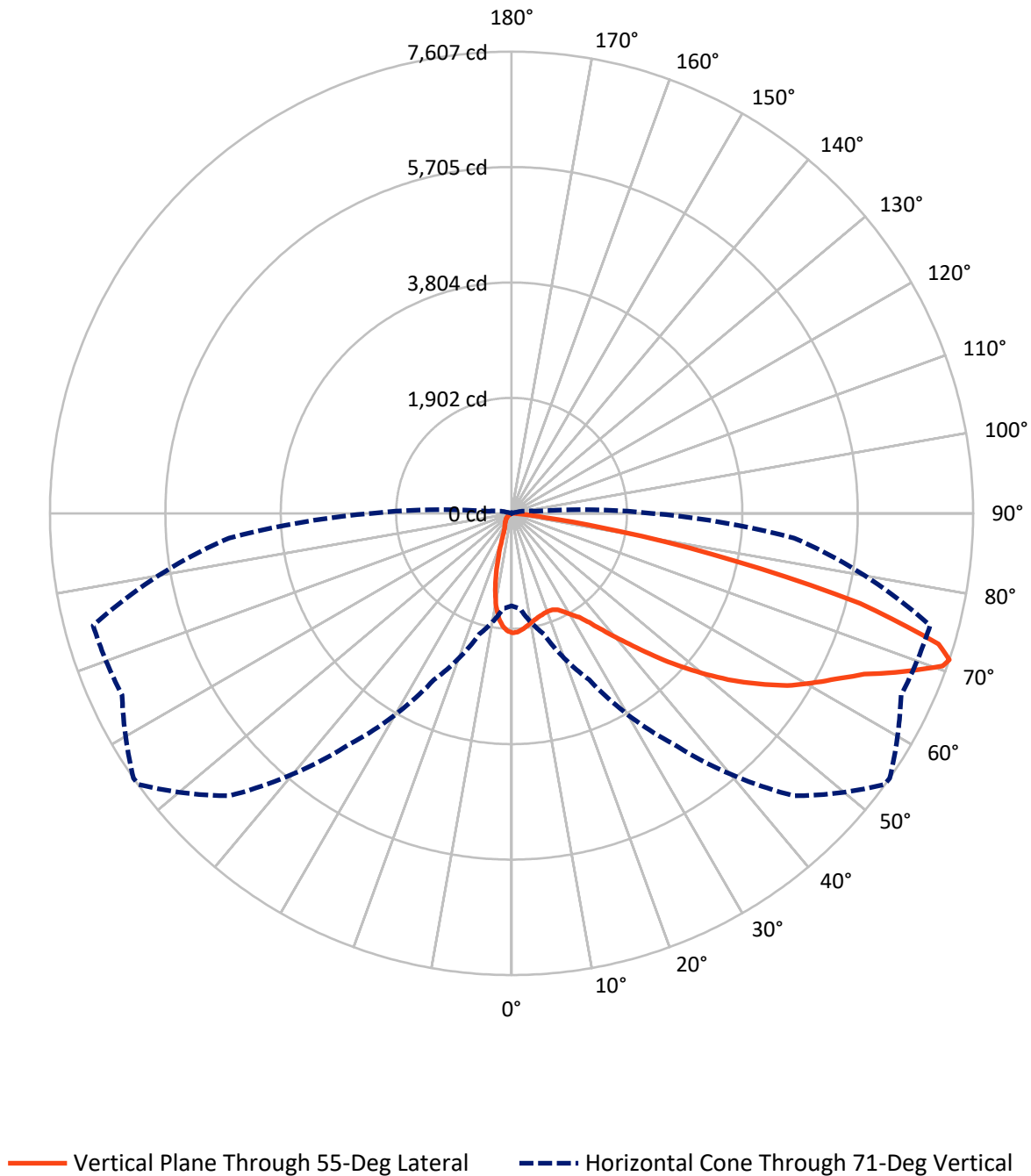
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.4	0.0	808.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	9402.6	0.0	9402.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	10211.0	0.0	10211.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	1.6
10°-20°	379.1	3.7
20°-30°	609.2	6.0
30°-40°	1035.0	10.1
40°-50°	1606.4	15.7
50°-60°	2159.8	21.2
60°-70°	2642.1	25.9
70°-80°	1544.8	15.1
80°-90°	66.8	0.7
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°	10211.0	100.0
0°-180°	10211.0	100.0

Coefficient of Utilization



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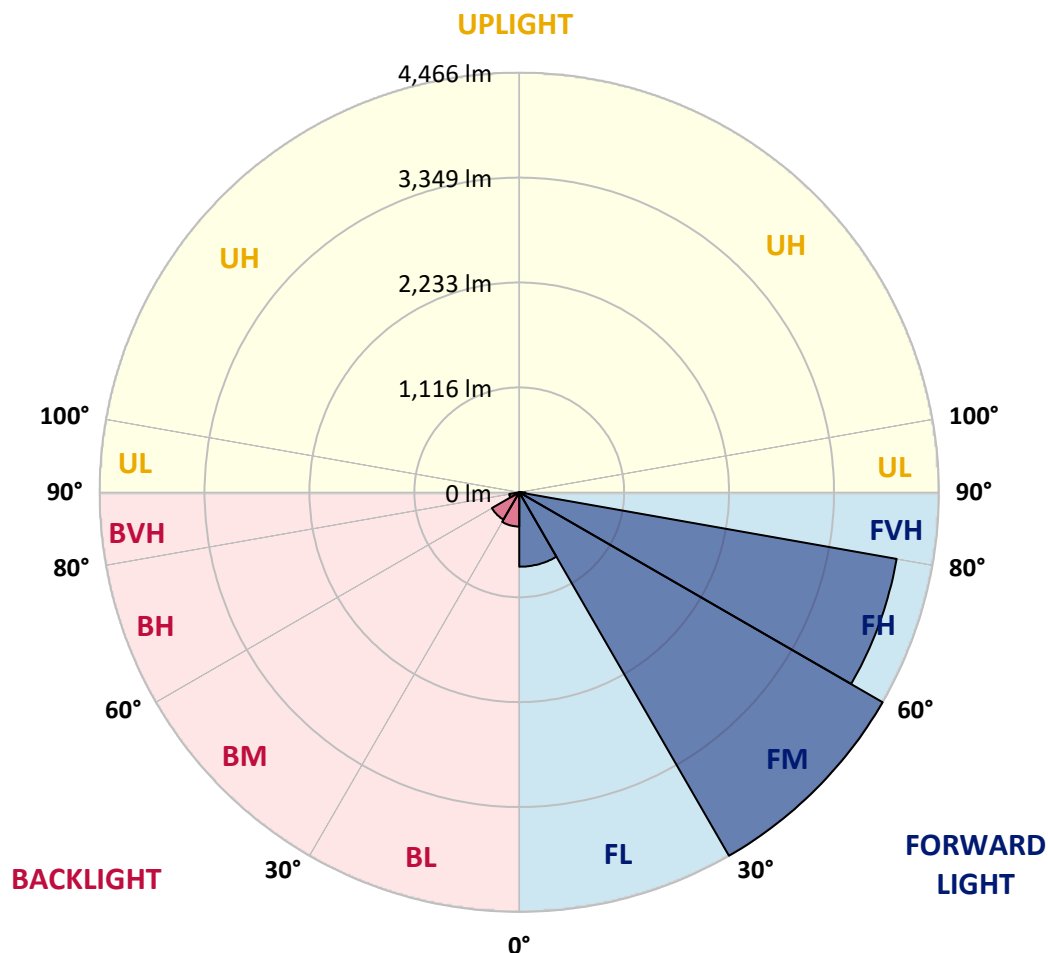
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.2	7.8			
FM	(30°-60°)	4466.0	43.7			
FH	(60°-80°)	4078.6	39.9			G2/5000
FVH	(80°-90°)	65.7	0.6			G1/100
BL	(0°-30°)	363.9	3.6	B1/500		
BM	(30°-60°)	335.2	3.3	B1/1000		
BH	(60°-80°)	108.3	1.1	B0/110		G0/110
BVH	(80°-90°)	1.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2
2.5°	1911.5	1913.8	1922.0	1925.7	1934.4	1949.1	1956.4	1956.8	1968.8	1973.4	1977.0
5°	1776.2	1790.0	1803.7	1818.4	1845.0	1880.3	1915.1	1918.3	1956.8	1985.3	2000.4
7.5°	1659.7	1672.1	1688.6	1712.0	1749.6	1805.1	1863.3	1870.2	1943.1	2007.7	2041.7
10°	1540.1	1550.2	1574.0	1608.4	1660.2	1734.5	1812.9	1824.3	1930.7	2038.0	2097.6
12.5°	1412.2	1418.1	1447.0	1496.5	1572.6	1667.1	1770.2	1785.4	1922.9	2072.8	2163.6
15°	1315.0	1317.7	1345.2	1396.6	1483.7	1606.6	1737.2	1755.6	1924.8	2114.6	2235.6
17.5°	1290.2	1291.6	1306.2	1341.6	1418.6	1552.5	1711.1	1733.6	1930.3	2155.4	2308.1
20°	1390.6	1381.0	1365.9	1360.3	1393.4	1519.9	1695.5	1720.7	1937.6	2191.6	2373.2
22.5°	1666.2	1637.7	1574.9	1491.0	1440.1	1522.2	1699.6	1724.9	1961.0	2236.1	2448.4
25°	2075.1	2035.7	1928.9	1763.8	1605.2	1588.2	1734.0	1759.7	2006.4	2289.3	2520.3
27.5°	2540.5	2501.5	2370.9	2135.2	1864.7	1718.9	1812.9	1836.7	2073.8	2336.5	2575.4
30°	2986.2	2975.2	2821.1	2553.3	2191.1	1930.7	1914.7	1934.8	2123.7	2364.9	2618.9
32.5°	3364.0	3346.5	3222.7	2962.3	2564.8	2185.2	2034.3	2040.3	2161.3	2401.6	2675.8
35°	3714.3	3692.7	3584.0	3337.8	2948.1	2496.0	2218.6	2209.9	2243.4	2475.4	2758.3
37.5°	4020.1	4039.8	3919.2	3684.9	3292.0	2819.3	2467.2	2441.0	2371.8	2595.5	2878.0
40°	4275.9	4275.9	4213.1	4017.8	3663.4	3153.5	2748.2	2713.8	2564.8	2780.8	3029.7
42.5°	4368.1	4387.8	4411.2	4300.7	3995.8	3501.1	3061.4	3025.6	2836.7	3043.5	3221.4
45°	4373.6	4404.7	4524.4	4524.0	4296.1	3846.3	3414.4	3397.4	3185.2	3380.9	3458.9
47.5°	4296.1	4335.1	4532.2	4644.1	4534.0	4167.7	3800.4	3779.4	3594.6	3794.5	3707.4
50°	4176.4	4219.5	4448.8	4691.3	4695.9	4447.4	4207.1	4175.5	4045.3	4267.2	3964.1
52.5°	3962.3	4045.7	4374.0	4702.3	4802.3	4689.0	4594.1	4580.3	4549.6	4722.5	4168.6
55°	3504.3	3596.9	4186.5	4706.0	4900.8	4903.1	4956.8	4960.4	5022.3	5148.0	4320.8
57.5°	3287.9	3340.1	3859.1	4723.4	5047.1	5146.1	5326.3	5354.7	5450.6	5551.9	4494.6
60°	3151.7	3213.6	3697.7	4699.6	5276.8	5464.8	5668.8	5678.4	5781.1	5968.7	4729.8
62.5°	3043.0	3104.0	3596.0	4607.9	5534.9	5848.1	6003.5	6004.4	6081.5	6465.2	4997.1
65°	2774.8	2826.2	3390.1	4504.7	5705.5	6227.3	6392.3	6386.4	6449.2	6988.8	5307.5
67.5°	2386.9	2426.3	2969.7	4113.6	5641.3	6572.0	6979.2	6959.5	6883.4	7441.3	5429.5
70°	1845.4	1859.6	2340.6	3428.2	5039.8	6704.5	7546.3	7536.3	7149.7	7360.2	4982.4
71°	1525.4	1572.2	2062.8	3025.6	4636.7	6582.1	7601.4	7607.3	7082.8	7139.2	4674.8
72.5°	885.8	925.7	1495.1	2323.6	3936.6	6071.4	7316.2	7359.3	6770.1	6493.6	3993.0
75°	189.8	203.1	554.3	1124.7	2165.5	4255.3	5774.7	5928.3	5518.0	4417.6	2406.6
77.5°	132.0	142.6	237.5	510.3	715.7	2102.6	3587.3	3760.6	3296.6	1660.2	770.3
80°	104.5	116.5	185.2	252.2	193.5	678.1	1680.4	1786.3	1099.5	370.5	129.8
82.5°	58.2	69.2	144.4	136.2	74.3	128.8	470.4	531.9	220.1	74.7	30.7
85°	17.0	20.6	93.1	99.0	31.6	24.8	80.2	99.5	41.7	19.7	13.8
87.5°	0.0	0.0	44.9	38.1	9.2	3.7	7.3	8.3	8.3	8.3	9.2
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°	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2	1969.2
2.5°	1977.0	1980.2	1968.8	1953.6	1937.6	1917.9	1897.2	1881.2	1880.7	1872.9	1865.2
5°	2001.3	1999.5	1967.9	1919.7	1862.9	1803.7	1747.3	1683.6	1662.5	1636.4	1627.7
7.5°	2046.3	2033.4	1966.5	1861.0	1736.3	1612.5	1484.6	1355.8	1300.7	1251.2	1242.5
10°	2102.6	2078.3	1957.8	1773.0	1544.2	1315.9	1122.8	947.7	870.7	811.5	808.8
12.5°	2161.3	2124.2	1933.5	1640.0	1292.5	971.5	749.2	576.8	512.6	471.3	475.0
15°	2222.8	2167.3	1881.2	1460.8	1005.9	659.3	460.3	359.0	333.3	322.8	325.5
17.5°	2285.6	2197.1	1808.3	1244.8	723.0	425.5	318.7	290.2	290.2	292.5	293.4
20°	2340.1	2213.1	1701.0	1002.7	490.1	309.9	278.8	274.6	276.9	280.6	281.1
22.5°	2394.3	2214.1	1561.2	757.4	343.0	271.4	265.5	263.6	265.0	269.1	269.6
25°	2438.3	2203.1	1386.0	538.7	273.7	255.8	253.1	252.2	253.1	258.1	258.1
27.5°	2456.1	2163.2	1172.4	378.7	245.3	238.4	237.5	238.4	239.8	243.5	243.9
30°	2458.0	2093.5	939.5	274.2	222.4	215.0	216.9	220.1	218.7	217.8	218.7
32.5°	2462.6	2012.8	712.5	225.6	203.1	191.7	189.4	189.4	183.9	180.6	178.8
35°	2477.7	1917.9	516.7	202.7	183.4	170.1	161.4	151.3	140.8	135.3	133.9
37.5°	2501.5	1818.4	370.0	187.5	166.0	150.8	134.3	116.5	101.3	97.2	97.2
40°	2545.1	1715.7	273.7	175.6	152.2	133.4	108.7	85.3	71.5	69.2	69.2
42.5°	2613.9	1607.5	218.2	165.1	140.3	115.5	83.0	61.9	51.8	50.4	50.0
45°	2685.4	1488.3	190.7	155.0	127.5	94.9	61.4	45.8	39.9	38.5	38.5
47.5°	2756.9	1361.3	177.4	145.3	115.1	73.8	45.8	36.2	33.5	33.5	33.9
50°	2817.4	1228.8	167.8	134.8	99.0	55.9	36.2	30.7	29.8	31.6	32.1
52.5°	2832.6	1098.5	155.9	121.5	79.3	42.6	29.8	27.1	27.1	27.1	27.1
55°	2823.4	997.7	140.3	105.0	58.7	33.9	25.7	23.8	23.4	23.4	23.4
57.5°	2854.6	938.1	112.3	81.6	42.2	27.5	22.5	21.1	20.2	19.7	19.7
60°	2917.4	899.1	80.2	58.7	31.6	22.9	19.3	17.9	16.5	15.6	15.6
62.5°	3000.8	865.2	59.6	43.6	24.3	18.3	16.0	14.7	12.8	11.9	11.9
65°	3065.0	804.7	45.4	32.6	18.3	14.7	12.4	11.9	9.2	8.3	7.8
67.5°	2966.9	671.7	36.7	23.8	13.8	11.5	9.6	9.2	5.5	4.6	4.6
70°	2544.6	467.7	29.3	17.4	10.1	9.2	7.8	6.0	4.1	3.7	3.7
71°	2307.6	390.6	26.6	14.7	8.7	8.7	7.3	5.0	3.7	3.2	3.2
72.5°	1917.0	277.4	22.5	11.5	7.8	9.2	7.8	4.6	3.7	3.2	2.8
75°	1112.8	116.0	15.6	7.8	6.0	11.0	10.1	4.1	2.8	2.3	2.3
77.5°	334.7	42.6	8.7	5.0	4.6	9.6	11.5	3.7	1.4	0.5	0.5
80°	61.0	18.3	5.5	3.2	3.2	6.0	8.7	1.8	0.0	0.0	0.0
82.5°	21.5	9.2	3.2	1.8	1.4	2.8	4.1	0.0	0.0	0.0	0.0
85°	12.4	6.4	1.8	0.9	0.0	0.5	0.9	0.0	0.0	0.0	0.0
87.5°	8.3	1.8	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)