

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: P323987

Luminaire Tested: **GAN-SA3A-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9177 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

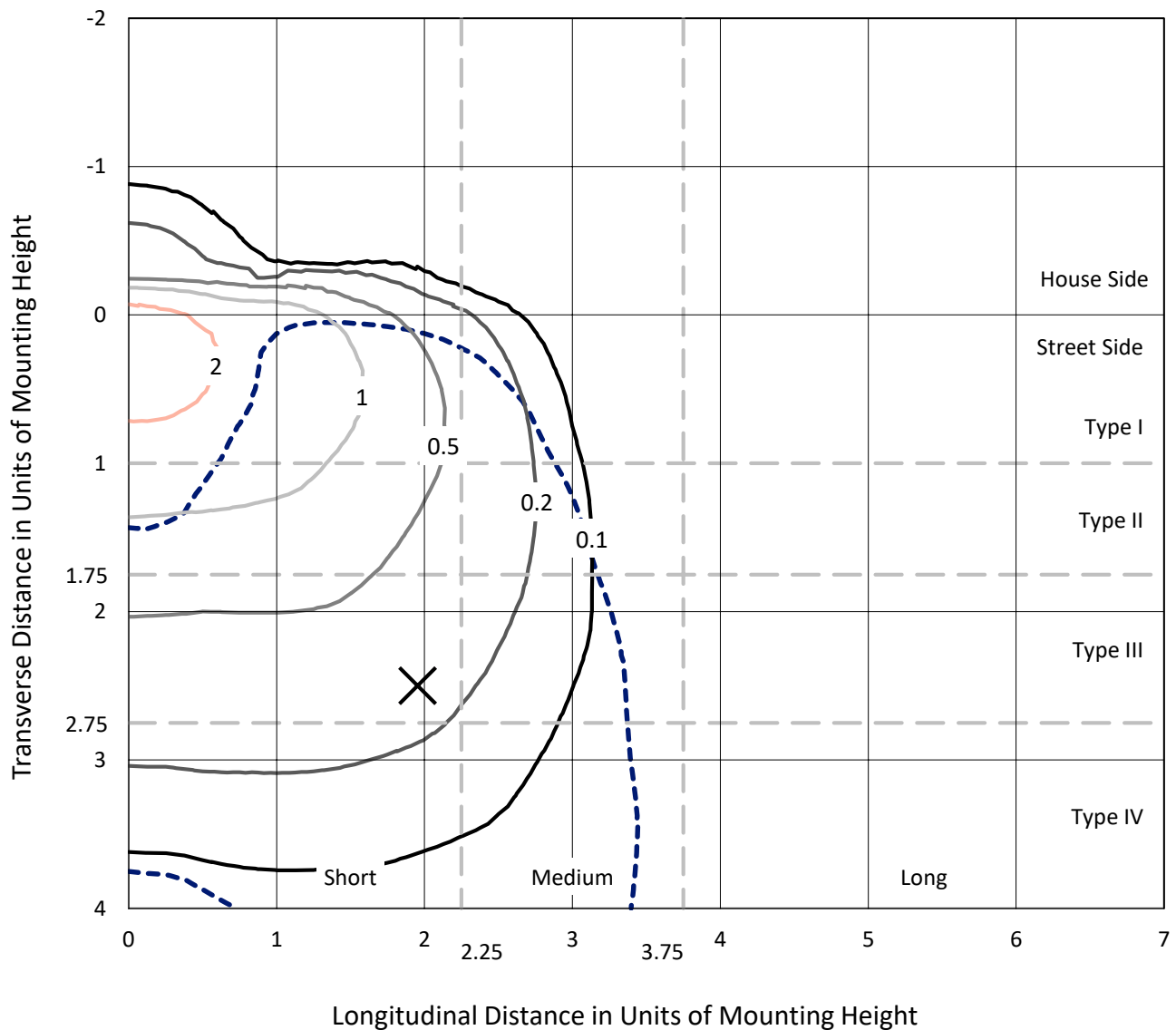
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

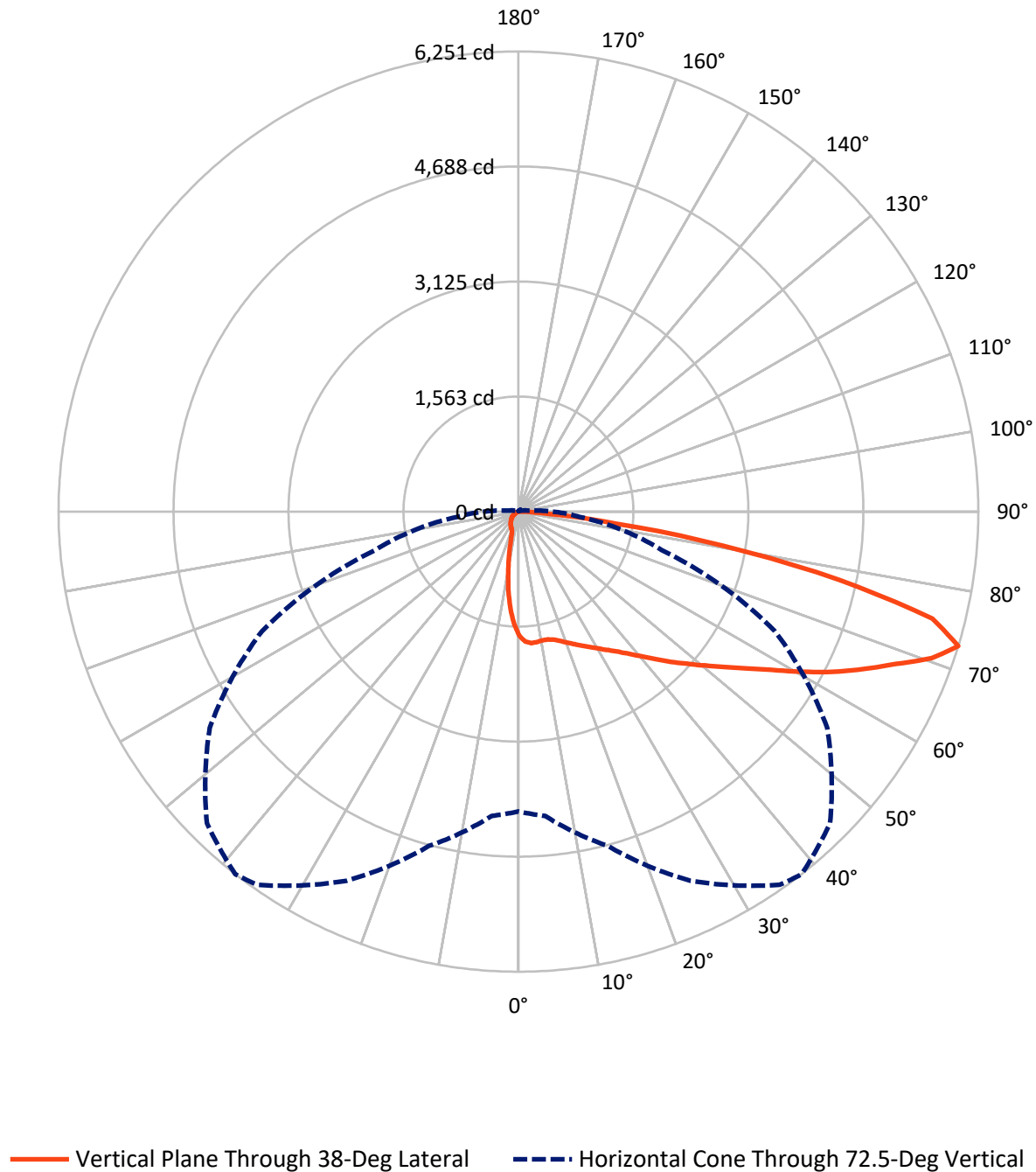
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	772.3	0.0	772.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8404.7	0.0	8404.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	9177.0	0.0	9177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.6
10°-20°	351.7	3.8
20°-30°	559.3	6.1
30°-40°	840.9	9.2
40°-50°	1282.8	14.0
50°-60°	1813.0	19.8
60°-70°	2274.2	24.8
70°-80°	1700.4	18.5
80°-90°	210.8	2.3
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°	9177.0	100.0
0°-180°	9177.0	100.0

Coefficient of Utilization



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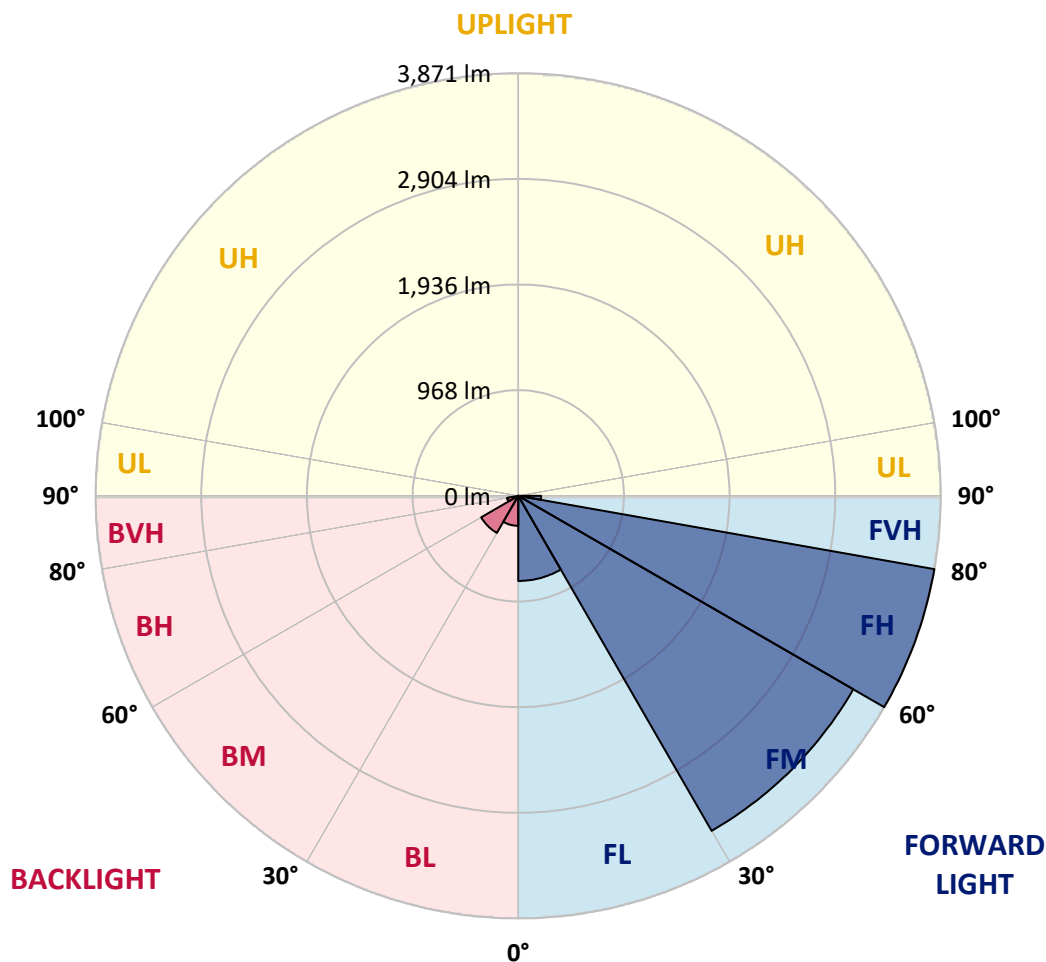
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	779.8	8.5			
FM	(30°-60°)	3544.6	38.6			
FH	(60°-80°)	3871.4	42.2			G2/5000
FVH	(80°-90°)	208.9	2.3			G2/225
BL	(0°-30°)	275.0	3.0	B1/500		
BM	(30°-60°)	392.2	4.3	B1/1000		
BH	(60°-80°)	103.2	1.1	B0/110		G0/110
BVH	(80°-90°)	2.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6
2.5°	1791.3	1791.7	1787.5	1780.6	1771.8	1767.3	1759.7	1747.5	1734.5	1711.2	1686.1
5°	1827.9	1827.9	1822.5	1813.4	1799.3	1795.1	1780.6	1761.2	1734.5	1696.8	1654.5
7.5°	1824.1	1824.8	1817.6	1808.1	1794.0	1790.1	1772.6	1750.9	1717.7	1672.0	1617.9
10°	1804.2	1806.1	1800.4	1795.9	1782.9	1778.7	1762.3	1740.6	1707.4	1658.7	1596.5
12.5°	1784.0	1786.0	1787.9	1792.0	1784.0	1782.5	1769.6	1751.3	1719.6	1668.9	1598.8
15°	1771.1	1774.9	1788.6	1805.0	1806.9	1805.4	1797.0	1779.9	1747.8	1695.2	1615.2
17.5°	1771.1	1777.2	1805.8	1837.0	1848.1	1849.2	1842.0	1818.0	1779.9	1723.4	1630.5
20°	1786.0	1794.3	1838.9	1883.1	1901.4	1901.4	1887.3	1853.8	1809.2	1749.0	1640.7
22.5°	1824.1	1835.1	1891.1	1942.2	1961.6	1957.5	1938.4	1889.6	1839.7	1777.9	1653.7
25°	1899.1	1907.5	1965.8	2017.3	2029.1	2019.6	1995.6	1933.1	1878.6	1817.2	1677.3
27.5°	1995.9	1997.1	2057.3	2100.8	2093.5	2087.0	2056.9	1987.6	1934.6	1873.2	1718.1
30°	2102.3	2102.3	2155.3	2188.4	2166.3	2161.0	2130.9	2053.5	2006.2	1949.5	1776.0
32.5°	2205.2	2209.8	2252.8	2273.8	2249.0	2243.7	2214.3	2137.0	2101.5	2065.7	1866.4
35°	2304.7	2308.1	2348.9	2360.3	2336.7	2338.2	2317.2	2251.7	2238.3	2233.8	2002.4
37.5°	2401.1	2401.8	2443.4	2450.6	2438.8	2451.8	2453.7	2395.7	2420.5	2457.5	2194.1
40°	2489.1	2489.9	2531.0	2549.7	2569.9	2586.7	2601.6	2570.7	2652.6	2738.4	2422.4
42.5°	2559.6	2567.6	2619.9	2655.3	2708.7	2740.7	2781.1	2779.5	2928.9	3057.8	2698.4
45°	2621.8	2635.5	2708.3	2770.4	2861.9	2912.9	2976.2	3025.7	3239.9	3413.4	2977.7
47.5°	2703.7	2716.7	2799.7	2901.5	3023.5	3090.5	3195.3	3302.4	3581.8	3762.5	3250.6
50°	2819.2	2813.5	2895.4	3041.4	3198.0	3286.1	3435.5	3595.9	3921.0	4066.6	3411.1
52.5°	2942.3	2940.0	3000.6	3193.4	3403.8	3506.7	3704.2	3899.3	4245.3	4276.2	3484.6
55°	3094.7	3078.3	3129.4	3366.9	3648.1	3758.7	3991.1	4199.6	4503.8	4394.4	3521.6
57.5°	3254.4	3227.4	3276.1	3560.1	3923.7	4054.4	4309.0	4492.3	4675.6	4475.2	3521.2
60°	3419.5	3387.4	3445.4	3801.7	4265.9	4417.2	4653.5	4690.1	4836.1	4515.9	3495.3
62.5°	3557.4	3538.4	3624.5	4060.1	4648.2	4796.8	4913.8	4870.0	4971.4	4547.6	3434.7
65°	3703.4	3704.5	3843.6	4361.6	5054.5	5154.7	5164.6	5103.3	5084.6	4541.1	3229.7
67.5°	3900.8	3919.1	4151.2	4770.9	5449.7	5527.1	5526.3	5355.9	5167.3	4283.5	2775.0
70°	4109.7	4152.7	4505.7	5239.3	5881.1	5959.6	5919.2	5516.8	4865.4	3463.7	1963.9
72.5°	4074.6	4149.3	4702.7	5534.7	6191.0	6250.8	5988.2	5121.6	3845.5	2013.1	836.2
75°	3143.5	3230.0	4312.0	5242.0	5865.9	5812.2	5145.2	3985.4	2101.5	561.8	188.3
77.5°	1660.6	1706.7	2848.5	3993.4	4573.9	4461.4	3624.5	2210.9	640.7	139.1	84.6
80°	869.7	880.4	1241.3	2265.8	2823.0	2823.8	2148.0	971.1	264.1	71.3	56.8
82.5°	465.7	474.9	655.9	1046.9	1479.1	1340.8	822.5	534.3	153.6	40.4	54.5
85°	112.1	114.0	372.0	478.3	581.6	415.4	244.3	448.6	41.5	23.6	44.2
87.5°	43.1	43.8	138.0	207.0	148.3	96.0	114.3	167.3	5.3	9.1	6.9
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°	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6	1687.6
2.5°	1670.9	1660.9	1636.5	1605.7	1578.2	1558.4	1528.7	1509.3	1496.3	1495.9	1491.0
5°	1628.5	1608.3	1555.8	1493.2	1436.5	1385.4	1325.2	1277.5	1242.1	1236.4	1224.2
7.5°	1583.2	1550.0	1469.2	1371.7	1276.4	1179.6	1067.1	997.4	937.6	909.0	905.9
10°	1555.4	1508.9	1394.2	1253.1	1103.7	946.3	799.2	697.5	623.9	602.9	587.3
12.5°	1549.7	1488.3	1336.2	1141.8	928.4	720.3	557.6	449.3	390.7	372.0	367.0
15°	1555.4	1478.8	1287.4	1031.7	750.8	511.1	374.3	311.4	289.3	283.9	283.6
17.5°	1558.8	1467.3	1232.2	909.4	578.5	365.1	286.6	268.3	264.9	264.5	265.3
20°	1558.4	1449.8	1166.2	772.9	430.3	287.0	259.2	255.4	254.6	255.0	254.6
22.5°	1555.8	1429.2	1093.8	632.3	325.1	256.5	247.3	245.1	244.7	244.7	244.7
25°	1560.7	1412.8	1014.2	497.7	267.9	242.4	236.7	234.8	234.4	234.4	233.6
27.5°	1578.6	1403.7	926.9	383.0	242.0	229.8	225.2	224.9	223.7	223.3	224.1
30°	1607.6	1403.7	831.2	298.0	226.4	216.9	213.4	212.7	212.3	211.9	212.3
32.5°	1658.7	1414.4	726.8	247.7	211.5	202.4	200.1	201.2	200.1	200.1	200.1
35°	1750.9	1446.4	617.4	216.1	195.9	188.3	186.0	187.5	186.8	186.8	186.4
37.5°	1885.4	1505.8	507.3	197.0	182.2	174.2	171.1	173.4	172.6	172.6	172.3
40°	2049.3	1592.3	402.5	182.6	168.8	160.5	157.8	158.9	157.0	157.0	157.8
42.5°	2251.7	1702.1	311.0	168.5	155.5	147.5	146.0	144.8	141.4	139.5	139.9
45°	2476.5	1816.4	242.4	154.7	142.9	136.4	134.2	131.1	125.4	121.6	122.0
47.5°	2677.4	1904.5	197.0	141.4	131.5	126.5	123.1	117.4	109.0	104.4	104.8
50°	2783.0	1917.8	167.7	128.1	120.8	115.9	110.9	102.1	92.2	87.3	86.9
52.5°	2810.0	1855.3	146.0	115.9	110.1	104.4	97.9	86.1	75.1	69.7	69.0
55°	2819.9	1760.0	126.5	104.4	98.7	92.2	83.8	70.5	60.2	54.9	54.5
57.5°	2787.2	1617.9	111.3	94.1	87.3	79.3	69.0	56.4	46.5	42.3	42.3
60°	2714.4	1425.4	99.5	83.1	75.5	66.3	55.6	43.8	34.7	31.3	31.3
62.5°	2569.2	1176.2	88.4	71.7	64.4	54.9	45.0	33.2	24.4	22.5	22.9
65°	2295.1	892.2	77.4	61.4	54.9	45.4	35.1	23.6	16.4	16.4	17.2
67.5°	1871.7	619.7	65.9	52.2	47.3	37.0	26.7	16.4	11.4	13.0	14.5
70°	1239.0	347.6	56.4	43.1	40.4	29.3	19.8	11.1	9.1	12.2	14.9
72.5°	467.6	135.3	47.3	34.7	35.1	22.5	14.1	8.4	8.4	13.3	17.5
75°	130.3	66.3	33.9	25.5	27.4	16.4	10.3	7.2	8.0	15.2	20.6
77.5°	76.6	48.8	22.1	14.9	18.7	11.4	6.9	5.7	6.9	13.0	19.8
80°	61.7	25.9	13.0	7.6	10.3	6.5	4.6	3.4	1.9	5.0	10.3
82.5°	61.7	15.6	6.1	5.3	5.3	3.4	2.3	1.5	0.4	0.0	2.7
85°	41.5	6.5	3.8	3.4	2.7	1.1	0.8	0.4	0.0	0.0	0.0
87.5°	6.9	2.7	1.5	0.8	0.4	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)