

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: P321757

Luminaire Tested: **GAN-SA3B-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321757
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-SA3B-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 10663 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

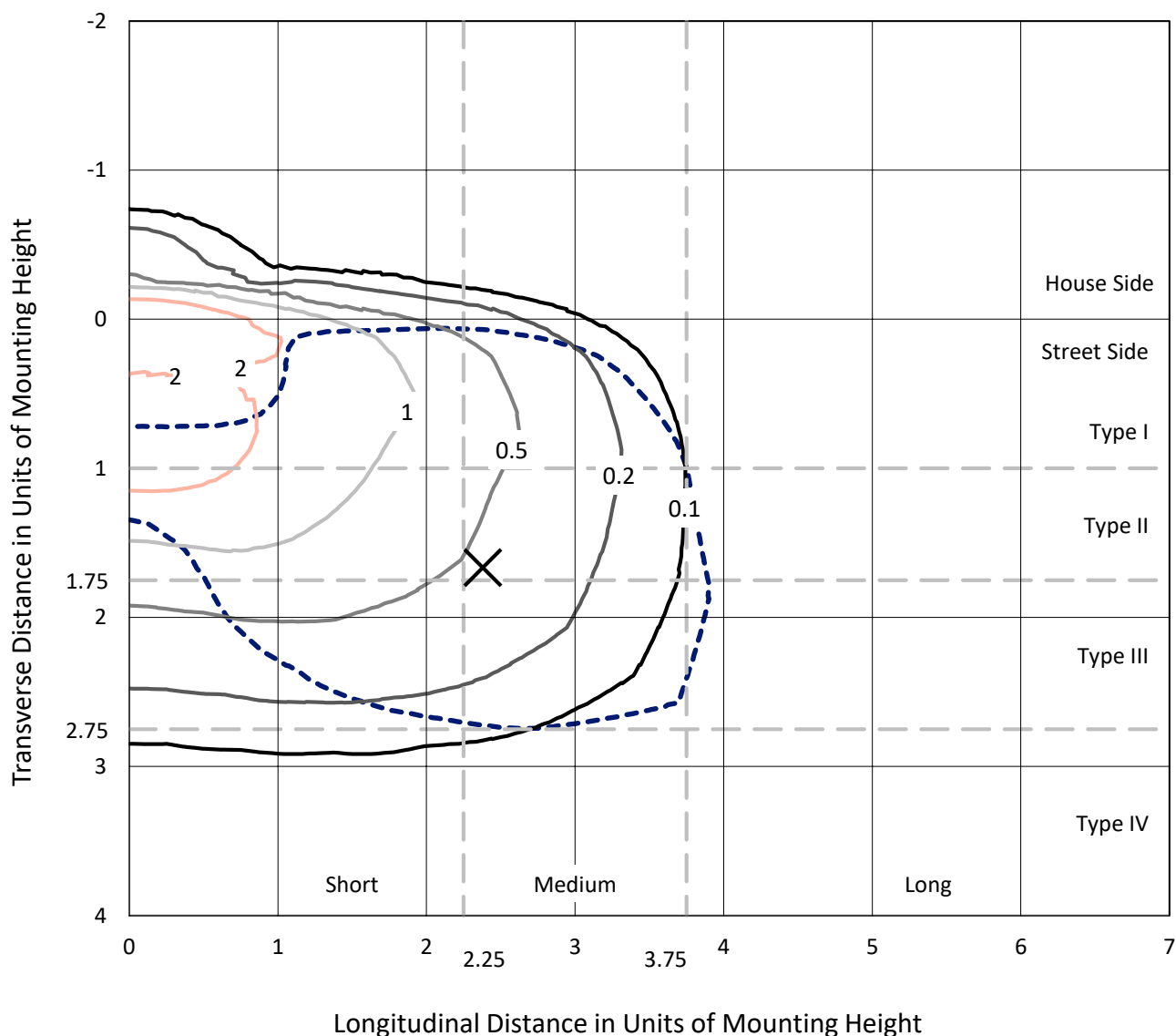
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

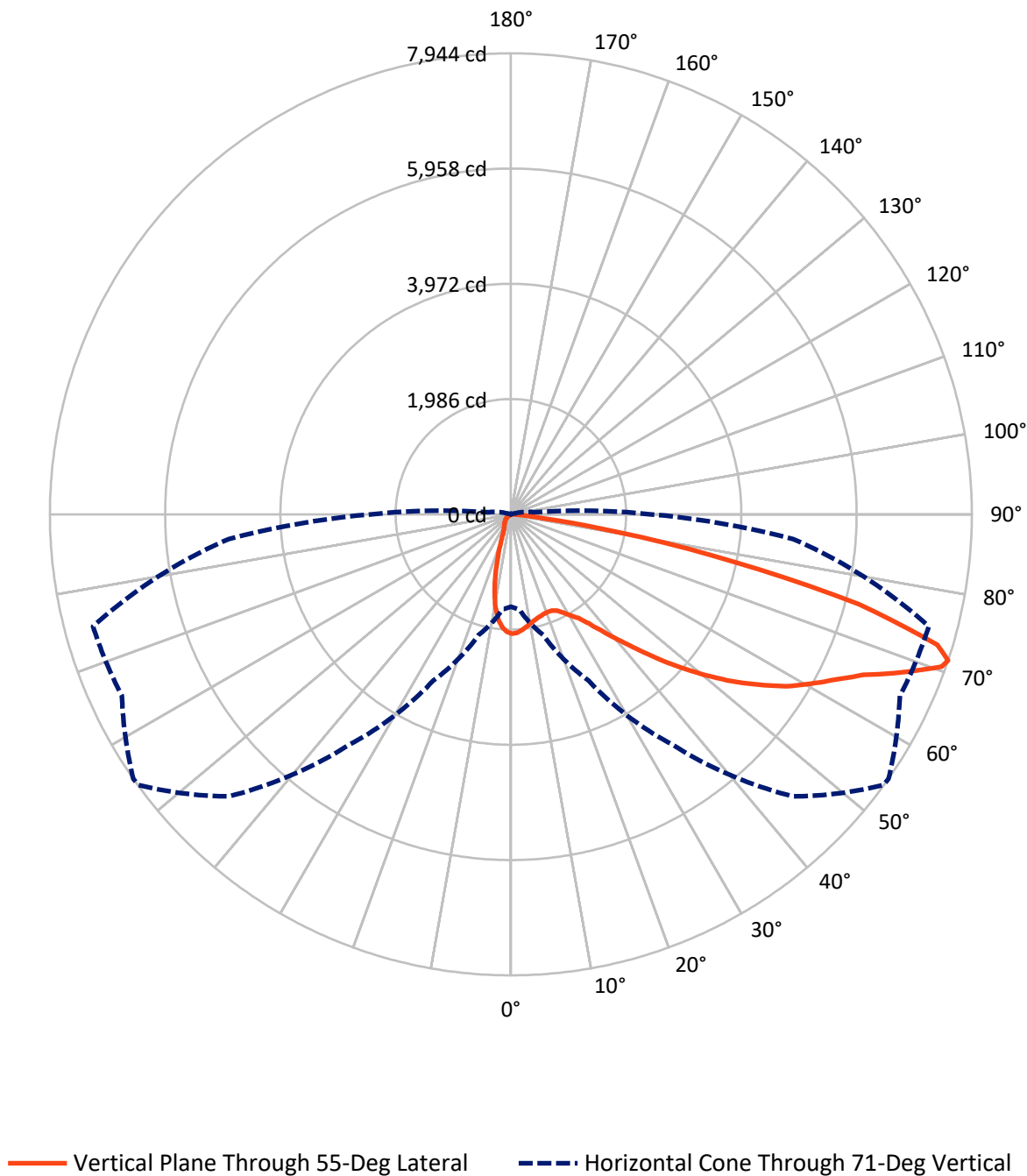
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	844.2	0.0	844.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	9818.8	0.0	9818.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	10663.0	0.0	10663.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	1.6
10°-20°	395.8	3.7
20°-30°	636.1	6.0
30°-40°	1080.8	10.1
40°-50°	1677.5	15.7
50°-60°	2255.4	21.2
60°-70°	2759.1	25.9
70°-80°	1613.2	15.1
80°-90°	69.7	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°	10663.0	100.0
0°-180°	10663.0	100.0

Coefficient of Utilization



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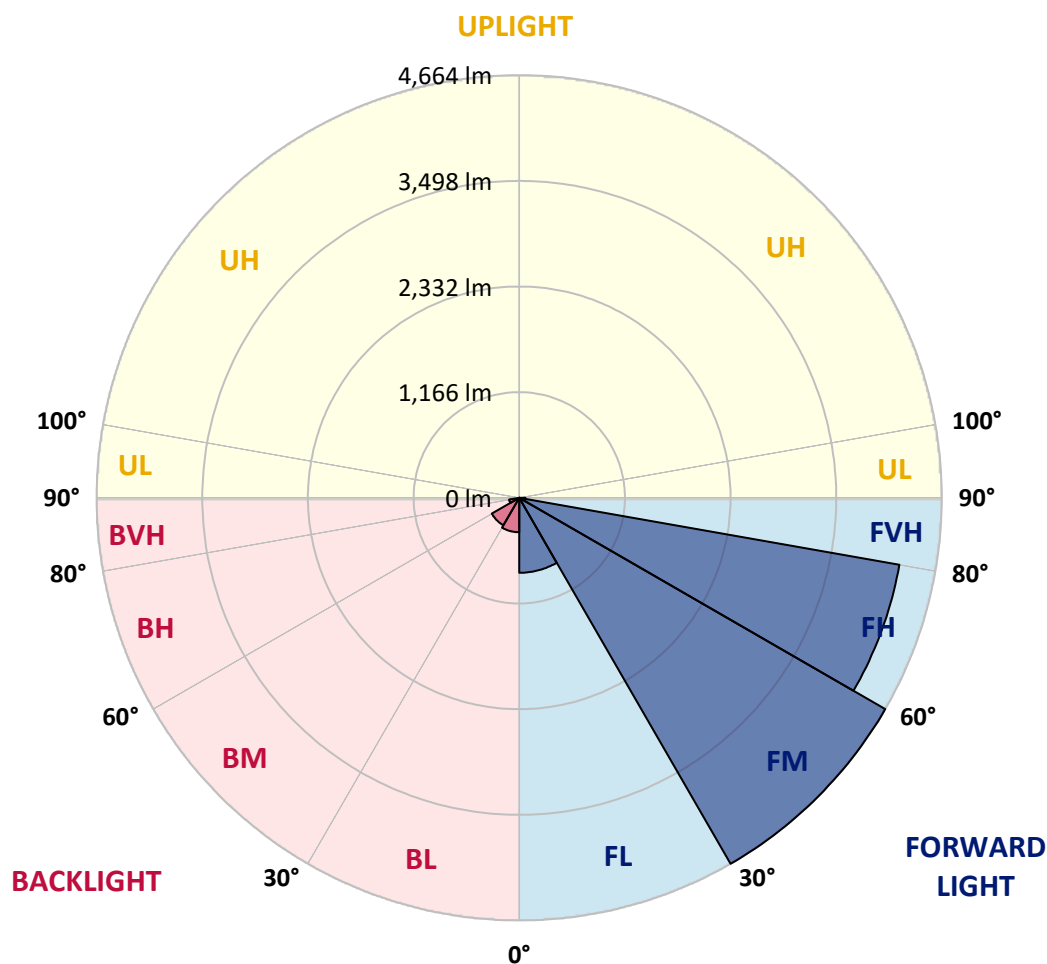
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	827.3	7.8			
FM	(30°-60°)	4663.7	43.7			
FH	(60°-80°)	4259.2	39.9			G2/5000
FVH	(80°-90°)	68.6	0.6			G1/100
BL	(0°-30°)	380.0	3.6	B1/500		
BM	(30°-60°)	350.0	3.3	B1/1000		
BH	(60°-80°)	113.1	1.1	B1/500		G1/500
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°	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4
2.5°	1996.1	1998.5	2007.1	2010.9	2020.0	2035.3	2043.0	2043.5	2055.9	2060.7	2064.5
5°	1854.8	1869.2	1883.6	1898.9	1926.6	1963.5	1999.9	2003.3	2043.5	2073.2	2089.0
7.5°	1733.2	1746.1	1763.4	1787.8	1827.1	1885.0	1945.8	1953.0	2029.1	2096.6	2132.0
10°	1608.3	1618.8	1643.7	1679.6	1733.7	1811.3	1893.1	1905.1	2016.2	2128.2	2190.5
12.5°	1474.7	1480.9	1511.1	1562.8	1642.2	1740.9	1848.6	1864.4	2008.0	2164.6	2259.4
15°	1373.2	1376.0	1404.8	1458.4	1549.4	1677.7	1814.1	1833.3	2010.0	2208.2	2334.6
17.5°	1347.3	1348.7	1364.1	1400.9	1481.4	1621.2	1786.8	1810.3	2015.7	2250.8	2410.2
20°	1452.2	1442.1	1426.3	1420.6	1455.0	1587.2	1770.6	1796.9	2023.4	2288.6	2478.2
22.5°	1739.9	1710.2	1644.6	1557.0	1503.9	1589.6	1774.9	1801.2	2047.8	2335.1	2556.7
25°	2167.0	2125.8	2014.3	1841.9	1676.2	1658.5	1810.8	1837.6	2095.2	2390.6	2631.9
27.5°	2653.0	2612.3	2475.8	2229.7	1947.2	1795.0	1893.1	1918.0	2165.6	2439.9	2689.4
30°	3118.4	3106.9	2946.0	2666.4	2288.1	2016.2	1999.4	2020.5	2217.7	2469.6	2734.8
32.5°	3512.9	3494.7	3365.4	3093.5	2678.3	2281.9	2124.4	2130.6	2257.0	2507.9	2794.2
35°	3878.7	3856.2	3742.7	3485.6	3078.6	2606.5	2316.9	2307.8	2342.7	2585.0	2880.4
37.5°	4198.0	4218.6	4092.7	3848.0	3437.7	2944.1	2576.4	2549.1	2476.8	2710.4	3005.4
40°	4465.2	4465.2	4399.6	4195.6	3825.5	3293.1	2869.9	2834.0	2678.3	2903.9	3163.8
42.5°	4561.4	4582.0	4606.4	4491.0	4172.6	3656.0	3196.9	3159.5	2962.3	3178.2	3364.0
45°	4567.2	4599.7	4724.7	4724.2	4486.3	4016.6	3565.5	3547.8	3326.1	3530.6	3612.0
47.5°	4486.3	4526.9	4732.8	4849.7	4734.7	4352.2	3968.7	3946.7	3753.7	3962.5	3871.5
50°	4361.3	4406.3	4645.7	4899.0	4903.8	4644.3	4393.4	4360.3	4224.4	4456.1	4139.6
52.5°	4137.7	4224.8	4567.6	4910.5	5014.8	4896.6	4797.5	4783.1	4751.0	4931.5	4353.1
55°	3659.4	3756.1	4371.8	4914.3	5117.8	5120.2	5176.2	5180.0	5244.7	5375.8	4512.1
57.5°	3433.4	3488.0	4030.0	4932.5	5270.5	5373.9	5562.1	5591.8	5691.8	5797.7	4693.6
60°	3291.2	3355.8	3861.4	4907.6	5510.4	5706.7	5919.7	5929.8	6037.0	6232.9	4939.2
62.5°	3177.7	3241.4	3755.1	4811.8	5779.9	6107.0	6269.3	6270.2	6350.7	6751.4	5218.3
65°	2897.6	2951.3	3540.2	4704.1	5958.0	6502.9	6675.3	6669.0	6734.6	7298.2	5542.5
67.5°	2492.6	2533.8	3101.1	4295.7	5891.0	6863.0	7288.1	7267.5	7188.1	7770.7	5669.8
70°	1927.1	1942.0	2444.2	3579.9	5262.8	7001.3	7880.4	7869.9	7466.2	7686.0	5203.0
71°	1592.9	1641.8	2154.1	3159.5	4842.0	6873.5	7937.8	7944.1	7396.3	7455.2	4881.7
72.5°	925.0	966.7	1561.3	2426.5	4110.9	6340.1	7640.0	7685.0	7069.8	6781.1	4169.8
75°	198.2	212.1	578.9	1174.5	2261.3	4443.6	6030.3	6190.7	5762.2	4613.1	2513.2
77.5°	137.9	148.9	248.0	532.9	747.4	2195.7	3746.0	3927.0	3442.5	1733.7	804.4
80°	109.2	121.6	193.4	263.3	202.0	708.1	1754.8	1865.4	1148.1	386.9	135.5
82.5°	60.8	72.3	150.8	142.2	77.6	134.5	491.2	555.4	229.8	78.0	32.1
85°	17.7	21.5	97.2	103.4	33.0	25.9	83.8	103.9	43.6	20.6	14.4
87.5°	0.0	0.0	46.9	39.7	9.6	3.8	7.7	8.6	8.6	8.6	9.6
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°	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4
2.5°	2064.5	2067.9	2055.9	2040.1	2023.4	2002.8	1981.2	1964.5	1964.0	1955.9	1947.7
5°	2089.9	2088.0	2055.0	2004.7	1945.3	1883.6	1824.7	1758.1	1736.1	1708.8	1699.7
7.5°	2136.8	2123.4	2053.5	1943.4	1813.2	1683.9	1550.3	1415.8	1358.3	1306.6	1297.5
10°	2195.7	2170.3	2044.4	1851.5	1612.6	1374.1	1172.6	989.7	909.2	847.5	844.6
12.5°	2257.0	2218.2	2019.1	1712.6	1349.7	1014.6	782.3	602.3	535.3	492.2	496.0
15°	2321.2	2263.2	1964.5	1525.4	1050.5	688.5	480.7	374.9	348.1	337.1	339.9
17.5°	2386.8	2294.4	1888.3	1299.9	755.0	444.3	332.8	303.1	303.1	305.5	306.4
20°	2443.7	2311.1	1776.3	1047.1	511.8	323.7	291.1	286.8	289.2	293.0	293.5
22.5°	2500.2	2312.1	1630.3	791.0	358.1	283.4	277.2	275.3	276.7	281.0	281.5
25°	2546.2	2300.6	1447.4	562.6	285.8	267.2	264.3	263.3	264.3	269.6	269.6
27.5°	2564.9	2258.9	1224.3	395.5	256.2	249.0	248.0	249.0	250.4	254.2	254.7
30°	2566.8	2186.1	981.0	286.3	232.2	224.6	226.5	229.8	228.4	227.4	228.4
32.5°	2571.6	2101.9	744.0	235.6	212.1	200.1	197.7	197.7	192.0	188.6	186.7
35°	2587.4	2002.8	539.6	211.6	191.5	177.6	168.5	158.0	147.0	141.2	139.8
37.5°	2612.3	1898.9	386.4	195.8	173.3	157.5	140.3	121.6	105.8	101.5	101.5
40°	2657.8	1791.6	285.8	183.4	159.0	139.3	113.5	89.1	74.7	72.3	72.3
42.5°	2729.6	1678.6	227.9	172.4	146.5	120.7	86.7	64.6	54.1	52.7	52.2
45°	2804.3	1554.1	199.2	161.8	133.1	99.1	64.2	47.9	41.7	40.2	40.2
47.5°	2879.0	1421.5	185.3	151.8	120.2	77.1	47.9	37.8	35.0	35.0	35.4
50°	2942.2	1283.2	175.2	140.8	103.4	58.4	37.8	32.1	31.1	33.0	33.5
52.5°	2958.0	1147.2	162.8	126.9	82.8	44.5	31.1	28.2	28.2	28.2	28.2
55°	2948.4	1041.8	146.5	109.6	61.3	35.4	26.8	24.9	24.4	24.4	24.4
57.5°	2980.9	979.6	117.3	85.2	44.0	28.7	23.5	22.0	21.1	20.6	20.6
60°	3046.5	938.9	83.8	61.3	33.0	23.9	20.1	18.7	17.2	16.3	16.3
62.5°	3133.7	903.5	62.2	45.5	25.4	19.2	16.8	15.3	13.4	12.4	12.4
65°	3200.7	840.3	47.4	34.0	19.2	15.3	12.9	12.4	9.6	8.6	8.1
67.5°	3098.2	701.4	38.3	24.9	14.4	12.0	10.1	9.6	5.7	4.8	4.8
70°	2657.3	488.4	30.6	18.2	10.5	9.6	8.1	6.2	4.3	3.8	3.8
71°	2409.7	407.9	27.8	15.3	9.1	9.1	7.7	5.3	3.8	3.4	3.4
72.5°	2001.8	289.7	23.5	12.0	8.1	9.6	8.1	4.8	3.8	3.4	2.9
75°	1162.0	121.1	16.3	8.1	6.2	11.5	10.5	4.3	2.9	2.4	2.4
77.5°	349.5	44.5	9.1	5.3	4.8	10.1	12.0	3.8	1.4	0.5	0.5
80°	63.7	19.2	5.7	3.4	3.4	6.2	9.1	1.9	0.0	0.0	0.0
82.5°	22.5	9.6	3.4	1.9	1.4	2.9	4.3	0.0	0.0	0.0	0.0
85°	12.9	6.7	1.9	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	8.6	1.9	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)