

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: P321507

Luminaire Tested: **GAN-SA3A-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321507
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-SA3A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 9151 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

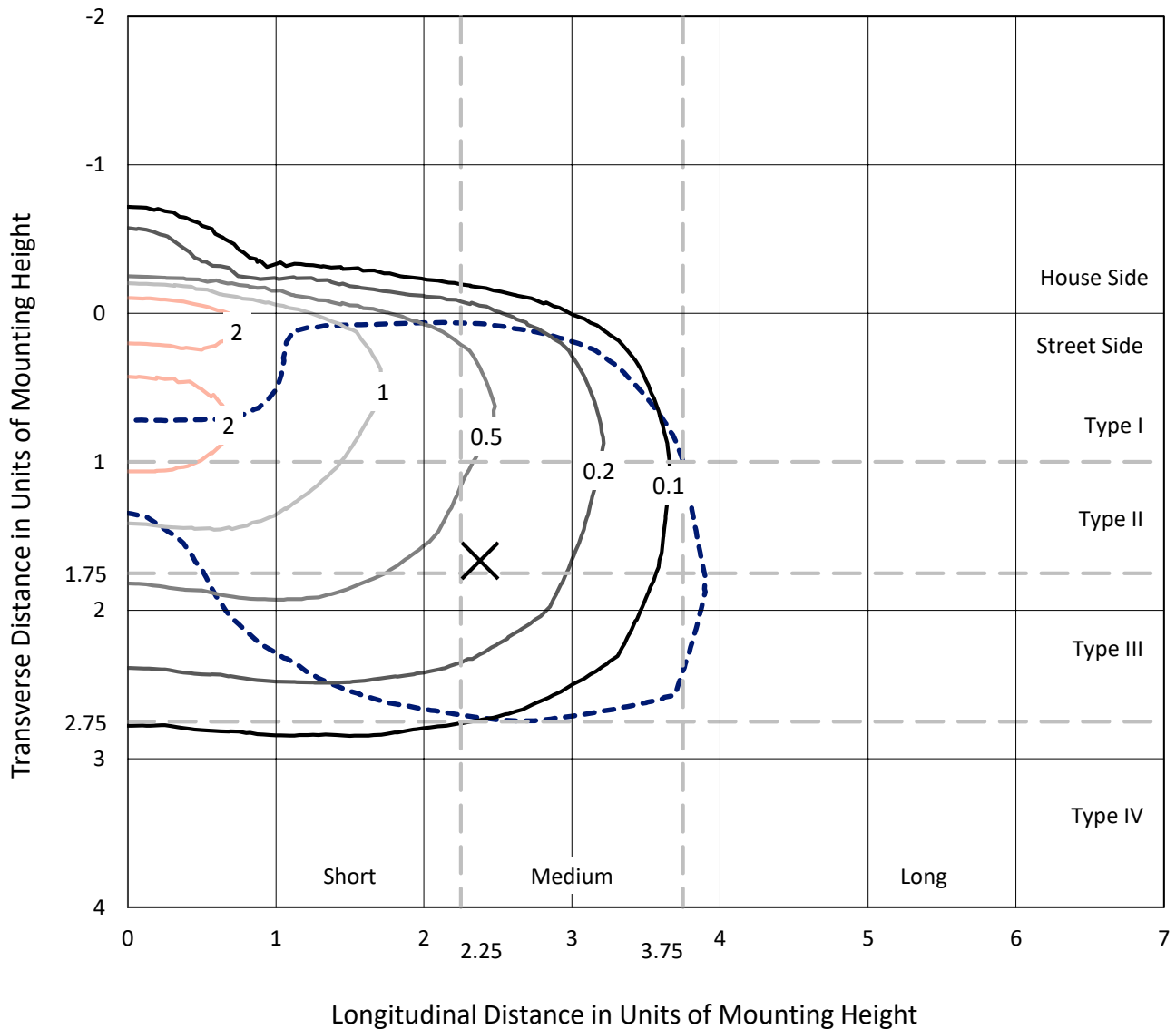
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

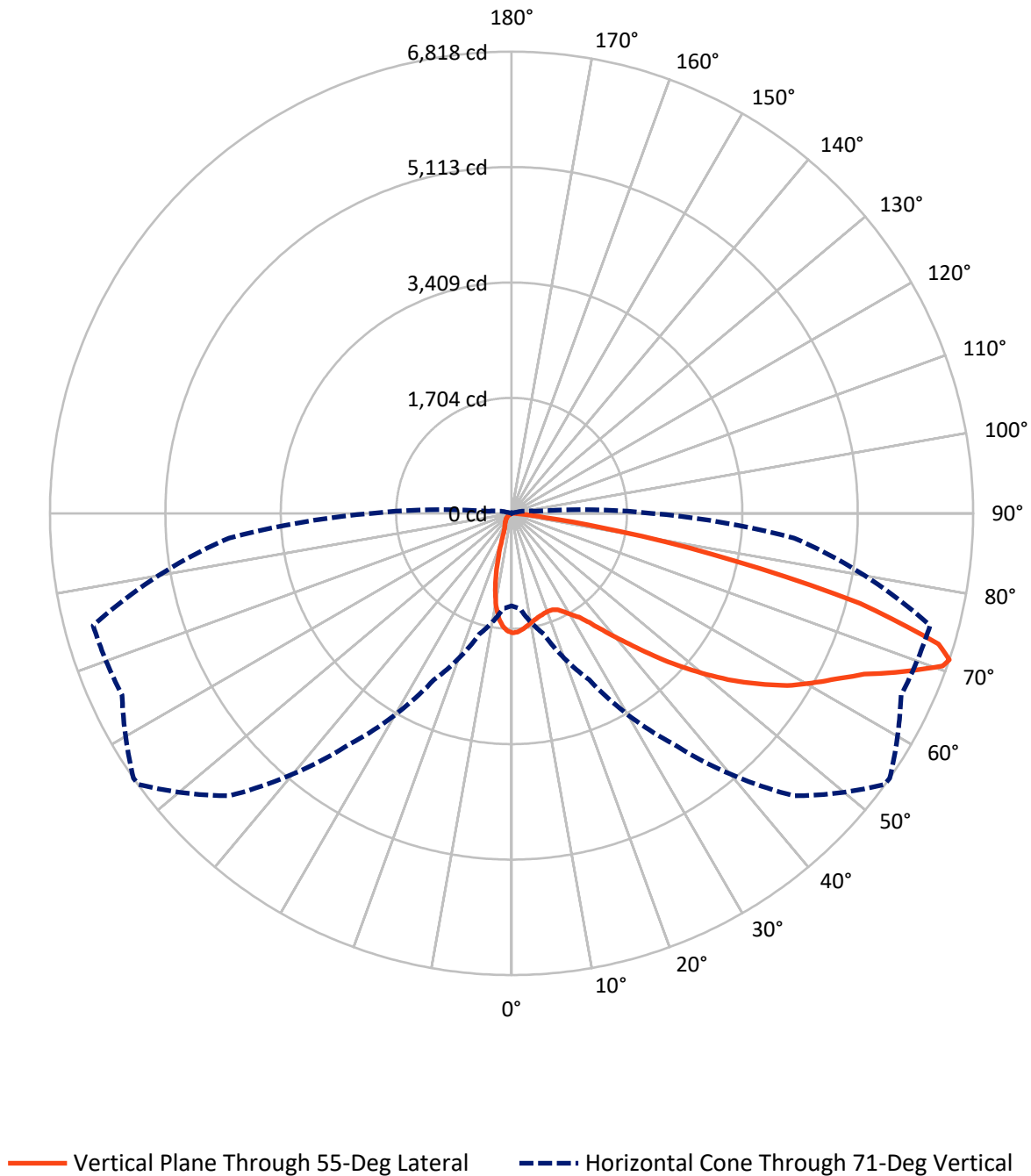
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	724.5	0.0	724.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8426.5	0.0	8426.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	9151.0	0.0	9151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	1.6
10°-20°	339.7	3.7
20°-30°	545.9	6.0
30°-40°	927.5	10.1
40°-50°	1439.7	15.7
50°-60°	1935.6	21.2
60°-70°	2367.9	25.9
70°-80°	1384.4	15.1
80°-90°	59.8	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°	9151.0	100.0
0°-180°	9151.0	100.0

Coefficient of Utilization



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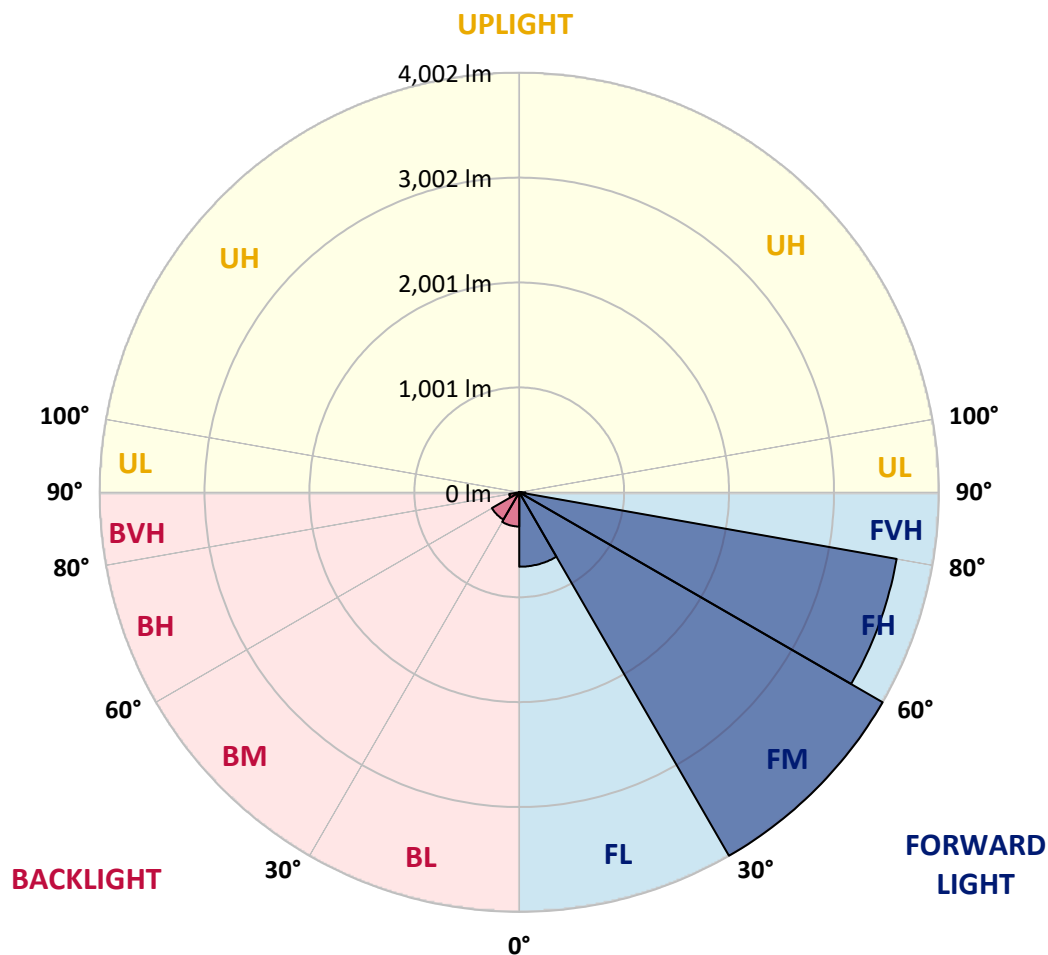
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.0	7.8			
FM	(30°-60°)	4002.4	43.7			
FH	(60°-80°)	3655.2	39.9			G2/5000
FVH	(80°-90°)	58.9	0.6			G1/100
BL	(0°-30°)	326.1	3.6	B1/500		
BM	(30°-60°)	300.4	3.3	B1/1000		
BH	(60°-80°)	97.1	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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°	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8
2.5°	1713.0	1715.1	1722.5	1725.8	1733.6	1746.7	1753.3	1753.7	1764.4	1768.5	1771.8
5°	1591.8	1604.1	1616.5	1629.6	1653.5	1685.1	1716.3	1719.2	1753.7	1779.2	1792.7
7.5°	1487.4	1498.5	1513.3	1534.3	1568.0	1617.7	1669.9	1676.0	1741.4	1799.3	1829.7
10°	1380.2	1389.2	1410.6	1441.4	1487.9	1554.4	1624.7	1635.0	1730.3	1826.4	1879.9
12.5°	1265.6	1270.9	1296.8	1341.2	1409.4	1494.0	1586.5	1600.0	1723.3	1857.7	1939.0
15°	1178.5	1180.9	1205.6	1251.6	1329.7	1439.8	1556.9	1573.3	1724.9	1895.1	2003.5
17.5°	1156.3	1157.5	1170.6	1202.3	1271.3	1391.3	1533.5	1553.6	1729.9	1931.6	2068.5
20°	1246.3	1237.6	1224.1	1219.1	1248.7	1362.1	1519.5	1542.1	1736.5	1964.1	2126.8
22.5°	1493.2	1467.7	1411.4	1336.2	1290.6	1364.2	1523.2	1545.8	1757.4	2003.9	2194.2
25°	1859.7	1824.4	1728.6	1580.7	1438.6	1423.3	1554.0	1577.0	1798.1	2051.6	2258.7
27.5°	2276.8	2241.9	2124.7	1913.5	1671.1	1540.5	1624.7	1646.1	1858.5	2093.9	2308.0
30°	2676.2	2666.3	2528.3	2288.3	1963.7	1730.3	1715.9	1734.0	1903.3	2119.4	2347.0
32.5°	3014.8	2999.1	2888.2	2654.8	2298.6	1958.3	1823.2	1828.5	1937.0	2152.3	2398.0
35°	3328.7	3309.4	3212.0	2991.3	2642.1	2236.9	1988.3	1980.5	2010.5	2218.4	2472.0
37.5°	3602.7	3620.4	3512.3	3302.4	2950.2	2526.6	2211.0	2187.6	2125.6	2326.1	2579.2
40°	3832.0	3832.0	3775.7	3600.7	3283.1	2826.2	2462.9	2432.1	2298.6	2492.1	2715.2
42.5°	3914.6	3932.3	3953.2	3854.2	3581.0	3137.6	2743.6	2711.5	2542.2	2727.5	2887.0
45°	3919.5	3947.5	4054.7	4054.3	3850.1	3447.0	3060.0	3044.7	2854.5	3030.0	3099.8
47.5°	3850.1	3885.0	4061.7	4162.0	4063.4	3735.1	3405.9	3387.0	3221.4	3400.6	3322.5
50°	3742.9	3781.5	3986.9	4204.3	4208.4	3985.7	3770.4	3742.0	3625.3	3824.2	3552.6
52.5°	3551.0	3625.8	3920.0	4214.2	4303.7	4202.2	4117.2	4104.9	4077.3	4232.2	3735.9
55°	3140.5	3223.5	3751.9	4217.4	4392.1	4394.1	4442.2	4445.5	4501.0	4613.6	3872.3
57.5°	2946.5	2993.4	3458.5	4233.1	4523.2	4611.9	4773.4	4798.9	4884.7	4975.6	4028.0
60°	2824.5	2880.0	3313.9	4211.7	4729.0	4897.5	5080.3	5089.0	5181.0	5349.1	4238.8
62.5°	2727.1	2781.8	3222.7	4129.5	4960.4	5241.0	5380.3	5381.1	5450.1	5794.1	4478.4
65°	2486.7	2532.8	3038.2	4037.1	5113.2	5580.8	5728.7	5723.4	5779.7	6263.3	4756.5
67.5°	2139.1	2174.5	2661.4	3686.6	5055.7	5889.8	6254.7	6237.0	6168.8	6668.9	4865.8
70°	1653.9	1666.6	2097.6	3072.3	4516.6	6008.5	6763.0	6753.9	6407.5	6596.1	4465.2
71°	1367.1	1409.0	1848.6	2711.5	4155.4	5898.8	6812.3	6817.6	6347.5	6398.1	4189.5
72.5°	793.9	829.6	1339.9	2082.4	3528.0	5441.1	6556.7	6595.3	6067.3	5819.5	3578.5
75°	170.1	182.0	496.8	1007.9	1940.7	3813.5	5175.2	5312.9	4945.1	3959.0	2156.8
77.5°	118.3	127.8	212.8	457.3	641.4	1884.4	3214.9	3370.2	2954.4	1487.9	690.3
80°	93.7	104.4	166.0	226.0	173.4	607.7	1505.9	1600.9	985.3	332.0	116.3
82.5°	52.2	62.0	129.4	122.0	66.6	115.5	421.6	476.6	197.2	67.0	27.5
85°	15.2	18.5	83.4	88.8	28.4	22.2	71.9	89.2	37.4	17.7	12.3
87.5°	0.0	0.0	40.3	34.1	8.2	3.3	6.6	7.4	7.4	7.4	8.2
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°	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8	1764.8
2.5°	1771.8	1774.7	1764.4	1750.8	1736.5	1718.8	1700.3	1685.9	1685.5	1678.5	1671.5
5°	1793.6	1791.9	1763.6	1720.4	1669.5	1616.5	1565.9	1508.8	1489.9	1466.5	1458.7
7.5°	1833.8	1822.3	1762.3	1667.8	1556.1	1445.1	1330.5	1215.0	1165.7	1121.3	1113.5
10°	1884.4	1862.6	1754.5	1588.9	1383.9	1179.3	1006.3	849.3	780.3	727.3	724.8
12.5°	1937.0	1903.7	1732.8	1469.8	1158.3	870.7	671.4	516.9	459.4	422.4	425.7
15°	1992.0	1942.3	1685.9	1309.1	901.5	590.9	412.5	321.7	298.7	289.3	291.7
17.5°	2048.3	1969.0	1620.6	1115.6	648.0	381.3	285.6	260.1	260.1	262.2	263.0
20°	2097.2	1983.4	1524.4	898.6	439.2	277.8	249.8	246.1	248.2	251.5	251.9
22.5°	2145.7	1984.2	1399.1	678.8	307.4	243.3	237.9	236.3	237.5	241.2	241.6
25°	2185.2	1974.4	1242.1	482.8	245.3	229.3	226.8	226.0	226.8	231.3	231.3
27.5°	2201.2	1938.6	1050.7	339.4	219.8	213.7	212.8	213.7	214.9	218.2	218.6
30°	2202.8	1876.2	841.9	245.7	199.3	192.7	194.4	197.2	196.0	195.2	196.0
32.5°	2206.9	1803.8	638.5	202.2	182.0	171.8	169.7	169.7	164.8	161.9	160.2
35°	2220.5	1718.8	463.1	181.6	164.4	152.4	144.6	135.6	126.1	121.2	120.0
37.5°	2241.9	1629.6	331.6	168.1	148.7	135.2	120.4	104.4	90.8	87.1	87.1
40°	2280.9	1537.6	245.3	157.4	136.4	119.6	97.4	76.4	64.1	62.0	62.0
42.5°	2342.5	1440.6	195.6	147.9	125.7	103.5	74.4	55.5	46.4	45.2	44.8
45°	2406.6	1333.8	170.9	138.9	114.2	85.1	55.1	41.1	35.7	34.5	34.5
47.5°	2470.7	1220.0	159.0	130.3	103.1	66.2	41.1	32.5	30.0	30.0	30.4
50°	2525.0	1101.2	150.4	120.8	88.8	50.1	32.5	27.5	26.7	28.4	28.8
52.5°	2538.5	984.5	139.7	108.9	71.1	38.2	26.7	24.2	24.2	24.2	24.2
55°	2530.3	894.1	125.7	94.1	52.6	30.4	23.0	21.4	21.0	21.0	21.0
57.5°	2558.2	840.7	100.7	73.1	37.8	24.7	20.1	18.9	18.1	17.7	17.7
60°	2614.5	805.8	71.9	52.6	28.4	20.5	17.3	16.0	14.8	14.0	14.0
62.5°	2689.3	775.4	53.4	39.0	21.8	16.4	14.4	13.1	11.5	10.7	10.7
65°	2746.8	721.1	40.7	29.2	16.4	13.1	11.1	10.7	8.2	7.4	7.0
67.5°	2658.9	602.0	32.9	21.4	12.3	10.3	8.6	8.2	4.9	4.1	4.1
70°	2280.5	419.1	26.3	15.6	9.0	8.2	7.0	5.3	3.7	3.3	3.3
71°	2068.0	350.1	23.8	13.1	7.8	7.8	6.6	4.5	3.3	2.9	2.9
72.5°	1718.0	248.6	20.1	10.3	7.0	8.2	7.0	4.1	3.3	2.9	2.5
75°	997.2	104.0	14.0	7.0	5.3	9.9	9.0	3.7	2.5	2.1	2.1
77.5°	300.0	38.2	7.8	4.5	4.1	8.6	10.3	3.3	1.2	0.4	0.4
80°	54.6	16.4	4.9	2.9	2.9	5.3	7.8	1.6	0.0	0.0	0.0
82.5°	19.3	8.2	2.9	1.6	1.2	2.5	3.7	0.0	0.0	0.0	0.0
85°	11.1	5.8	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.4	1.6	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)