

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: P322349

Luminaire Tested: **GAN-SA5A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12478 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

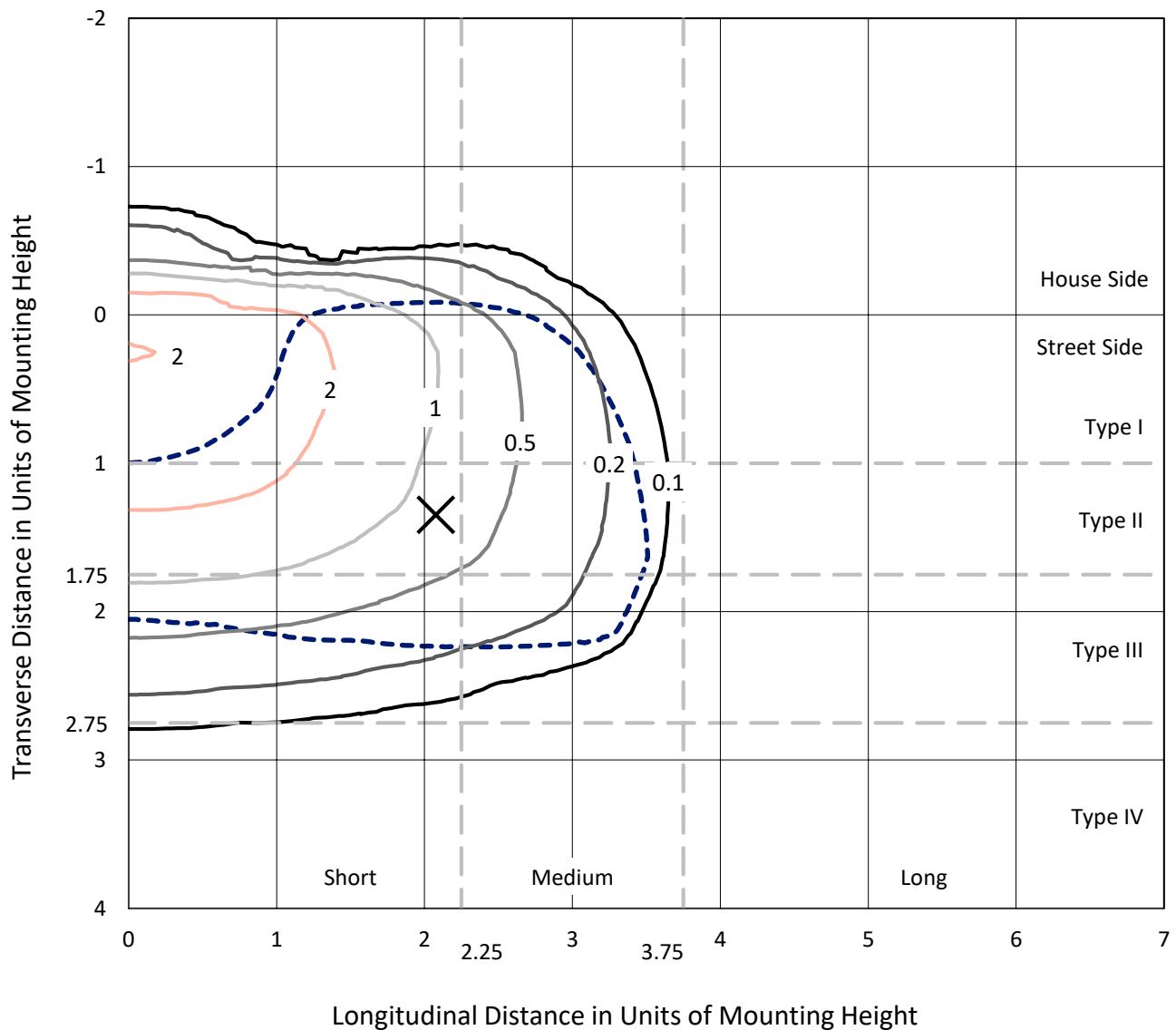


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Iso-Footcandle Lines of Horizontal Illumination

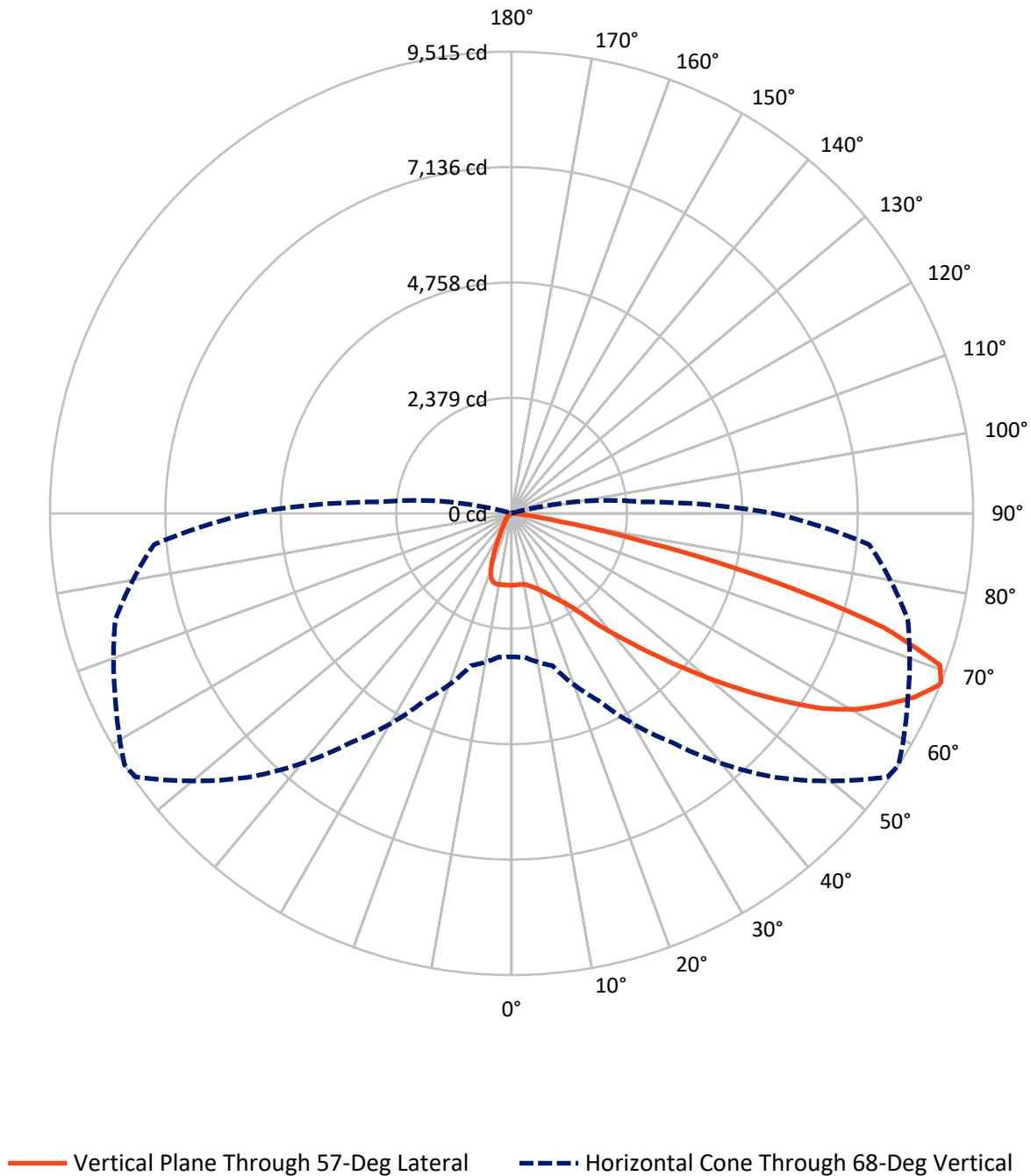
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1368.3	0.0	1368.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	11109.7	0.0	11109.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	12478.0	0.0	12478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	1.1
10°-20°	384.5	3.1
20°-30°	663.3	5.3
30°-40°	1144.9	9.2
40°-50°	1958.3	15.7
50°-60°	3133.1	25.1
60°-70°	3620.0	29.0
70°-80°	1383.3	11.1
80°-90°	51.9	0.4
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°	12478.0	100.0
0°-180°	12478.0	100.0

Coefficient of Utilization



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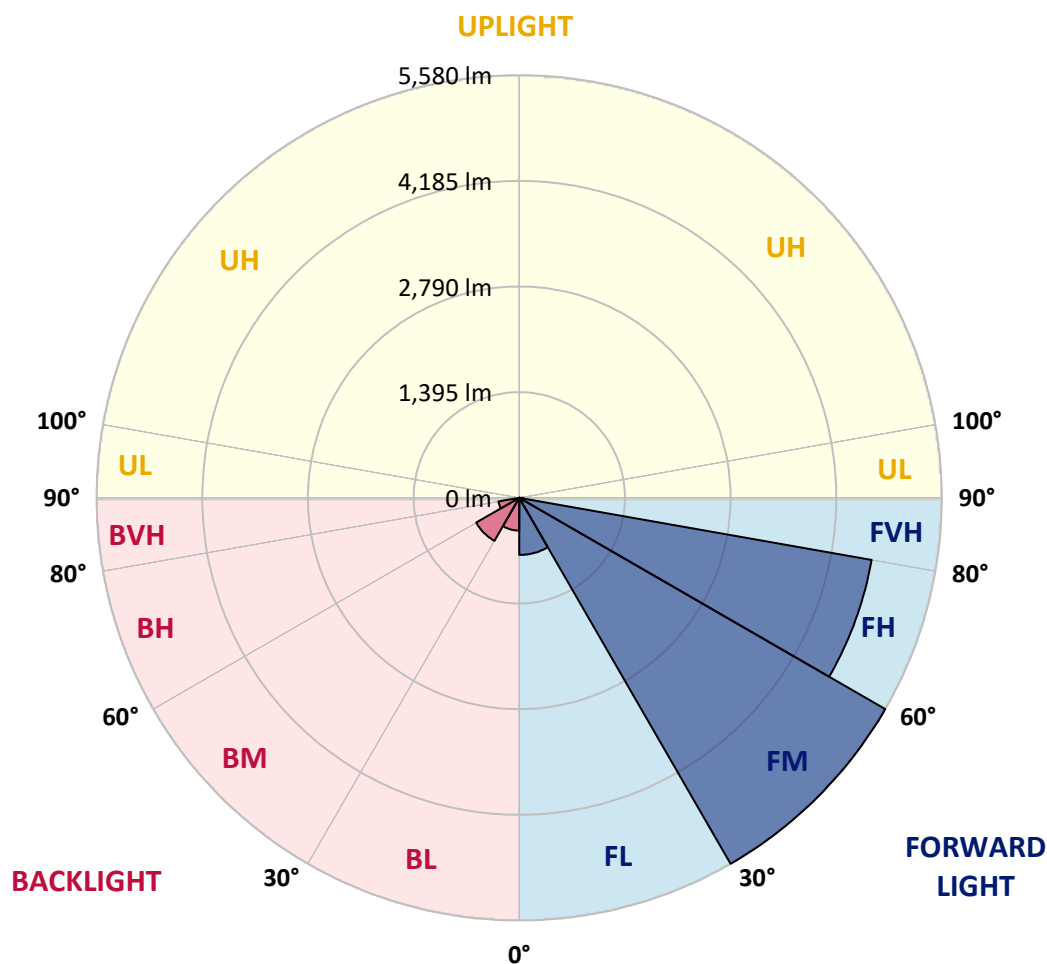
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	754.2	6.0			
FM	(30°-60°)	5580.1	44.7			
FH	(60°-80°)	4724.6	37.9			G2/5000
FVH	(80°-90°)	50.9	0.4			G1/100
BL	(0°-30°)	432.4	3.5	B1/500		
BM	(30°-60°)	656.3	5.3	B1/1000		
BH	(60°-80°)	278.7	2.2	B1/500		G1/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7
2.5°	1447.9	1454.4	1459.1	1462.1	1465.6	1473.3	1475.6	1479.2	1480.9	1480.9	1485.1
5°	1390.7	1397.8	1407.8	1416.0	1432.6	1453.8	1469.1	1475.0	1485.7	1495.1	1500.4
7.5°	1337.6	1345.8	1357.6	1377.1	1405.4	1439.6	1471.5	1479.8	1500.4	1520.5	1530.5
10°	1303.3	1309.8	1325.2	1352.9	1390.1	1437.9	1482.7	1492.7	1528.1	1561.8	1580.7
12.5°	1291.5	1297.4	1313.4	1344.7	1390.7	1446.7	1508.7	1523.4	1575.3	1624.3	1650.9
15°	1308.7	1309.8	1327.0	1356.5	1401.9	1468.6	1551.7	1569.4	1634.9	1698.7	1731.7
17.5°	1374.7	1369.4	1378.3	1391.3	1427.3	1497.5	1597.2	1623.7	1711.1	1786.0	1817.3
20°	1539.9	1539.9	1519.9	1484.5	1485.1	1542.3	1658.5	1688.6	1795.4	1882.2	1910.5
22.5°	1822.6	1817.3	1777.1	1690.4	1610.7	1619.6	1733.5	1772.4	1896.9	1989.5	1999.0
25°	2162.4	2155.9	2094.0	1971.8	1833.8	1744.7	1835.0	1879.8	2017.9	2099.9	2080.4
27.5°	2522.3	2517.0	2455.7	2304.0	2107.5	1944.1	1955.9	1998.4	2141.2	2222.0	2160.1
30°	2871.0	2872.8	2812.0	2656.3	2433.8	2198.4	2109.3	2134.1	2260.9	2343.0	2254.5
32.5°	3202.6	3205.0	3152.5	2978.4	2770.7	2494.0	2321.7	2315.2	2400.2	2481.0	2379.5
35°	3498.2	3504.1	3468.1	3333.0	3112.9	2823.2	2597.3	2581.9	2597.8	2689.3	2571.3
37.5°	3783.2	3786.7	3759.6	3645.7	3461.6	3184.9	2945.4	2923.5	2889.3	2959.5	2824.4
40°	4095.3	4086.5	4055.2	3951.9	3793.8	3584.4	3319.4	3281.7	3222.1	3284.6	3157.2
42.5°	4385.6	4375.6	4380.9	4264.1	4130.7	3995.0	3755.5	3690.6	3655.8	3727.7	3565.5
45°	4748.5	4743.2	4760.9	4659.4	4551.4	4452.9	4255.2	4184.4	4169.1	4253.4	4059.3
47.5°	5106.6	5119.6	5174.5	5131.4	5087.7	5001.0	4784.5	4752.6	4762.0	4864.1	4580.3
50°	5405.2	5420.5	5571.0	5620.5	5683.6	5632.9	5415.8	5396.3	5433.5	5525.5	5140.8
52.5°	5621.1	5652.4	5839.4	6067.7	6297.9	6332.1	6115.5	6097.8	6148.0	6162.1	5573.9
55°	5771.0	5798.7	6010.5	6428.2	6896.7	7044.2	6909.7	6841.3	6831.8	6692.0	6029.4
57.5°	5797.5	5794.6	6099.0	6661.3	7366.4	7746.9	7662.0	7594.7	7401.2	7181.7	6551.6
60°	5647.7	5664.8	6018.2	6742.1	7661.4	8278.5	8285.0	8197.7	7896.2	7657.8	7057.8
62.5°	5186.3	5255.9	5612.8	6530.3	7657.8	8492.7	8741.7	8675.0	8314.5	8047.8	7571.1
65°	4438.1	4462.9	4803.3	5804.6	7140.4	8403.0	9153.0	9128.2	8691.6	8426.6	7834.8
67.5°	3241.0	3187.3	3544.8	4570.9	6045.3	7880.3	9448.0	9479.2	8982.4	8504.5	7554.0
68°	2957.8	2973.7	3252.2	4265.8	5758.6	7695.6	9467.4	9515.2	9011.3	8453.8	7400.6
70°	1763.0	1793.7	2042.1	2937.1	4380.9	6650.7	9257.4	9366.5	8839.1	7930.4	6401.1
72.5°	450.2	486.8	721.6	1314.6	2502.3	4685.9	7814.8	7999.5	7674.4	6433.6	4321.3
75°	185.3	194.7	257.8	433.1	932.2	2111.1	5150.9	5546.2	5320.2	3851.6	1953.0
77.5°	128.0	134.5	165.8	240.1	403.6	715.7	2525.3	2810.8	2532.4	1314.6	426.0
80°	92.0	97.4	118.6	159.9	231.9	255.5	823.1	951.7	755.8	288.5	105.6
82.5°	54.9	59.0	88.5	113.9	141.0	122.1	204.7	232.5	218.9	143.4	47.2
85°	27.1	31.9	59.6	81.4	76.1	51.3	62.5	69.6	86.1	87.3	25.4
87.5°	1.8	3.5	34.8	49.0	21.2	11.8	18.3	22.4	30.7	43.1	10.6
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°	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7	1482.7
2.5°	1486.8	1487.4	1483.3	1481.5	1482.7	1475.6	1472.7	1473.9	1473.9	1475.6	1472.7
5°	1501.6	1501.6	1494.5	1485.1	1479.8	1466.2	1457.3	1455.0	1453.2	1452.0	1449.7
7.5°	1533.5	1529.9	1517.5	1496.9	1479.2	1449.7	1427.3	1415.5	1409.6	1407.2	1405.4
10°	1584.8	1578.3	1557.6	1519.3	1478.6	1426.1	1377.1	1342.3	1313.4	1301.6	1294.5
12.5°	1653.8	1644.4	1609.6	1545.8	1474.5	1377.7	1271.5	1169.4	1074.4	1035.5	1016.0
15°	1733.5	1719.9	1665.0	1568.3	1450.3	1268.5	1037.8	859.1	727.5	677.9	656.7
17.5°	1814.3	1796.6	1713.4	1582.4	1377.7	1042.6	728.1	549.9	462.0	438.4	430.1
20°	1895.7	1869.8	1755.3	1571.8	1213.7	751.7	480.3	401.8	376.4	369.4	367.0
22.5°	1973.0	1932.9	1793.1	1530.5	961.1	504.5	380.0	355.2	346.9	342.8	341.6
25°	2040.3	1984.2	1826.1	1403.1	680.3	381.2	342.2	334.0	323.3	315.7	316.2
27.5°	2103.4	2035.6	1846.2	1193.0	453.7	325.7	316.8	305.6	286.2	274.9	274.9
30°	2179.5	2104.0	1860.9	918.1	334.0	287.9	280.8	263.7	237.2	222.4	222.4
32.5°	2294.0	2207.8	1851.5	644.3	276.7	253.1	236.6	213.0	184.1	169.9	169.3
35°	2469.2	2368.3	1784.2	422.5	244.3	220.1	193.5	164.6	139.2	127.4	126.9
37.5°	2705.2	2583.1	1633.2	302.1	218.9	189.4	157.5	125.7	106.8	99.1	98.5
40°	3011.5	2832.7	1417.2	244.9	195.3	159.9	121.5	97.4	84.4	78.5	79.1
42.5°	3379.0	3100.0	1158.2	211.2	172.3	131.6	95.0	76.7	68.4	64.3	63.1
45°	3787.3	3363.7	886.8	188.2	149.3	106.2	74.3	60.8	54.3	51.9	51.9
47.5°	4236.3	3620.4	649.0	168.2	124.5	82.0	59.6	49.6	44.3	42.5	41.9
50°	4644.0	3798.5	467.9	146.9	102.1	64.9	48.4	41.3	37.8	35.4	35.4
52.5°	4983.9	3854.6	344.6	123.9	82.6	51.9	40.1	35.4	31.9	30.1	30.1
55°	5283.0	3831.6	256.1	102.1	66.7	42.5	34.2	30.1	27.1	25.4	25.4
57.5°	5569.8	3757.2	191.2	83.2	53.7	34.2	28.9	25.4	22.4	21.2	21.2
60°	5804.0	3633.3	142.2	67.3	43.1	27.7	24.2	20.7	18.3	16.5	16.5
62.5°	5994.0	3496.4	104.4	55.5	34.2	21.8	18.9	17.1	13.6	11.8	11.8
65°	5995.2	3269.3	78.5	46.0	26.6	17.1	14.2	13.6	8.9	7.1	6.5
67.5°	5561.5	2818.5	60.2	39.5	20.7	13.0	10.6	11.2	4.7	3.0	2.4
68°	5404.0	2704.1	56.6	38.9	19.5	12.4	10.0	11.2	4.1	2.4	1.8
70°	4556.1	2151.2	45.4	37.8	17.1	9.4	8.3	11.2	3.5	1.8	1.2
72.5°	2914.1	1248.5	33.6	30.1	13.0	7.1	5.3	10.0	3.5	1.2	0.6
75°	1240.2	387.1	23.0	21.2	7.7	5.3	3.5	6.5	2.4	0.6	0.0
77.5°	261.4	87.3	13.6	13.0	5.3	3.5	2.4	1.8	0.6	0.0	0.0
80°	67.3	25.4	7.1	6.5	3.0	1.8	1.2	0.0	0.0	0.0	0.0
82.5°	21.2	10.0	4.1	3.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.8	0.6	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)