

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: P321776

Luminaire Tested: **GAN-SA2D-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321776
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 9703 lumens
Efficiency: N/A
Efficacy: 75.2 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

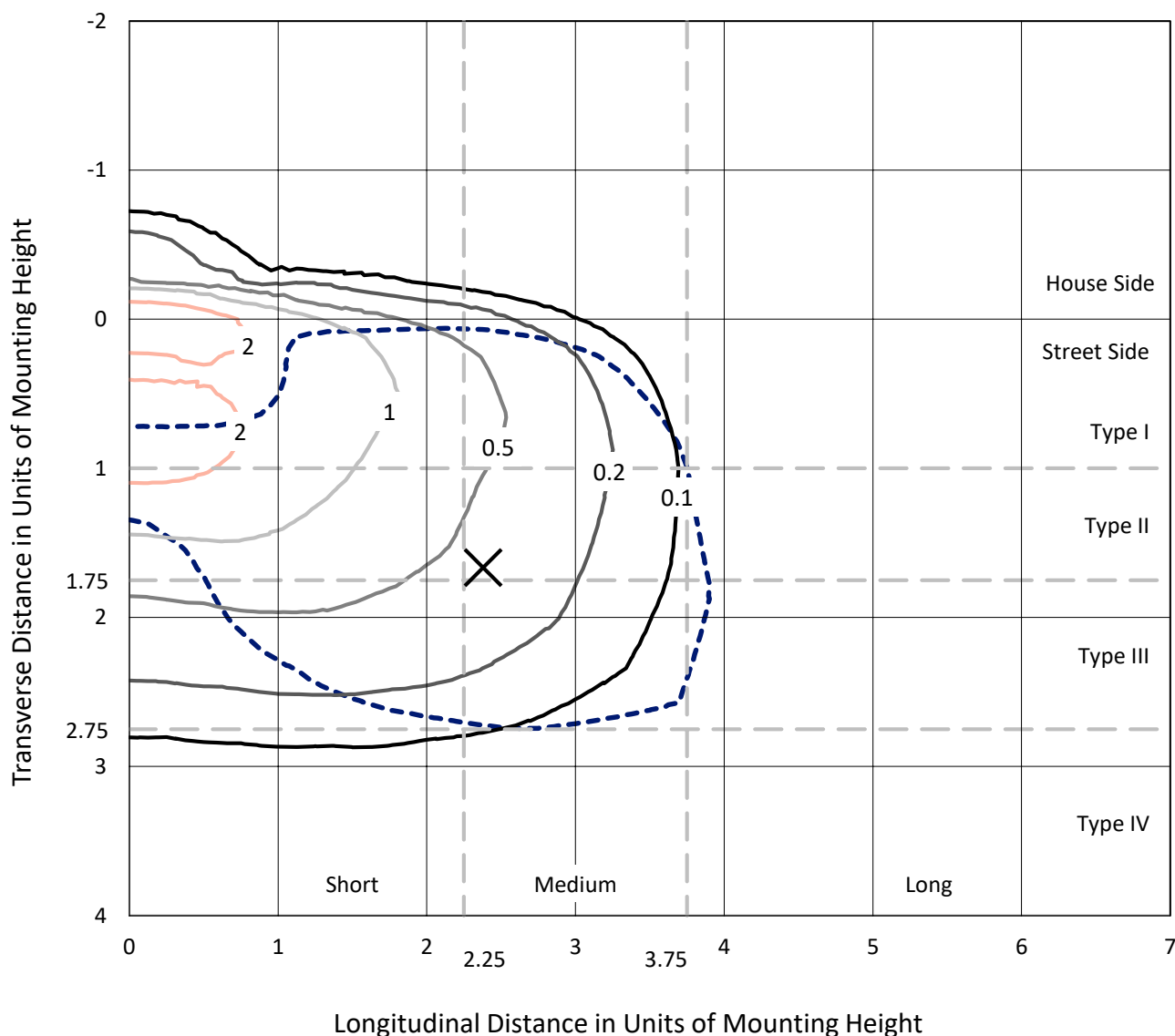


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

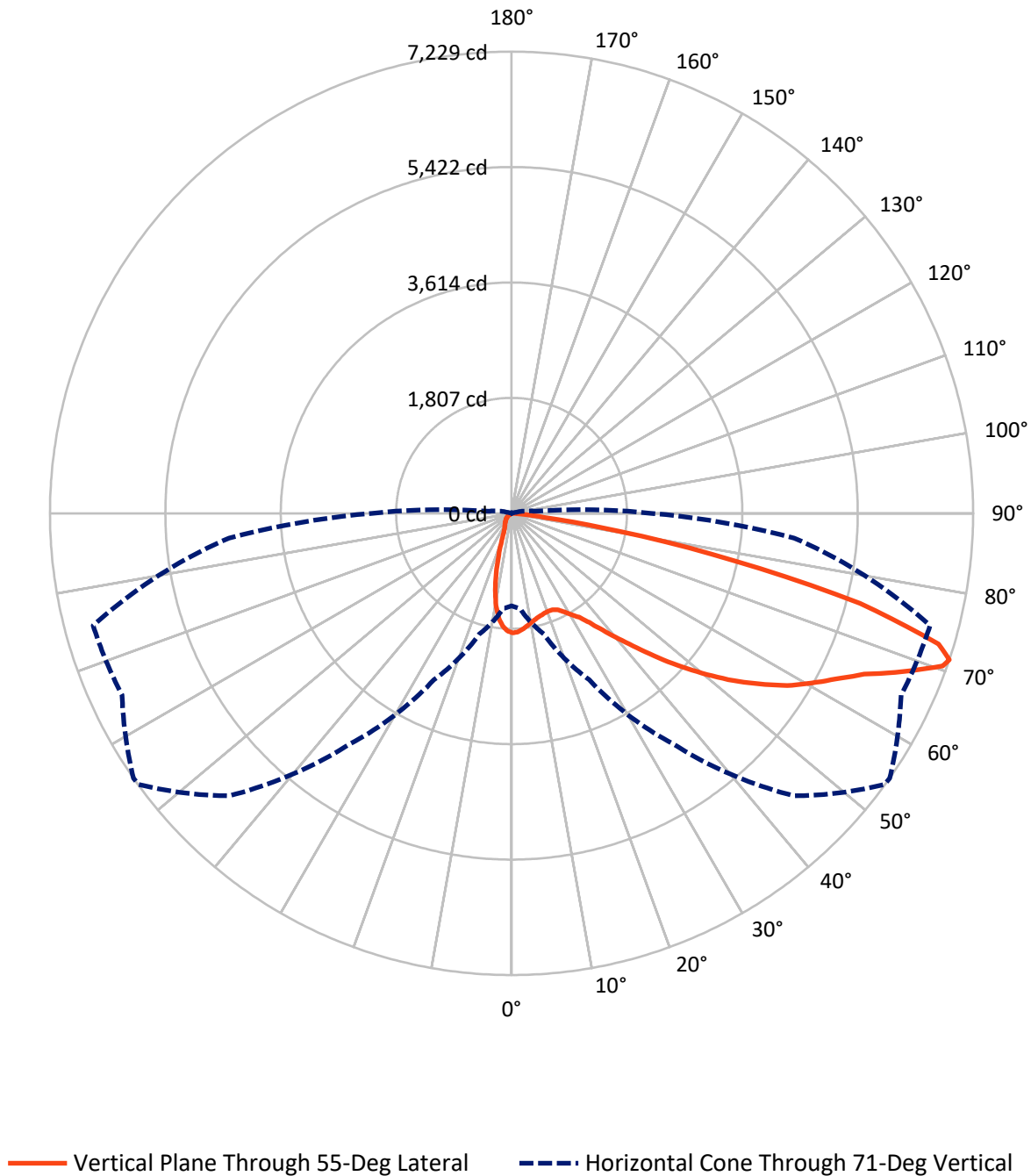
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	768.2	0.0	768.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8934.8	0.0	8934.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	9703.0	0.0	9703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.6
10°-20°	360.2	3.7
20°-30°	578.8	6.0
30°-40°	983.5	10.1
40°-50°	1526.5	15.7
50°-60°	2052.3	21.2
60°-70°	2510.7	25.9
70°-80°	1467.9	15.1
80°-90°	63.4	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°	9703.0	100.0
0°-180°	9703.0	100.0

Coefficient of Utilization



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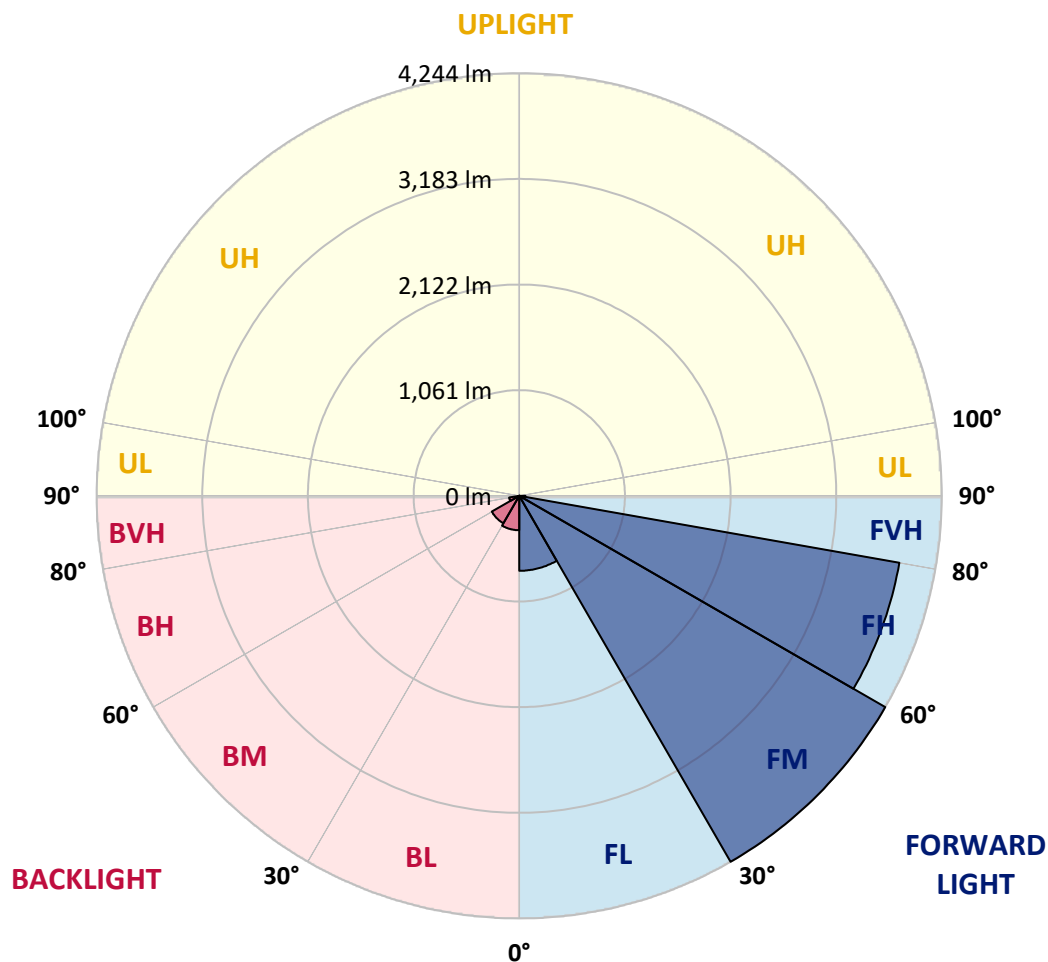
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.8	7.8			
FM	(30°-60°)	4243.8	43.7			
FH	(60°-80°)	3875.7	39.9			G2/5000
FVH	(80°-90°)	62.4	0.6			G1/100
BL	(0°-30°)	345.8	3.6	B1/500		
BM	(30°-60°)	318.5	3.3	B1/1000		
BH	(60°-80°)	102.9	1.1	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1816.4	1818.5	1826.4	1829.9	1838.1	1852.1	1859.1	1859.5	1870.8	1875.2	1878.7
5°	1687.8	1700.9	1714.0	1727.9	1753.2	1786.7	1819.8	1822.9	1859.5	1886.5	1900.9
7.5°	1577.2	1588.9	1604.6	1626.8	1662.6	1715.3	1770.6	1777.2	1846.4	1907.9	1940.1
10°	1463.5	1473.0	1495.7	1528.4	1577.6	1648.2	1722.7	1733.6	1834.7	1936.6	1993.2
12.5°	1341.9	1347.6	1375.0	1422.1	1494.4	1584.1	1682.2	1696.5	1827.3	1969.7	2056.0
15°	1249.5	1252.2	1278.3	1327.1	1409.9	1526.6	1650.8	1668.2	1829.0	2009.4	2124.4
17.5°	1226.0	1227.3	1241.3	1274.8	1348.0	1475.2	1626.0	1647.3	1834.2	2048.1	2193.2
20°	1321.4	1312.3	1297.9	1292.7	1324.0	1444.3	1611.2	1635.1	1841.2	2082.6	2255.1
22.5°	1583.3	1556.3	1496.6	1416.8	1368.5	1446.5	1615.1	1639.0	1863.4	2124.8	2326.5
25°	1971.9	1934.4	1832.9	1676.1	1525.3	1509.2	1647.8	1672.2	1906.5	2175.4	2394.9
27.5°	2414.1	2377.1	2252.9	2029.0	1771.9	1633.4	1722.7	1745.3	1970.6	2220.2	2447.2
30°	2837.6	2827.1	2680.8	2426.3	2082.1	1834.7	1819.4	1838.6	2018.1	2247.3	2488.6
32.5°	3196.6	3180.1	3062.4	2814.9	2437.2	2076.5	1933.1	1938.8	2053.8	2282.1	2542.6
35°	3529.5	3509.0	3405.7	3171.8	2801.4	2371.9	2108.3	2100.0	2131.8	2352.3	2621.1
37.5°	3820.1	3838.8	3724.2	3501.6	3128.2	2679.0	2344.4	2319.6	2253.8	2466.4	2734.8
40°	4063.2	4063.2	4003.5	3817.9	3481.1	2996.6	2611.5	2578.8	2437.2	2642.4	2879.0
42.5°	4150.8	4169.5	4191.7	4086.7	3797.0	3326.9	2909.1	2875.1	2695.6	2892.1	3061.1
45°	4156.0	4185.6	4299.3	4298.9	4082.3	3654.9	3244.5	3228.4	3026.7	3212.7	3286.8
47.5°	4082.3	4119.4	4306.7	4413.0	4308.5	3960.4	3611.4	3591.3	3415.8	3605.7	3522.9
50°	3968.6	4009.6	4227.4	4457.9	4462.3	4226.1	3997.8	3967.8	3844.0	4054.9	3766.9
52.5°	3765.2	3844.5	4156.4	4468.4	4563.3	4455.7	4365.5	4352.5	4323.3	4487.5	3961.2
55°	3329.9	3417.9	3978.2	4471.9	4657.0	4659.2	4710.2	4713.7	4772.5	4891.8	4105.9
57.5°	3124.3	3174.0	3667.1	4488.4	4796.0	4890.1	5061.3	5088.3	5179.4	5275.7	4271.0
60°	2994.9	3053.7	3513.8	4465.8	5014.3	5192.9	5386.8	5395.9	5493.5	5671.7	4494.5
62.5°	2891.6	2949.6	3417.1	4378.6	5259.6	5557.1	5704.8	5705.7	5778.9	6143.6	4748.5
65°	2636.8	2685.5	3221.4	4280.6	5421.6	5917.4	6074.3	6068.6	6128.3	6641.1	5043.5
67.5°	2268.2	2305.6	2821.9	3908.9	5360.6	6245.1	6632.0	6613.2	6540.9	7071.1	5159.4
70°	1753.6	1767.1	2224.2	3257.6	4789.0	6371.0	7170.9	7161.3	6794.0	6994.0	4734.6
71°	1449.5	1494.0	1960.1	2875.1	4406.1	6254.7	7223.2	7228.9	6730.4	6784.0	4442.2
72.5°	841.7	879.6	1420.8	2208.0	3740.8	5769.3	6952.2	6993.1	6433.3	6170.6	3794.4
75°	180.4	193.0	526.7	1068.7	2057.7	4043.6	5487.4	5633.4	5243.4	4197.8	2286.9
77.5°	125.5	135.5	225.7	484.9	680.1	1998.0	3408.8	3573.5	3132.6	1577.6	731.9
80°	99.3	110.7	176.0	239.6	183.9	644.4	1596.8	1697.4	1044.8	352.0	123.3
82.5°	55.3	65.8	137.2	129.4	70.6	122.4	447.0	505.4	209.1	71.0	29.2
85°	16.1	19.6	88.4	94.1	30.1	23.5	76.2	94.5	39.6	18.7	13.1
87.5°	0.0	0.0	42.7	36.2	8.7	3.5	7.0	7.8	7.8	7.8	8.7
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°	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3	1871.3
2.5°	1878.7	1881.7	1870.8	1856.4	1841.2	1822.5	1802.9	1787.6	1787.2	1779.8	1772.4
5°	1901.8	1900.0	1870.0	1824.2	1770.2	1714.0	1660.4	1599.8	1579.8	1555.0	1546.7
7.5°	1944.5	1932.3	1868.6	1768.4	1649.9	1532.3	1410.7	1288.3	1236.0	1189.0	1180.7
10°	1998.0	1975.0	1860.4	1684.8	1467.4	1250.4	1067.0	900.6	827.4	771.2	768.5
12.5°	2053.8	2018.5	1837.3	1558.4	1228.2	923.2	711.9	548.1	487.1	447.9	451.4
15°	2112.2	2059.5	1787.6	1388.1	955.9	626.5	437.4	341.1	316.7	306.7	309.3
17.5°	2171.9	2087.8	1718.3	1182.9	687.1	404.3	302.8	275.8	275.8	278.0	278.8
20°	2223.7	2103.0	1616.4	952.8	465.7	294.5	264.9	261.0	263.2	266.6	267.1
22.5°	2275.1	2103.9	1483.5	719.7	325.9	257.9	252.3	250.5	251.8	255.7	256.2
25°	2317.0	2093.5	1317.1	511.9	260.1	243.1	240.5	239.6	240.5	245.3	245.3
27.5°	2334.0	2055.6	1114.0	359.9	233.1	226.6	225.7	226.6	227.9	231.3	231.8
30°	2335.7	1989.3	892.7	260.5	211.3	204.3	206.1	209.1	207.8	206.9	207.8
32.5°	2340.1	1912.6	677.1	214.4	193.0	182.1	179.9	179.9	174.7	171.7	169.9
35°	2354.4	1822.5	491.0	192.6	174.3	161.6	153.4	143.8	133.8	128.5	127.2
37.5°	2377.1	1727.9	351.6	178.2	157.7	143.3	127.7	110.7	96.3	92.4	92.4
40°	2418.5	1630.3	260.1	166.9	144.6	126.8	103.3	81.0	68.0	65.8	65.8
42.5°	2483.8	1527.5	207.4	156.8	133.3	109.8	78.9	58.8	49.2	47.9	47.5
45°	2551.8	1414.2	181.2	147.3	121.1	90.2	58.4	43.6	37.9	36.6	36.6
47.5°	2619.8	1293.5	168.6	138.1	109.4	70.1	43.6	34.4	31.8	31.8	32.2
50°	2677.3	1167.6	159.5	128.1	94.1	53.2	34.4	29.2	28.3	30.1	30.5
52.5°	2691.6	1043.9	148.1	115.5	75.4	40.5	28.3	25.7	25.7	25.7	25.7
55°	2682.9	948.0	133.3	99.8	55.8	32.2	24.4	22.7	22.2	22.2	22.2
57.5°	2712.6	891.4	106.7	77.6	40.1	26.1	21.3	20.0	19.2	18.7	18.7
60°	2772.3	854.4	76.2	55.8	30.1	21.8	18.3	17.0	15.7	14.8	14.8
62.5°	2851.5	822.1	56.6	41.4	23.1	17.4	15.2	13.9	12.2	11.3	11.3
65°	2912.5	764.6	43.1	30.9	17.4	13.9	11.8	11.3	8.7	7.8	7.4
67.5°	2819.3	638.3	34.9	22.7	13.1	10.9	9.1	8.7	5.2	4.4	4.4
70°	2418.0	444.4	27.9	16.6	9.6	8.7	7.4	5.7	3.9	3.5	3.5
71°	2192.8	371.2	25.3	13.9	8.3	8.3	7.0	4.8	3.5	3.0	3.0
72.5°	1821.6	263.6	21.3	10.9	7.4	8.7	7.4	4.4	3.5	3.0	2.6
75°	1057.4	110.2	14.8	7.4	5.7	10.5	9.6	3.9	2.6	2.2	2.2
77.5°	318.0	40.5	8.3	4.8	4.4	9.1	10.9	3.5	1.3	0.4	0.4
80°	57.9	17.4	5.2	3.0	3.0	5.7	8.3	1.7	0.0	0.0	0.0
82.5°	20.5	8.7	3.0	1.7	1.3	2.6	3.9	0.0	0.0	0.0	0.0
85°	11.8	6.1	1.7	0.9	0.0	0.4	0.9	0.0	0.0	0.0	0.0
87.5°	7.8	1.7	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)