

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: P399529

Luminaire Tested: **ARCH-L-PA3-150-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-150-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12782 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

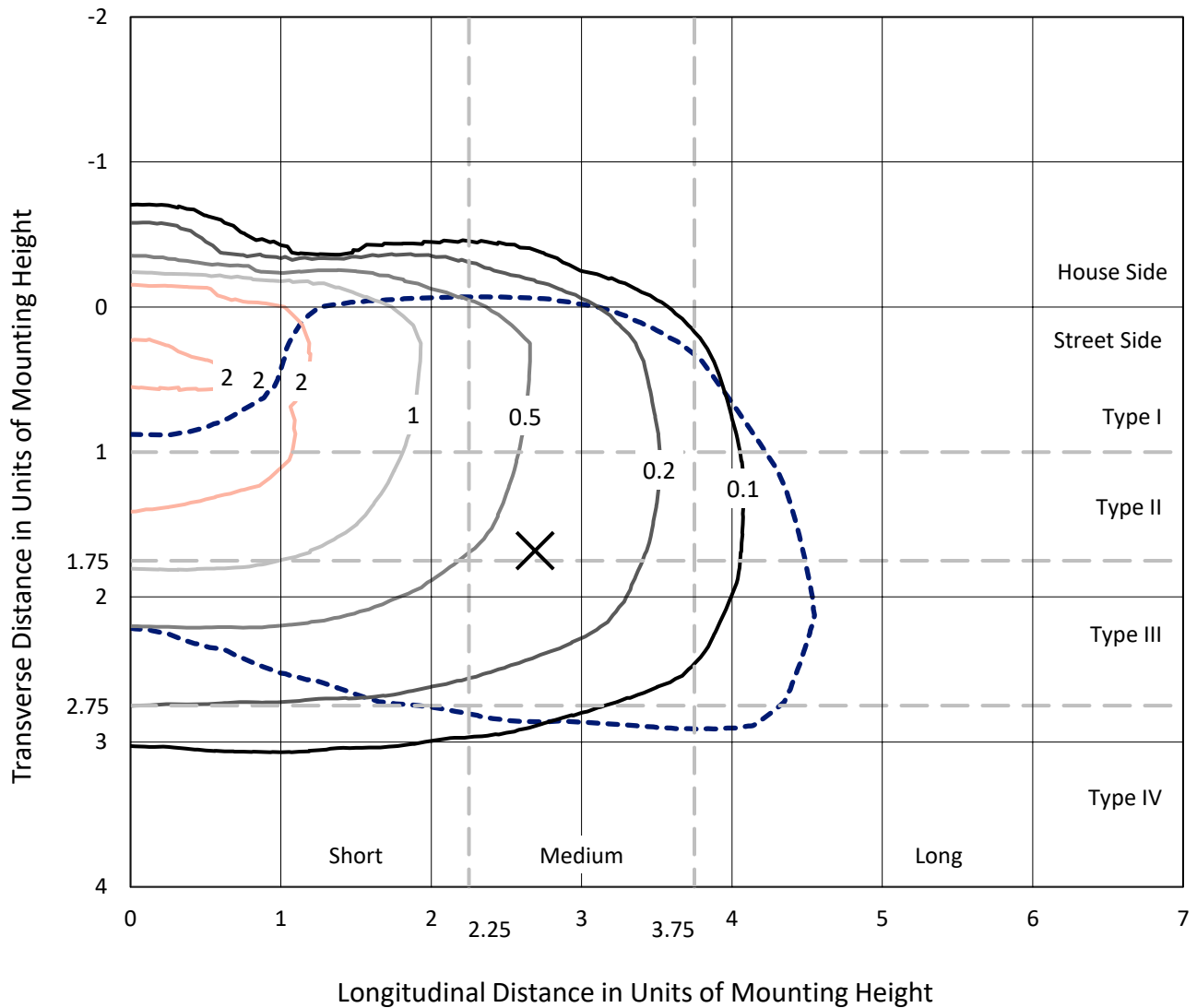
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

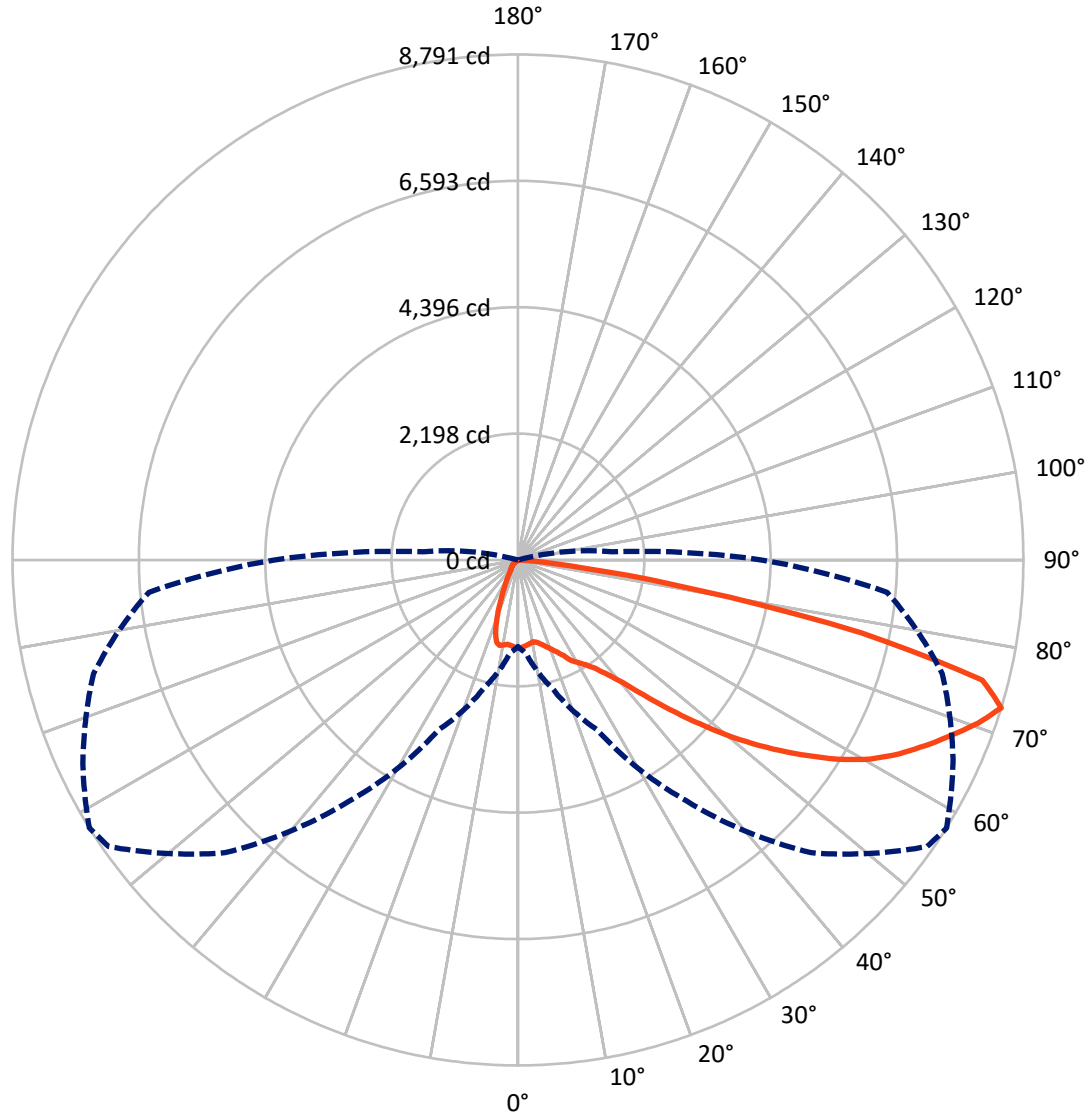
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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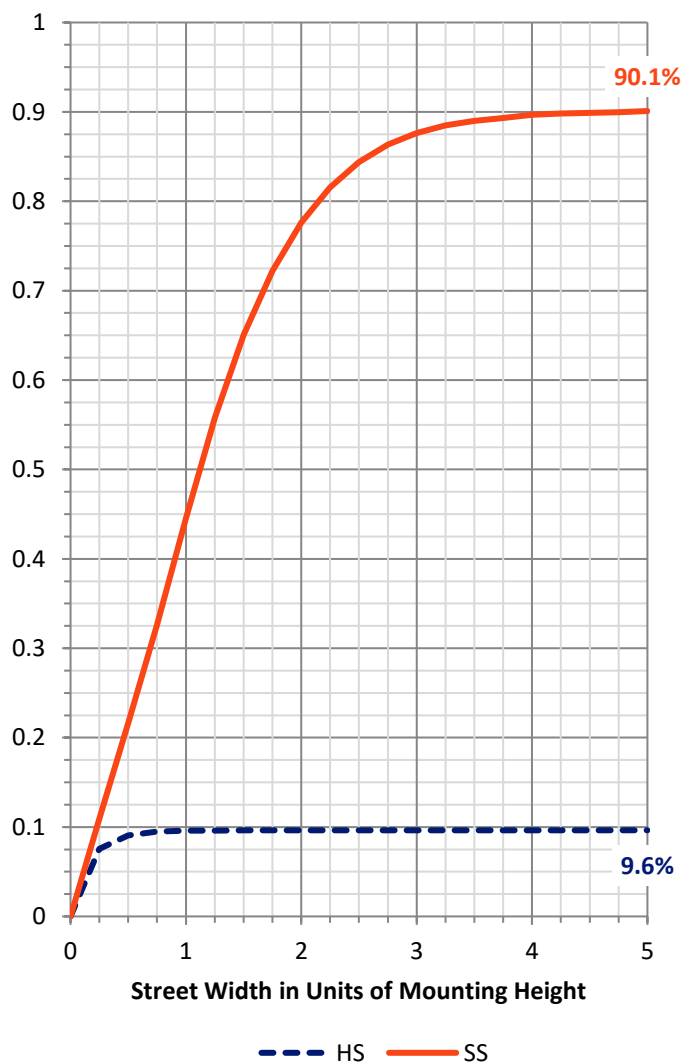
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1243.0	0.0	1243.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	11539.0	0.0	11539.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	12782.0	0.0	12782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.1
10°-20°	366.6	2.9
20°-30°	575.9	4.5
30°-40°	993.3	7.8
40°-50°	1889.7	14.8
50°-60°	2992.7	23.4
60°-70°	3492.2	27.3
70°-80°	2187.2	17.1
80°-90°	143.6	1.1
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°	12782.0	100.0
0°-180°	12782.0	100.0

Coefficient of Utilization



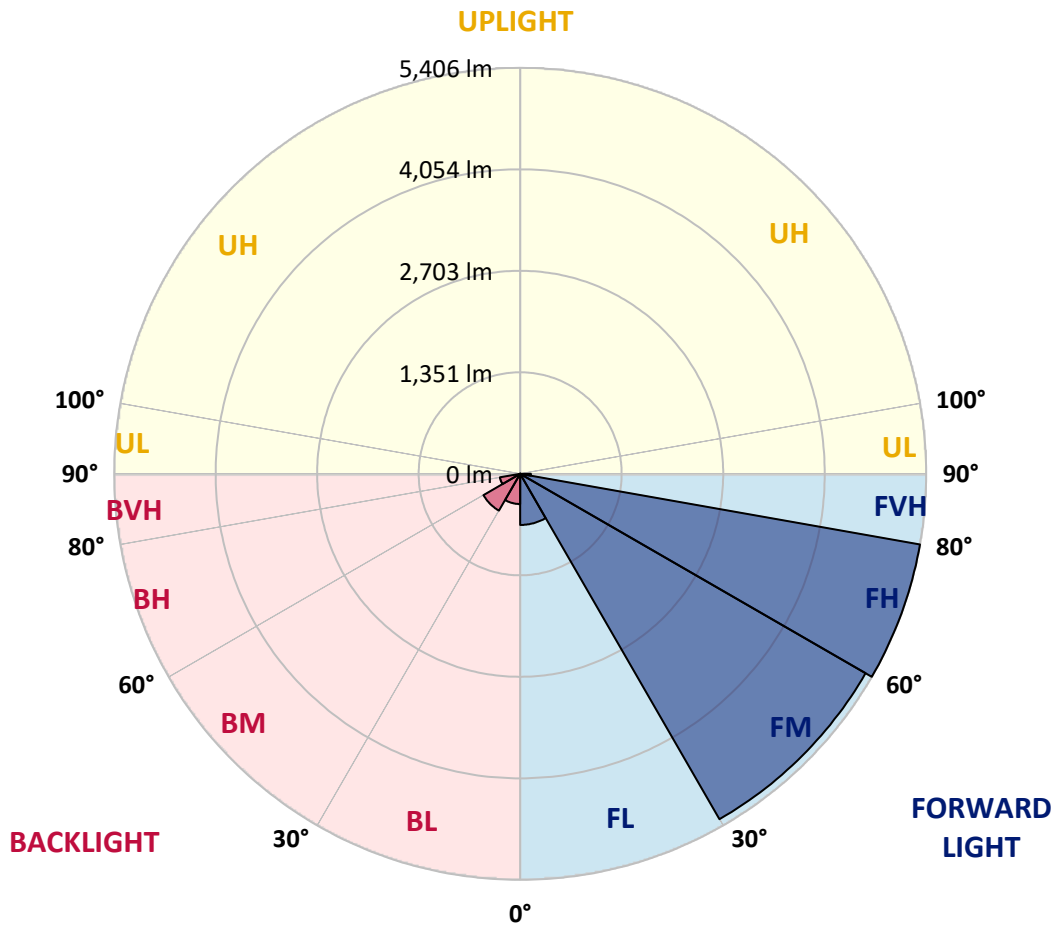
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.8	5.3			
FM (30°-60°)	5310.2	41.5			
FH (60°-80°)	5405.9	42.3			G3/7500
FVH (80°-90°)	142.2	1.1			G2/225
BL (0°-30°)	402.5	3.1	B1/500		
BM (30°-60°)	565.6	4.4	B1/1000		
BH (60°-80°)	273.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1526.9	1520.0	1517.8	1515.5	1517.8	1520.0	1513.2	1520.0	1515.5	1517.8	1522.3
5°	1472.0	1465.2	1462.9	1465.2	1472.0	1483.5	1488.0	1494.9	1494.9	1501.8	1504.0
7.5°	1410.3	1405.8	1403.5	1408.0	1421.8	1446.9	1460.6	1469.8	1478.9	1492.6	1506.3
10°	1376.0	1373.8	1371.5	1378.3	1392.0	1414.9	1433.2	1446.9	1481.2	1520.0	1545.2
12.5°	1353.2	1353.2	1357.8	1371.5	1389.8	1408.0	1451.5	1469.8	1522.3	1581.8	1616.1
15°	1334.9	1334.9	1341.8	1366.9	1392.0	1435.5	1499.5	1520.0	1581.8	1654.9	1700.6
17.5°	1321.2	1325.8	1330.3	1355.5	1403.5	1476.6	1552.0	1581.8	1657.2	1737.2	1787.5
20°	1323.5	1328.0	1330.3	1355.5	1424.0	1524.6	1620.6	1654.9	1741.8	1826.3	1876.6
22.5°	1337.2	1344.0	1346.3	1380.6	1460.6	1574.9	1698.3	1737.2	1830.9	1920.1	1958.9
25°	1394.3	1398.9	1385.2	1414.9	1513.2	1652.6	1798.9	1840.1	1933.8	2016.1	2048.1
27.5°	1588.6	1593.2	1517.8	1483.5	1554.3	1716.6	1922.3	1979.5	2096.1	2150.9	2155.5
30°	2009.2	2013.8	1865.2	1702.9	1652.6	1771.5	1990.9	2070.9	2221.8	2283.5	2256.1
32.5°	2550.9	2546.4	2342.9	2102.9	1885.8	1867.5	2089.2	2173.8	2338.4	2397.8	2377.2
35°	3095.0	3101.8	2928.1	2566.9	2256.1	2048.1	2214.9	2313.2	2512.1	2596.7	2560.1
37.5°	3467.5	3513.3	3437.8	3047.0	2710.9	2381.8	2418.4	2523.5	2772.7	2886.9	2809.2
40°	3993.3	3981.8	3799.0	3511.0	3213.8	2875.5	2747.5	2797.8	3083.5	3236.7	3115.5
42.5°	4699.6	4676.7	4365.9	4084.7	3753.3	3476.7	3216.1	3207.0	3440.1	3618.4	3442.4
45°	5339.6	5305.3	5092.7	4820.7	4457.3	4139.6	3787.5	3707.5	3869.8	4020.7	3815.0
47.5°	5849.3	5792.2	5641.3	5497.3	5408.2	4914.4	4386.4	4265.3	4347.6	4459.6	4169.3
50°	6452.8	6295.1	6075.6	5988.8	6173.9	5792.2	4962.4	4845.9	4841.3	4905.3	4535.0
52.5°	6727.1	6441.3	6317.9	6391.1	6717.9	6608.2	5584.2	5417.3	5351.0	5357.9	4875.6
55°	6395.6	6363.6	6429.9	6658.5	7085.9	7021.9	6180.8	5975.0	5876.8	5753.3	5202.4
57.5°	6018.5	6116.8	6379.6	6816.2	7552.2	7453.9	6768.2	6535.1	6354.5	6071.0	5565.9
60°	5671.0	5771.6	6205.9	6852.8	7808.2	7870.0	7257.4	7035.6	6768.2	6395.6	5965.9
62.5°	5143.0	5220.7	5831.0	6800.2	7696.2	8112.3	7598.0	7431.1	7181.9	6704.2	6425.3
65°	4548.7	4599.0	5202.4	6379.6	7476.8	8084.8	7879.1	7785.4	7543.1	7026.5	6880.2
67.5°	3897.3	3956.7	4459.6	5623.0	7047.1	7956.8	8144.3	8135.1	7858.5	7383.1	7209.4
70°	3147.5	3152.1	3568.1	4663.0	6297.3	7700.8	8473.4	8494.0	8160.3	7650.5	7223.1
72.5°	1506.3	1629.8	2313.2	3255.0	5117.9	7197.9	8688.3	8791.1	8350.0	7641.4	6443.6
75°	345.2	356.6	674.3	1547.5	3001.2	5524.7	8151.1	8343.1	7888.2	6608.2	4539.6
77.5°	125.7	132.6	189.7	452.6	1154.3	2854.9	5833.3	6114.5	5831.0	4272.1	2146.4
80°	84.6	82.3	98.3	201.1	530.3	809.2	2983.0	3149.8	2875.5	1458.3	514.3
82.5°	43.4	45.7	68.6	112.0	356.6	281.2	996.6	1083.5	891.5	292.6	96.0
85°	20.6	20.6	38.9	70.9	150.9	98.3	221.7	267.4	240.0	128.0	32.0
87.5°	20.6	20.6	36.6	45.7	77.7	41.1	54.9	68.6	64.0	68.6	11.4
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°	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1522.3	1520.0	1517.8	1522.3	1520.0	1524.6	1524.6	1529.2	1529.2	1524.6	1522.3
5°	1501.8	1497.2	1492.6	1492.6	1490.3	1494.9	1508.6	1520.0	1522.3	1515.5	1513.2
7.5°	1504.0	1504.0	1499.5	1490.3	1474.3	1474.3	1474.3	1488.0	1494.9	1490.3	1488.0
10°	1545.2	1547.5	1536.0	1515.5	1488.0	1462.9	1414.9	1344.0	1277.8	1259.5	1252.6
12.5°	1616.1	1618.3	1595.5	1558.9	1501.8	1353.2	1170.3	1001.2	870.9	834.3	827.5
15°	1700.6	1702.9	1661.8	1602.3	1428.6	1083.5	811.5	619.4	505.2	477.7	475.4
17.5°	1787.5	1782.9	1721.2	1606.9	1211.5	768.0	493.7	395.4	365.7	358.9	361.2
20°	1872.1	1858.3	1773.8	1522.3	932.6	502.9	361.2	338.3	331.4	326.9	326.9
22.5°	1949.8	1922.3	1817.2	1355.5	653.7	361.2	322.3	317.7	308.6	301.7	299.4
25°	2027.5	1988.6	1844.6	1138.3	438.9	315.4	304.0	294.9	283.4	274.3	272.0
27.5°	2121.2	2066.4	1830.9	864.0	329.2	292.6	283.4	269.7	253.7	240.0	235.4
30°	2210.4	2148.6	1753.2	596.6	281.2	269.7	256.0	235.4	214.9	198.9	194.3
32.5°	2322.4	2251.5	1613.8	390.9	244.6	235.4	221.7	196.6	169.1	150.9	146.3
35°	2482.4	2402.4	1435.5	274.3	214.9	198.9	180.6	153.1	123.4	109.7	107.4
37.5°	2706.4	2598.9	1211.5	221.7	189.7	166.9	139.4	112.0	91.4	80.0	77.7
40°	2980.7	2816.1	962.3	196.6	169.1	139.4	105.1	80.0	66.3	57.1	57.1
42.5°	3277.8	3019.5	708.6	180.6	148.6	114.3	77.7	57.1	48.0	43.4	41.1
45°	3584.1	3200.1	477.7	166.9	130.3	86.9	54.9	38.9	32.0	32.0	29.7
47.5°	3901.8	3321.2	308.6	150.9	109.7	64.0	36.6	27.4	22.9	22.9	22.9
50°	4217.3	3385.2	219.4	137.1	89.1	43.4	27.4	20.6	18.3	18.3	18.3
52.5°	4445.9	3344.1	176.0	118.9	68.6	32.0	20.6	16.0	13.7	13.7	13.7
55°	4644.7	3273.2	153.1	102.9	50.3	22.9	16.0	13.7	11.4	11.4	11.4
57.5°	4848.2	3181.8	137.1	86.9	36.6	16.0	11.4	9.1	9.1	9.1	9.1
60°	5033.3	3026.4	118.9	68.6	25.1	11.4	9.1	6.9	6.9	6.9	6.9
62.5°	5213.9	2893.8	102.9	52.6	18.3	9.1	4.6	4.6	2.3	2.3	2.3
65°	5316.7	2715.5	82.3	34.3	11.4	6.9	2.3	2.3	0.0	0.0	0.0
67.5°	5284.7	2502.9	57.1	20.6	6.9	4.6	2.3	0.0	0.0	0.0	0.0
70°	5063.0	2217.2	34.3	11.4	6.9	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	4240.1	1641.2	20.6	9.1	4.6	2.3	0.0	0.0	0.0	0.0	0.0
75°	2832.1	754.3	11.4	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0
77.5°	1296.0	226.3	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	260.6	59.4	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.9	11.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	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)