

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: P321747

Luminaire Tested: **GAN-SA3A-830-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321747
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-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 8695 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

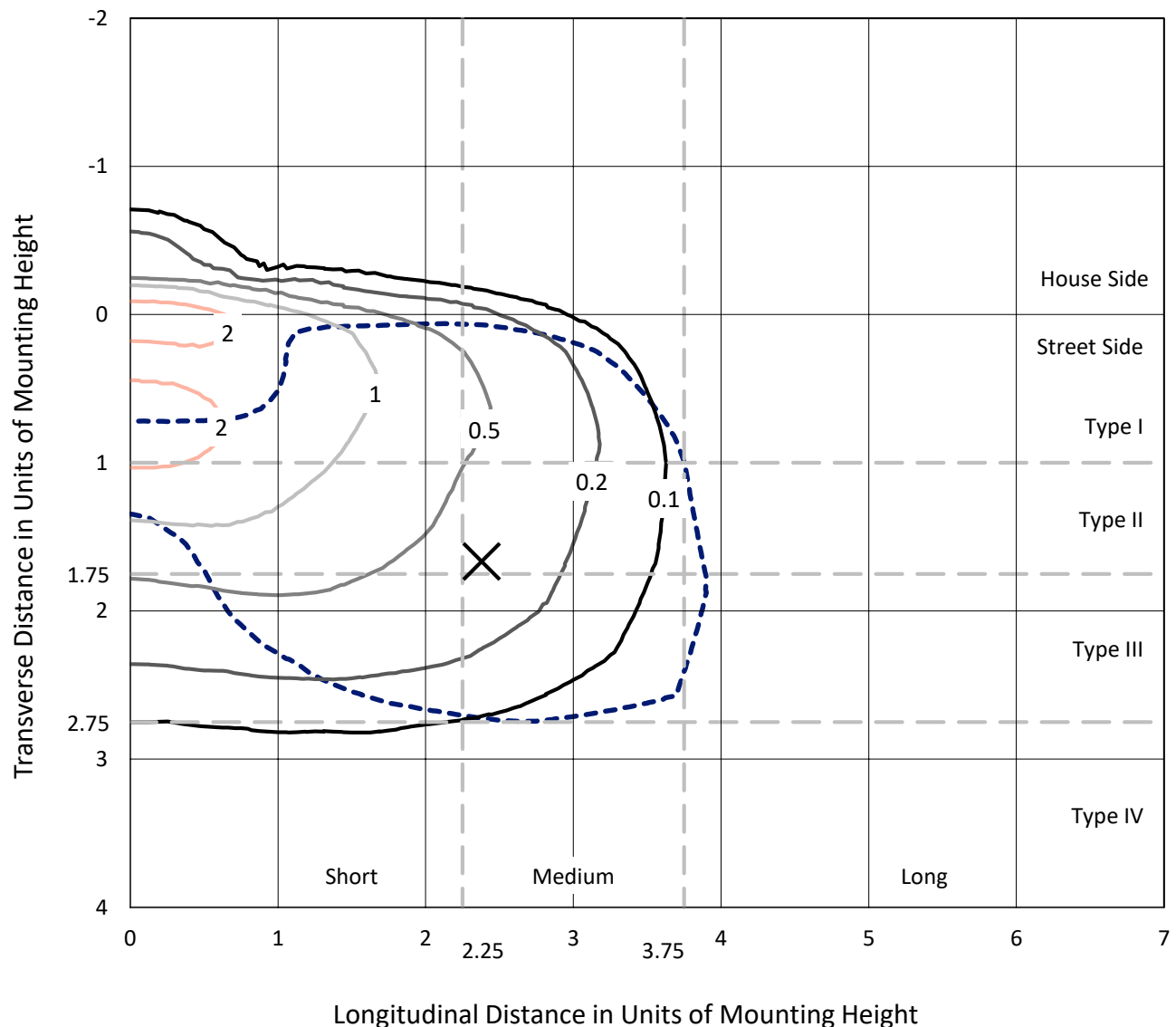
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

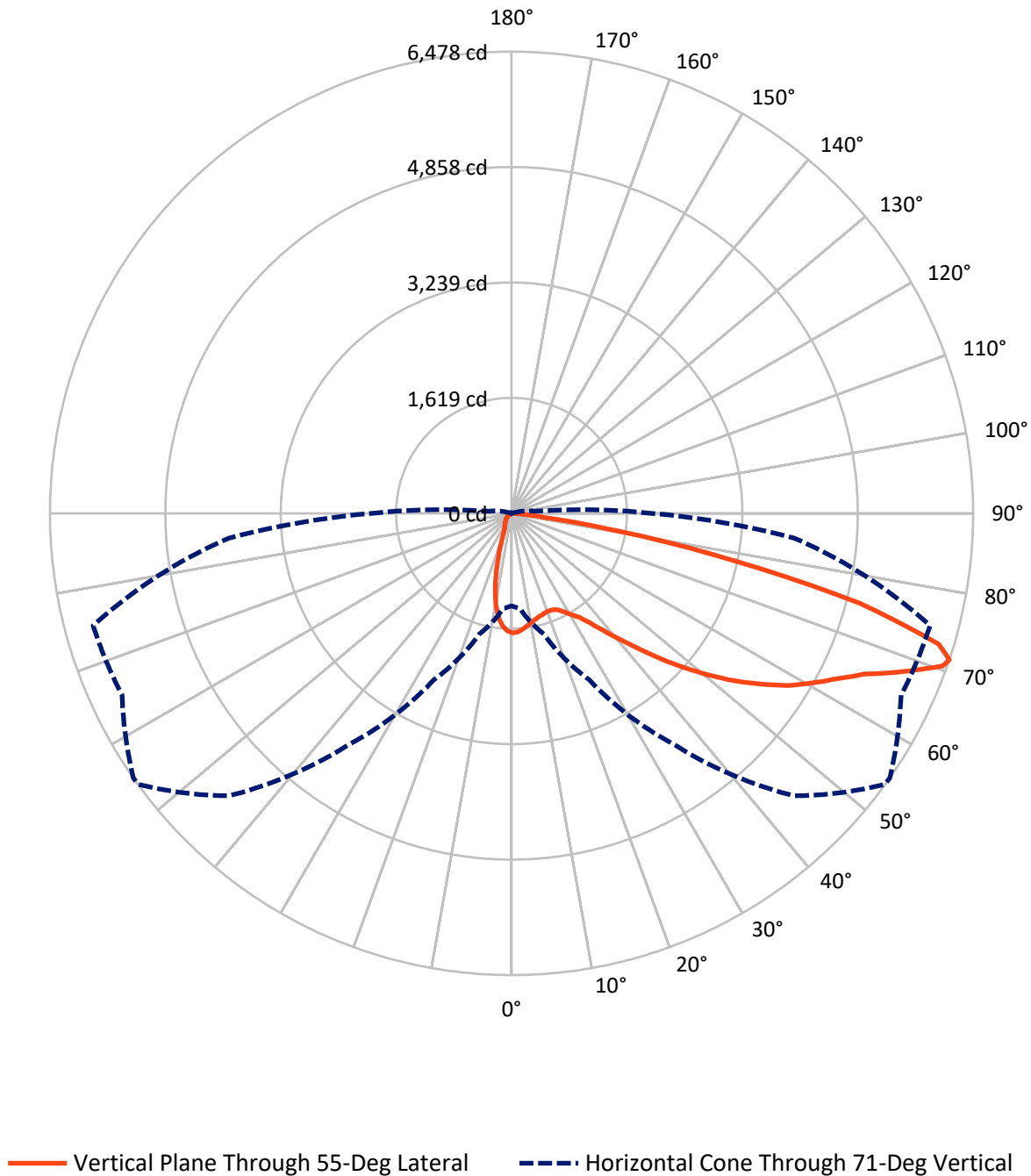
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	688.4	0.0	688.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8006.6	0.0	8006.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	8695.0	0.0	8695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	1.6
10°-20°	322.8	3.7
20°-30°	518.7	6.0
30°-40°	881.3	10.1
40°-50°	1367.9	15.7
50°-60°	1839.1	21.2
60°-70°	2249.9	25.9
70°-80°	1315.4	15.1
80°-90°	56.9	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°	8695.0	100.0
0°-180°	8695.0	100.0

Coefficient of Utilization



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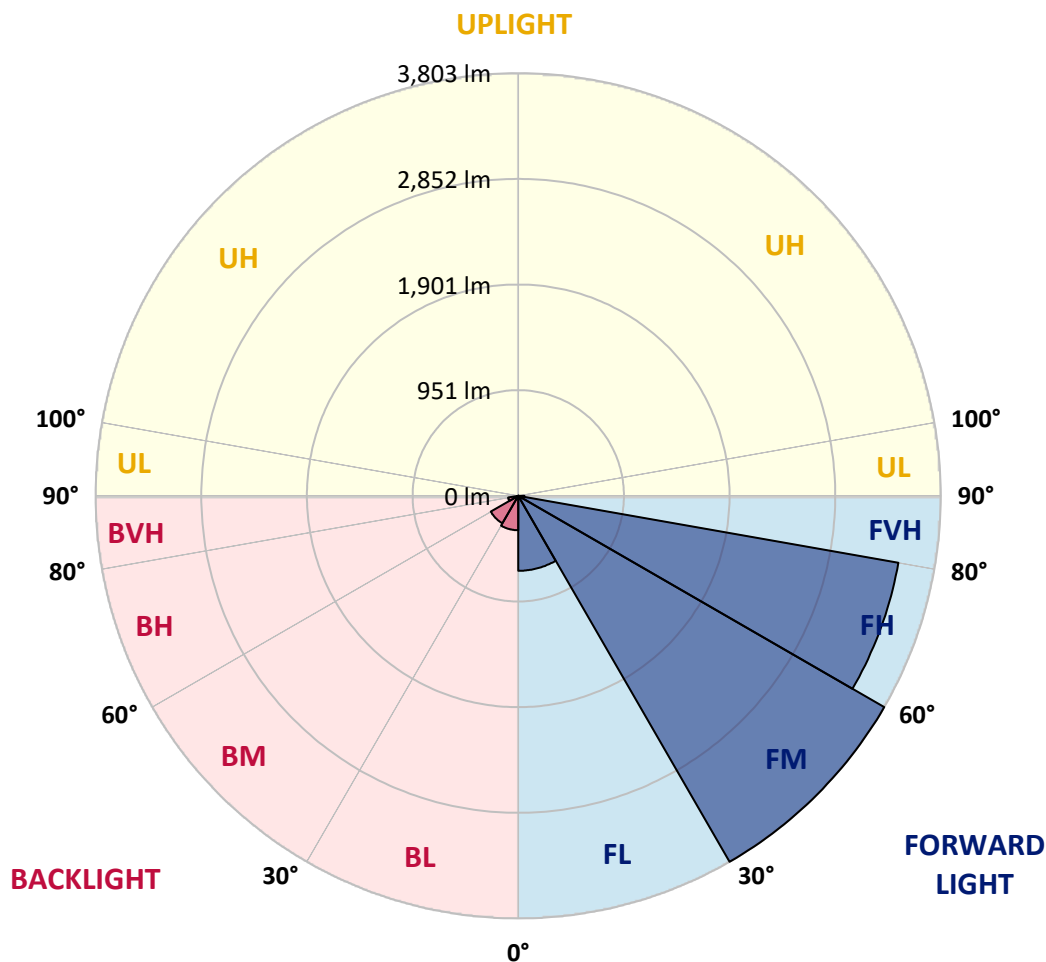
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	674.6	7.8			
FM	(30°-60°)	3802.9	43.7			
FH	(60°-80°)	3473.1	39.9			G2/5000
FVH	(80°-90°)	56.0	0.6			G1/100
BL	(0°-30°)	309.9	3.6	B1/500		
BM	(30°-60°)	285.4	3.3	B1/1000		
BH	(60°-80°)	92.2	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°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9
2.5°	1627.7	1629.6	1636.6	1639.8	1647.2	1659.7	1665.9	1666.3	1676.5	1680.4	1683.5
5°	1512.5	1524.2	1535.9	1548.4	1571.1	1601.1	1630.8	1633.5	1666.3	1690.5	1703.4
7.5°	1413.3	1423.9	1437.9	1457.8	1489.8	1537.1	1586.7	1592.5	1654.6	1709.7	1738.5
10°	1311.4	1320.0	1340.3	1369.6	1413.7	1477.0	1543.7	1553.5	1644.1	1735.4	1786.2
12.5°	1202.5	1207.6	1232.2	1274.3	1339.1	1419.6	1507.4	1520.3	1637.4	1765.1	1842.4
15°	1119.7	1122.1	1145.5	1189.2	1263.4	1368.0	1479.3	1494.9	1639.0	1800.6	1903.7
17.5°	1098.6	1099.8	1112.3	1142.4	1208.0	1322.0	1457.1	1476.2	1643.7	1835.4	1965.4
20°	1184.1	1176.0	1163.1	1158.4	1186.5	1294.2	1443.8	1465.3	1649.9	1866.2	2020.8
22.5°	1418.8	1394.6	1341.1	1269.7	1226.3	1296.2	1447.3	1468.8	1669.8	1904.1	2084.9
25°	1767.0	1733.5	1642.5	1502.0	1366.9	1352.4	1476.6	1498.4	1708.5	1949.4	2146.1
27.5°	2163.3	2130.1	2018.9	1818.2	1587.8	1463.7	1543.7	1564.0	1765.9	1989.6	2193.0
30°	2542.8	2533.4	2402.3	2174.3	1865.8	1644.1	1630.4	1647.6	1808.4	2013.8	2230.1
32.5°	2864.5	2849.7	2744.3	2522.5	2184.0	1860.8	1732.3	1737.4	1840.4	2045.0	2278.5
35°	3162.8	3144.5	3051.9	2842.3	2510.4	2125.5	1889.3	1881.8	1910.3	2107.9	2348.8
37.5°	3423.2	3440.0	3337.3	3137.8	2803.2	2400.7	2100.9	2078.6	2019.7	2210.2	2450.7
40°	3641.1	3641.1	3587.6	3421.3	3119.5	2685.3	2340.2	2310.9	2184.0	2367.9	2579.9
42.5°	3719.5	3736.3	3756.2	3662.2	3402.5	2981.3	2606.8	2576.4	2415.5	2591.6	2743.1
45°	3724.2	3750.8	3852.7	3852.3	3658.3	3275.2	2907.5	2893.0	2712.3	2879.0	2945.3
47.5°	3658.3	3691.4	3859.3	3954.6	3860.9	3548.9	3236.2	3218.2	3060.9	3231.1	3157.0
50°	3556.4	3593.1	3788.3	3994.8	3998.7	3787.1	3582.5	3555.6	3444.7	3633.7	3375.6
52.5°	3374.0	3445.1	3724.6	4004.2	4089.3	3992.8	3912.0	3900.3	3874.2	4021.3	3549.7
55°	2984.0	3062.9	3564.9	4007.3	4173.2	4175.2	4220.9	4224.0	4276.7	4383.7	3679.3
57.5°	2799.7	2844.2	3286.2	4022.1	4297.8	4382.1	4535.5	4559.7	4641.3	4727.6	3827.3
60°	2683.8	2736.5	3148.8	4001.8	4493.4	4653.4	4827.2	4835.4	4922.8	5082.5	4027.6
62.5°	2591.2	2643.2	3062.1	3923.7	4713.2	4979.8	5112.2	5113.0	5178.6	5505.3	4255.2
65°	2362.8	2406.6	2886.8	3835.9	4858.4	5302.7	5443.3	5438.2	5491.7	5951.2	4519.5
67.5°	2032.5	2066.1	2528.8	3502.9	4803.8	5596.3	5943.0	5926.2	5861.4	6336.5	4623.4
70°	1571.4	1583.6	1993.1	2919.2	4291.5	5709.1	6426.0	6417.4	6088.2	6267.4	4242.7
71°	1298.9	1338.8	1756.5	2576.4	3948.3	5604.9	6472.8	6477.9	6031.2	6079.3	3980.7
72.5°	754.3	788.3	1273.2	1978.7	3352.2	5170.0	6230.0	6266.7	5765.0	5529.5	3400.2
75°	161.6	173.0	472.0	957.7	1844.0	3623.5	4917.4	5048.2	4698.7	3761.7	2049.3
77.5°	112.4	121.4	202.2	434.5	609.4	1790.5	3054.7	3202.2	2807.1	1413.7	655.9
80°	89.0	99.2	157.7	214.7	164.8	577.4	1430.9	1521.1	936.2	315.5	110.5
82.5°	49.6	59.0	123.0	116.0	63.2	109.7	400.6	452.9	187.4	63.6	26.2
85°	14.4	17.6	79.3	84.3	26.9	21.1	68.3	84.7	35.5	16.8	11.7
87.5°	0.0	0.0	38.3	32.4	7.8	3.1	6.2	7.0	7.0	7.0	7.8
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°	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9	1676.9
2.5°	1683.5	1686.2	1676.5	1663.6	1649.9	1633.1	1615.6	1601.9	1601.5	1594.9	1588.2
5°	1704.2	1702.6	1675.7	1634.7	1586.3	1535.9	1487.9	1433.6	1415.7	1393.4	1386.0
7.5°	1742.5	1731.5	1674.5	1584.7	1478.5	1373.1	1264.2	1154.5	1107.6	1065.5	1058.0
10°	1790.5	1769.8	1667.1	1509.8	1314.9	1120.5	956.1	807.0	741.4	691.0	688.7
12.5°	1840.4	1808.8	1646.4	1396.5	1100.6	827.3	637.9	491.2	436.5	401.4	404.5
15°	1892.8	1845.5	1601.9	1243.9	856.6	561.4	392.0	305.7	283.8	274.9	277.2
17.5°	1946.3	1870.9	1539.8	1060.0	615.7	362.3	271.3	247.1	247.1	249.1	249.9
20°	1992.7	1884.6	1448.5	853.9	417.4	263.9	237.4	233.9	235.8	238.9	239.3
22.5°	2038.8	1885.3	1329.4	645.0	292.0	231.1	226.1	224.5	225.7	229.2	229.6
25°	2076.3	1876.0	1180.2	458.7	233.1	217.9	215.5	214.7	215.5	219.8	219.8
27.5°	2091.5	1842.0	998.3	322.5	208.9	203.0	202.2	203.0	204.2	207.3	207.7
30°	2093.1	1782.7	800.0	233.5	189.4	183.1	184.7	187.4	186.2	185.5	186.2
32.5°	2097.0	1714.0	606.7	192.1	173.0	163.2	161.2	161.2	156.6	153.8	152.3
35°	2109.8	1633.1	440.0	172.6	156.2	144.8	137.4	128.8	119.9	115.2	114.0
37.5°	2130.1	1548.4	315.1	159.7	141.3	128.4	114.4	99.2	86.3	82.8	82.8
40°	2167.2	1461.0	233.1	149.5	129.6	113.6	92.5	72.6	60.9	59.0	59.0
42.5°	2225.8	1368.8	185.8	140.6	119.5	98.4	70.7	52.7	44.1	42.9	42.6
45°	2286.7	1267.3	162.4	132.0	108.5	80.8	52.3	39.0	34.0	32.8	32.8
47.5°	2347.6	1159.2	151.1	123.8	98.0	62.9	39.0	30.8	28.5	28.5	28.9
50°	2399.1	1046.3	142.9	114.8	84.3	47.6	30.8	26.2	25.4	26.9	27.3
52.5°	2412.0	935.5	132.7	103.5	67.5	36.3	25.4	23.0	23.0	23.0	23.0
55°	2404.2	849.6	119.5	89.4	50.0	28.9	21.9	20.3	19.9	19.9	19.9
57.5°	2430.8	798.8	95.7	69.5	35.9	23.4	19.1	18.0	17.2	16.8	16.8
60°	2484.3	765.6	68.3	50.0	26.9	19.5	16.4	15.2	14.1	13.3	13.3
62.5°	2555.3	736.7	50.8	37.1	20.7	15.6	13.7	12.5	10.9	10.2	10.2
65°	2610.0	685.2	38.7	27.7	15.6	12.5	10.5	10.2	7.8	7.0	6.6
67.5°	2526.4	572.0	31.2	20.3	11.7	9.8	8.2	7.8	4.7	3.9	3.9
70°	2166.8	398.2	25.0	14.8	8.6	7.8	6.6	5.1	3.5	3.1	3.1
71°	1965.0	332.6	22.6	12.5	7.4	7.4	6.2	4.3	3.1	2.7	2.7
72.5°	1632.4	236.2	19.1	9.8	6.6	7.8	6.6	3.9	3.1	2.7	2.3
75°	947.6	98.8	13.3	6.6	5.1	9.4	8.6	3.5	2.3	2.0	2.0
77.5°	285.0	36.3	7.4	4.3	3.9	8.2	9.8	3.1	1.2	0.4	0.4
80°	51.9	15.6	4.7	2.7	2.7	5.1	7.4	1.6	0.0	0.0	0.0
82.5°	18.3	7.8	2.7	1.6	1.2	2.3	3.5	0.0	0.0	0.0	0.0
85°	10.5	5.5	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.0	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)