

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: P322308

Luminaire Tested: **GAN-SA4A-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322308
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-SA4A-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 13699 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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



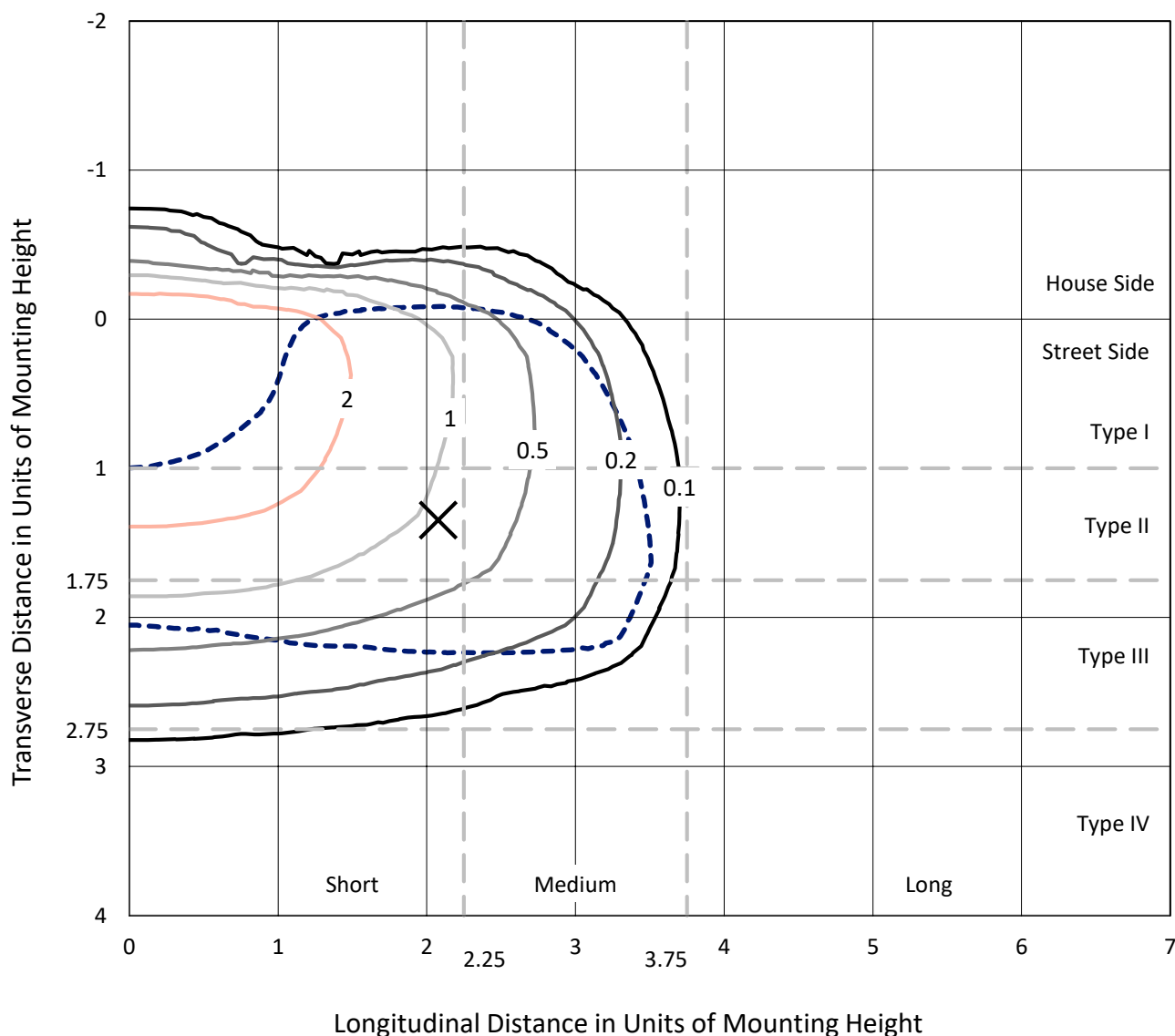
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

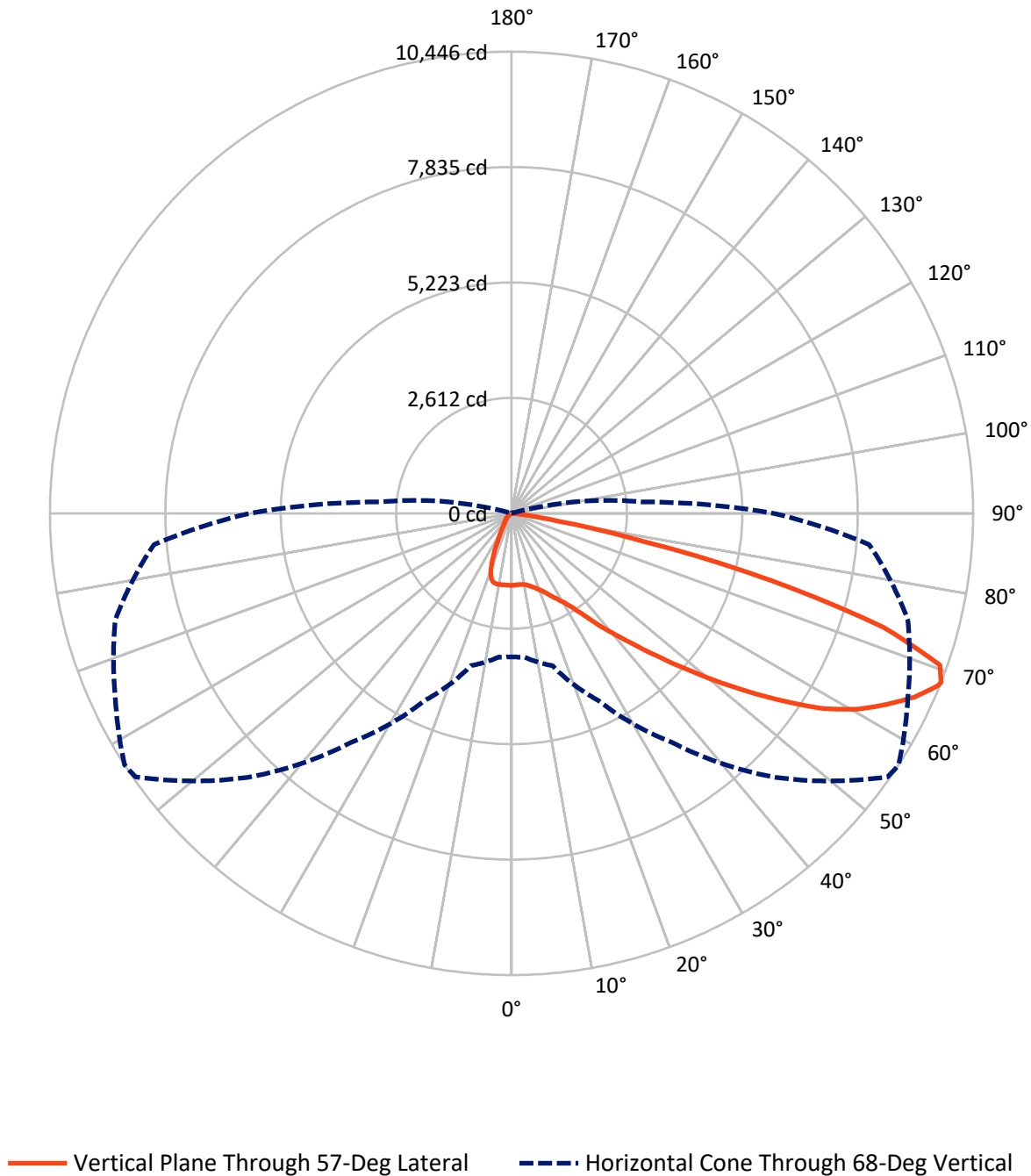


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

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	1502.2	0.0	1502.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	12196.8	0.0	12196.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	13699.0	0.0	13699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	1.1
10°-20°	422.1	3.1
20°-30°	728.2	5.3
30°-40°	1256.9	9.2
40°-50°	2149.9	15.7
50°-60°	3439.7	25.1
60°-70°	3974.2	29.0
70°-80°	1518.6	11.1
80°-90°	56.9	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°	13699.0	100.0
0°-180°	13699.0	100.0

Coefficient of Utilization



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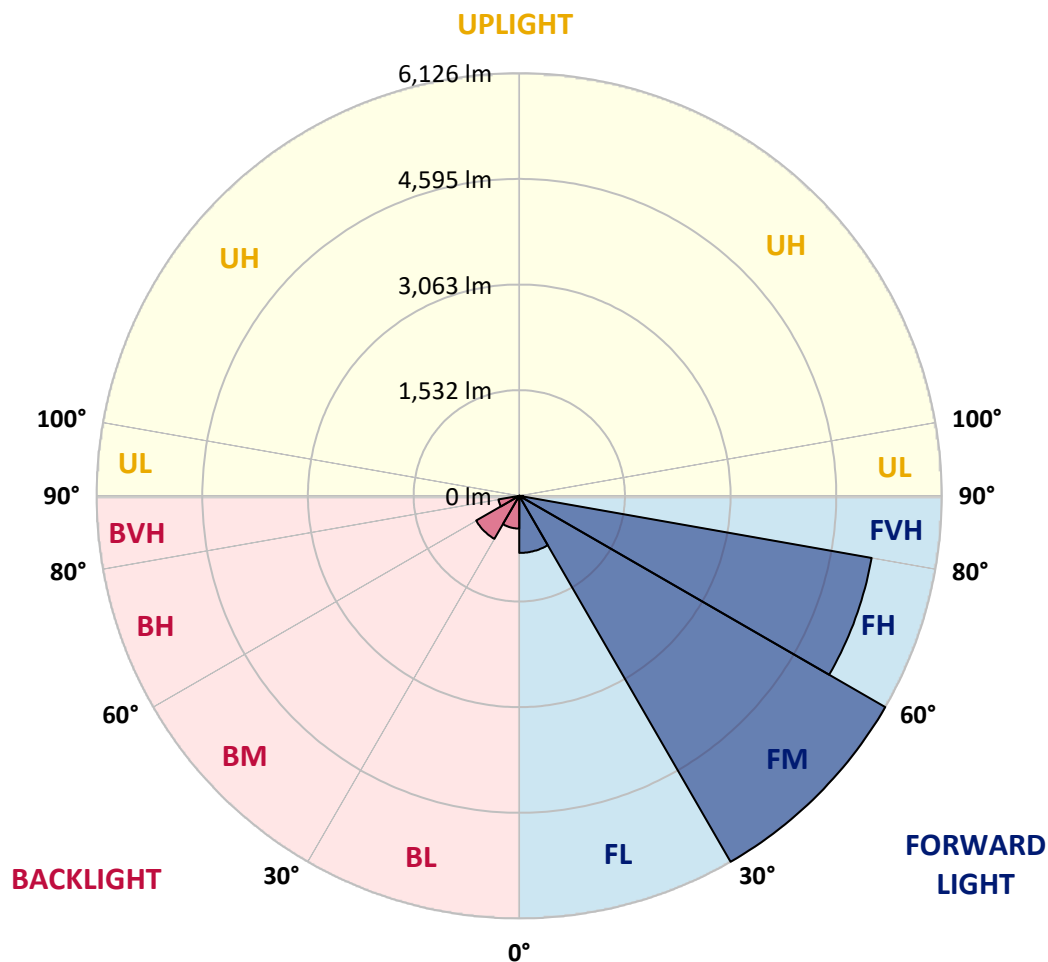
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.0	6.0			
FM	(30°-60°)	6126.1	44.7			
FH	(60°-80°)	5186.9	37.9			G3/7500
FVH	(80°-90°)	55.9	0.4			G1/100
BL	(0°-30°)	474.7	3.5	B1/500		
BM	(30°-60°)	720.5	5.3	B1/1000		
BH	(60°-80°)	305.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1589.6	1596.7	1601.9	1605.1	1609.0	1617.4	1620.0	1623.9	1625.9	1625.9	1630.4
5°	1526.8	1534.5	1545.5	1554.6	1572.7	1596.1	1612.9	1619.4	1631.0	1641.4	1647.2
7.5°	1468.5	1477.5	1490.5	1511.9	1542.9	1580.5	1615.5	1624.6	1647.2	1669.3	1680.3
10°	1430.9	1438.0	1454.9	1485.3	1526.1	1578.6	1627.8	1638.8	1677.7	1714.6	1735.3
12.5°	1417.9	1424.4	1441.9	1476.2	1526.8	1588.3	1656.3	1672.5	1729.5	1783.3	1812.4
15°	1436.7	1438.0	1456.8	1489.2	1539.1	1612.3	1703.6	1723.0	1794.9	1864.9	1901.2
17.5°	1509.3	1503.4	1513.2	1527.4	1566.9	1644.0	1753.5	1782.6	1878.5	1960.7	1995.1
20°	1690.6	1690.6	1668.6	1629.7	1630.4	1693.2	1820.8	1853.9	1971.1	2066.3	2097.4
22.5°	2000.9	1995.1	1951.0	1855.8	1768.4	1778.1	1903.1	1945.8	2082.5	2184.2	2194.6
25°	2374.0	2366.9	2298.9	2164.8	2013.2	1915.4	2014.5	2063.7	2215.3	2305.4	2284.0
27.5°	2769.1	2763.3	2695.9	2529.5	2313.8	2134.3	2147.3	2193.9	2350.7	2439.4	2371.4
30°	3152.0	3153.9	3087.2	2916.2	2672.0	2413.5	2315.7	2342.9	2482.2	2572.2	2475.1
32.5°	3516.0	3518.6	3460.9	3269.9	3041.8	2738.1	2548.9	2541.8	2635.1	2723.8	2612.4
35°	3840.5	3847.0	3807.5	3659.2	3417.5	3099.5	2851.4	2834.6	2852.1	2952.5	2822.9
37.5°	4153.4	4157.3	4127.5	4002.5	3800.4	3496.6	3233.6	3209.6	3172.0	3249.1	3100.8
40°	4496.1	4486.3	4452.0	4338.6	4165.0	3935.1	3644.3	3602.8	3537.4	3606.0	3466.1
42.5°	4814.7	4803.7	4809.6	4681.3	4534.9	4385.9	4122.9	4051.7	4013.5	4092.5	3914.4
45°	5213.1	5207.3	5226.7	5115.3	4996.8	4888.6	4671.6	4593.9	4577.0	4669.6	4456.5
47.5°	5606.3	5620.5	5680.8	5633.5	5585.6	5490.4	5252.6	5217.6	5228.0	5340.1	5028.5
50°	5934.1	5950.9	6116.1	6170.5	6239.8	6184.1	5945.7	5924.3	5965.2	6066.2	5643.9
52.5°	6171.1	6205.5	6410.8	6661.5	6914.1	6951.7	6714.0	6694.5	6749.6	6765.1	6119.3
55°	6335.7	6366.1	6598.7	7057.3	7571.6	7733.5	7585.8	7510.7	7500.3	7346.8	6619.4
57.5°	6364.8	6361.6	6695.8	7313.1	8087.2	8505.0	8411.7	8337.9	8125.4	7884.4	7192.6
60°	6200.3	6219.1	6607.1	7401.9	8411.1	9088.6	9095.7	8999.9	8668.9	8407.2	7748.4
62.5°	5693.7	5770.2	6162.1	7169.3	8407.2	9323.8	9597.1	9523.9	9128.1	8835.3	8312.0
65°	4872.4	4899.6	5273.4	6372.6	7839.1	9225.3	10048.6	10021.4	9542.0	9251.2	8601.5
67.5°	3558.1	3499.2	3891.7	5018.1	6636.9	8651.4	10372.5	10406.8	9861.4	9336.7	8293.2
68°	3247.2	3264.7	3570.4	4683.3	6322.1	8448.6	10393.8	10446.3	9893.1	9281.0	8124.8
70°	1935.5	1969.2	2241.9	3224.5	4809.6	7301.5	10163.2	10283.1	9704.0	8706.4	7027.5
72.5°	494.2	534.4	792.2	1443.2	2747.1	5144.5	8579.5	8782.2	8425.3	7063.1	4744.1
75°	203.4	213.8	283.1	475.5	1023.4	2317.7	5654.9	6088.9	5840.8	4228.5	2144.1
77.5°	140.6	147.7	182.0	263.6	443.1	785.7	2772.4	3085.9	2780.2	1443.2	467.7
80°	101.0	106.9	130.2	175.5	254.6	280.5	903.6	1044.8	829.8	316.8	115.9
82.5°	60.2	64.8	97.2	125.0	154.8	134.1	224.8	255.2	240.3	157.4	51.8
85°	29.8	35.0	65.4	89.4	83.6	56.4	68.7	76.4	94.6	95.9	27.9
87.5°	1.9	3.9	38.2	53.8	23.3	13.0	20.1	24.6	33.7	47.3	11.7
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°	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8	1627.8
2.5°	1632.3	1633.0	1628.5	1626.5	1627.8	1620.0	1616.8	1618.1	1618.1	1620.0	1616.8
5°	1648.5	1648.5	1640.8	1630.4	1624.6	1609.7	1599.9	1597.4	1595.4	1594.1	1591.5
7.5°	1683.5	1679.6	1666.0	1643.3	1623.9	1591.5	1566.9	1554.0	1547.5	1544.9	1542.9
10°	1739.9	1732.7	1710.1	1668.0	1623.3	1565.6	1511.9	1473.6	1441.9	1428.9	1421.2
12.5°	1815.7	1805.3	1767.1	1697.1	1618.7	1512.5	1395.9	1283.8	1179.6	1136.8	1115.4
15°	1903.1	1888.2	1828.0	1721.7	1592.2	1392.7	1139.4	943.1	798.7	744.3	720.9
17.5°	1991.8	1972.4	1881.1	1737.3	1512.5	1144.6	799.3	603.7	507.2	481.3	472.2
20°	2081.2	2052.7	1927.1	1725.6	1332.4	825.2	527.3	441.1	413.3	405.5	402.9
22.5°	2166.1	2122.0	1968.5	1680.3	1055.2	553.8	417.2	389.9	380.9	376.3	375.0
25°	2239.9	2178.4	2004.8	1540.4	746.9	418.4	375.7	366.6	355.0	346.5	347.2
27.5°	2309.2	2234.7	2026.8	1309.8	498.1	357.6	347.8	335.5	314.2	301.9	301.9
30°	2392.8	2309.9	2043.0	1007.9	366.6	316.1	308.3	289.5	260.4	244.2	244.2
32.5°	2518.5	2423.9	2032.6	707.3	303.8	277.9	259.7	233.8	202.1	186.6	185.9
35°	2710.8	2600.1	1958.8	463.8	268.2	241.6	212.5	180.7	152.9	139.9	139.3
37.5°	2969.9	2835.9	1793.0	331.6	240.3	207.9	172.9	138.0	117.2	108.8	108.2
40°	3306.1	3109.9	1555.9	268.8	214.4	175.5	133.4	106.9	92.6	86.2	86.8
42.5°	3709.7	3403.3	1271.5	231.9	189.1	144.4	104.3	84.2	75.1	70.6	69.3
45°	4157.9	3692.8	973.6	206.6	163.9	116.6	81.6	66.7	59.6	57.0	57.0
47.5°	4650.9	3974.6	712.5	184.6	136.7	90.0	65.4	54.4	48.6	46.6	46.0
50°	5098.5	4170.2	513.7	161.3	112.1	71.3	53.1	45.3	41.5	38.9	38.9
52.5°	5471.6	4231.8	378.3	136.0	90.7	57.0	44.0	38.9	35.0	33.0	33.0
55°	5800.0	4206.5	281.1	112.1	73.2	46.6	37.6	33.0	29.8	27.9	27.9
57.5°	6114.8	4124.9	209.9	91.3	58.9	37.6	31.7	27.9	24.6	23.3	23.3
60°	6371.9	3988.9	156.1	73.8	47.3	30.4	26.6	22.7	20.1	18.1	18.1
62.5°	6580.5	3838.6	114.7	60.9	37.6	24.0	20.7	18.8	14.9	13.0	13.0
65°	6581.8	3589.2	86.2	50.5	29.1	18.8	15.5	14.9	9.7	7.8	7.1
67.5°	6105.7	3094.3	66.1	43.4	22.7	14.3	11.7	12.3	5.2	3.2	2.6
68°	5932.8	2968.7	62.2	42.8	21.4	13.6	11.0	12.3	4.5	2.6	1.9
70°	5001.9	2361.7	49.9	41.5	18.8	10.4	9.1	12.3	3.9	1.9	1.3
72.5°	3199.3	1370.6	36.9	33.0	14.3	7.8	5.8	11.0	3.9	1.3	0.6
75°	1361.6	424.9	25.3	23.3	8.4	5.8	3.9	7.1	2.6	0.6	0.0
77.5°	287.0	95.9	14.9	14.3	5.8	3.9	2.6	1.9	0.6	0.0	0.0
80°	73.8	27.9	7.8	7.1	3.2	1.9	1.3	0.0	0.0	0.0	0.0
82.5°	23.3	11.0	4.5	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	6.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	1.9	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)