

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: P237186

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-130-D-U-T3-7030-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA 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: 12556.1 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G3

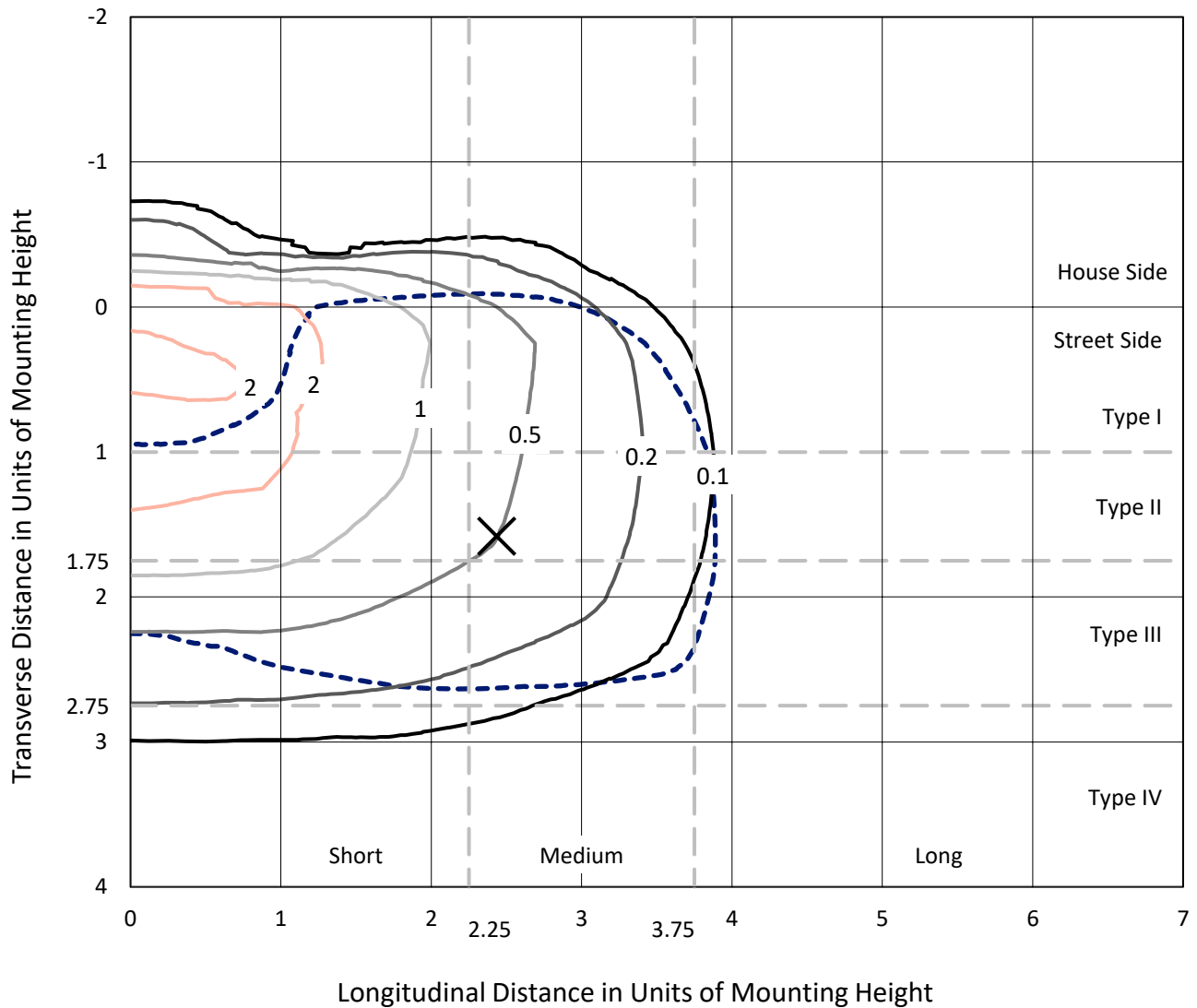
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

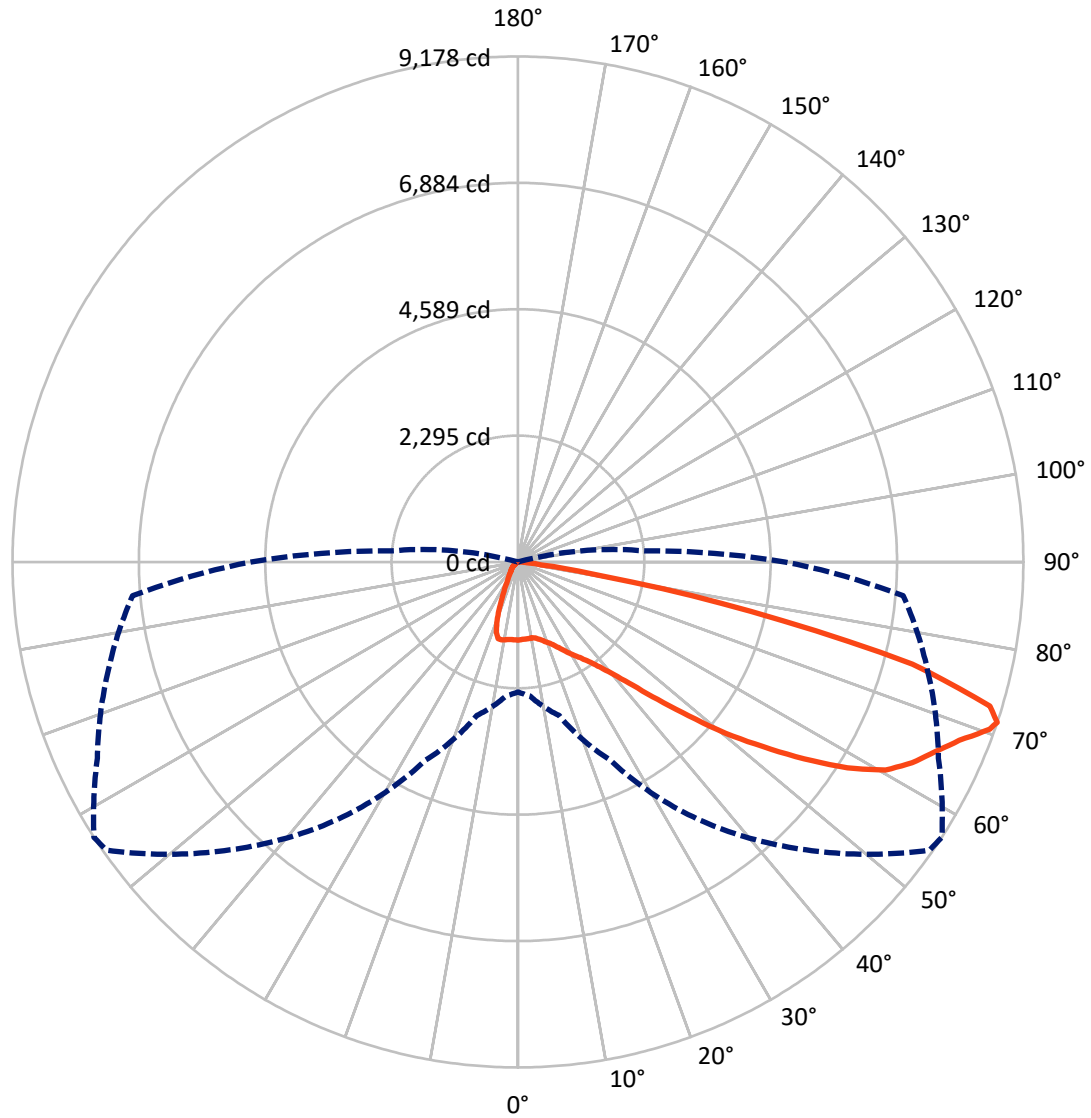
✕ Max cd  
 - - - 1/2 Max cd



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



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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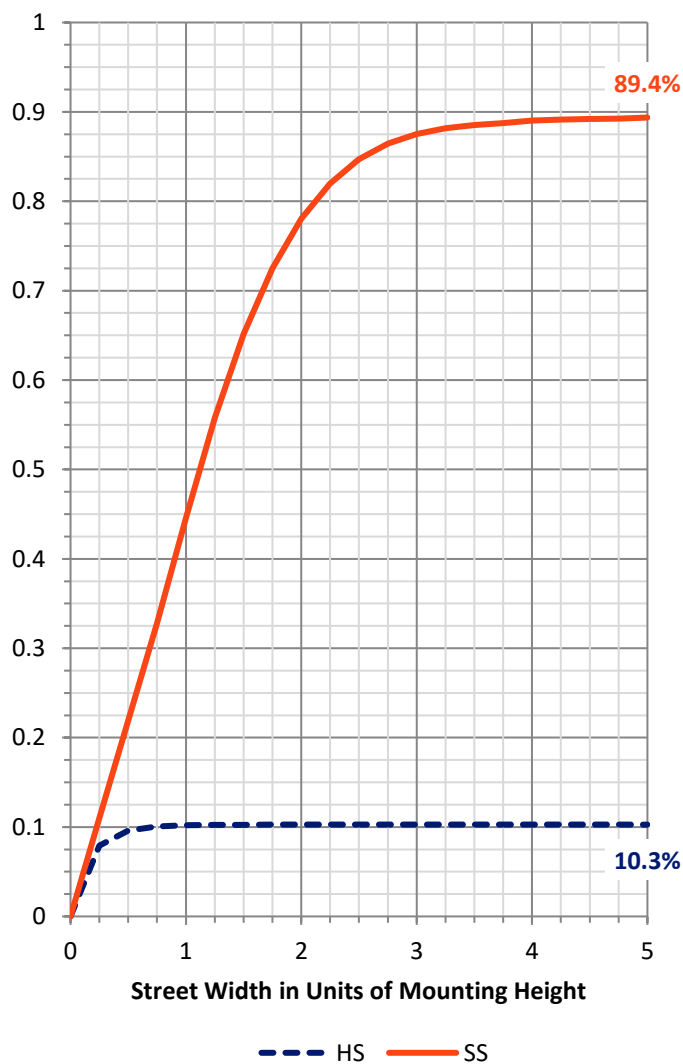
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1301.2	0.0	1301.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	11254.9	0.0	11254.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	12556.1	0.0	12556.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	1.1
10°-20°	356.3	2.8
20°-30°	555.9	4.4
30°-40°	939.5	7.5
40°-50°	1824.7	14.5
50°-60°	3064.3	24.4
60°-70°	3656.9	29.1
70°-80°	1927.3	15.3
80°-90°	97.9	0.8
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°	12556.1	100.0
0°-180°	12556.1	100.0

**Coefficient of Utilization**



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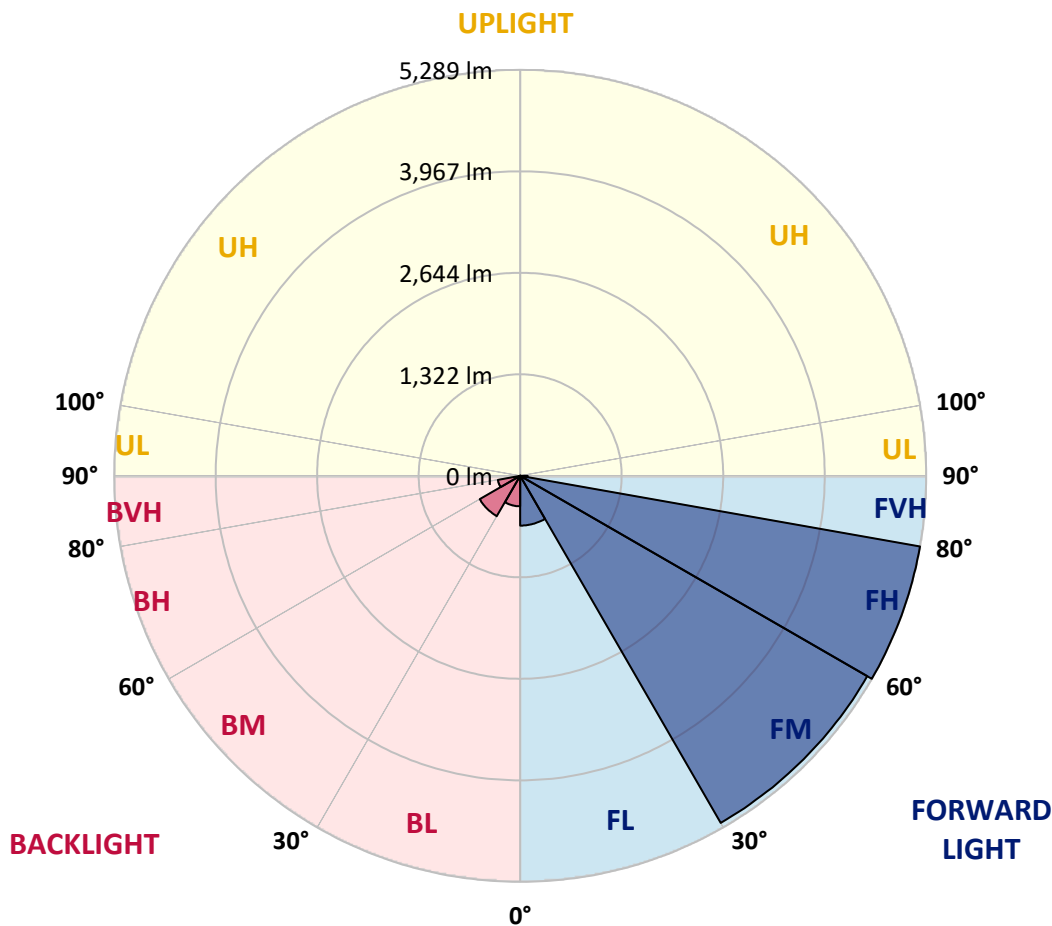
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.2	5.2			
FM (30°-60°)	5220.9	41.6			
FH (60°-80°)	5288.7	42.1			G3/7500
FVH (80°-90°)	97.0	0.8			G1/100
BL (0°-30°)	397.2	3.2	B1/500		
BM (30°-60°)	607.6	4.8	B1/1000		
BH (60°-80°)	295.5	2.4	B1/500		G1/500
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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1398.5	1398.5	1398.5	1401.5	1404.4	1404.4	1410.2	1407.4	1407.4	1407.4	1413.2
5°	1360.5	1363.4	1366.4	1372.2	1383.9	1392.7	1407.4	1407.4	1410.2	1416.1	1419.1
7.5°	1307.9	1310.8	1319.6	1331.3	1354.7	1375.1	1398.5	1404.4	1413.2	1427.8	1433.7
10°	1275.7	1281.5	1293.2	1307.9	1334.2	1360.5	1389.8	1398.5	1424.8	1451.2	1465.8
12.5°	1266.9	1269.8	1281.5	1304.9	1337.2	1369.2	1407.4	1416.1	1454.1	1495.1	1518.4
15°	1281.5	1284.5	1290.3	1316.6	1354.7	1395.6	1445.4	1457.1	1503.9	1550.7	1580.0
17.5°	1307.9	1307.9	1313.8	1337.2	1378.1	1424.8	1489.2	1506.8	1559.4	1612.1	1644.4
20°	1325.5	1325.5	1334.2	1357.5	1404.4	1465.8	1541.8	1565.3	1623.8	1682.4	1711.6
22.5°	1342.9	1345.8	1354.7	1381.0	1433.7	1518.4	1606.3	1629.7	1697.1	1758.4	1787.7
25°	1392.7	1389.8	1392.7	1416.1	1477.5	1582.8	1694.1	1723.3	1793.5	1860.8	1875.4
27.5°	1530.1	1524.3	1486.4	1471.7	1518.4	1650.2	1805.2	1834.5	1916.4	1983.7	1983.7
30°	1846.2	1834.5	1740.8	1620.9	1582.8	1711.6	1910.6	1951.5	2056.8	2115.4	2097.8
32.5°	2247.0	2220.7	2100.7	1895.9	1743.8	1793.5	2021.8	2068.6	2203.1	2252.9	2214.9
35°	2685.9	2683.0	2533.7	2270.4	2054.0	1963.3	2165.1	2220.7	2390.4	2434.3	2372.9
37.5°	3151.1	3162.8	3063.3	2700.6	2446.0	2241.2	2355.3	2419.6	2627.3	2680.0	2621.5
40°	3669.0	3666.0	3628.1	3197.9	2917.0	2636.2	2630.3	2688.9	2940.5	3022.3	2940.5
42.5°	4324.4	4318.5	4181.1	3794.8	3487.5	3151.1	3031.2	3051.6	3332.5	3467.2	3347.1
45°	4991.5	4950.5	4792.5	4459.0	4186.9	3789.0	3560.8	3560.8	3800.7	3985.0	3797.8
47.5°	5363.0	5322.1	5257.7	5073.4	4991.5	4546.8	4210.3	4169.4	4356.6	4543.8	4280.4
50°	5851.7	5851.7	5690.8	5620.6	5760.9	5447.8	4927.0	4886.2	4976.9	5126.0	4780.8
52.5°	6237.8	6167.6	6053.5	6115.0	6515.7	6372.4	5643.9	5564.9	5635.1	5673.2	5216.8
55°	6398.8	6331.5	6322.8	6548.0	7168.3	6969.3	6378.3	6308.1	6302.2	6115.0	5597.2
57.5°	6431.0	6372.4	6483.7	6878.6	7803.2	7457.9	7109.7	7057.0	6893.2	6425.1	5986.2
60°	6158.8	6188.1	6457.3	7060.0	8177.7	7882.2	7727.2	7671.5	7294.0	6688.5	6419.3
62.5°	5600.1	5670.2	6173.4	7077.6	8040.2	8054.8	8069.5	8031.4	7604.2	6928.3	6855.3
65°	4938.8	4959.3	5564.9	6834.7	7800.2	8002.1	8321.0	8318.1	7841.2	7197.6	7346.7
67.5°	4069.8	4105.0	4628.7	6015.5	7320.4	7978.7	8651.7	8642.9	8110.5	7504.8	7639.3
70°	3028.2	3072.2	3496.4	4678.4	6249.5	7686.2	9084.7	9090.6	8394.2	7738.9	7437.5
71°	2361.1	2440.1	2884.9	3973.3	5702.5	7390.7	9125.7	9178.4	8426.4	7706.6	7022.0
72.5°	1158.5	1252.2	1811.1	2797.1	4693.0	6729.4	8856.4	8958.9	8224.5	7305.8	6003.8
75°	301.3	318.9	541.3	1144.0	2516.2	4459.0	7141.9	7402.4	6723.6	5562.0	3669.0
77.5°	190.2	196.0	254.6	444.6	942.2	1694.1	4195.7	4324.4	3841.7	2817.6	1293.2
80°	134.6	137.5	160.9	286.7	550.0	494.5	1509.8	1565.3	1389.8	746.1	231.2
82.5°	82.0	82.0	117.0	184.3	339.4	269.3	397.9	424.3	374.5	207.7	76.1
85°	46.8	49.7	73.1	125.7	160.9	131.6	149.2	158.0	160.9	137.5	32.2
87.5°	38.0	41.0	64.4	105.3	87.7	64.4	64.4	67.3	70.3	82.0	14.6
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°	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1	1419.1
2.5°	1413.2	1413.2	1416.1	1413.2	1413.2	1413.2	1416.1	1416.1	1416.1	1421.9	1424.8
5°	1419.1	1419.1	1419.1	1416.1	1413.2	1413.2	1419.1	1421.9	1421.9	1430.8	1430.8
7.5°	1433.7	1433.7	1427.8	1421.9	1416.1	1407.4	1410.2	1413.2	1410.2	1413.2	1413.2
10°	1465.8	1465.8	1457.1	1445.4	1427.8	1401.5	1366.4	1322.5	1281.5	1266.9	1261.1
12.5°	1518.4	1515.5	1498.1	1477.5	1439.5	1348.8	1217.1	1062.1	933.3	898.2	886.5
15°	1577.0	1571.1	1550.7	1515.5	1413.2	1173.2	898.2	699.3	576.4	547.2	541.3
17.5°	1638.5	1629.7	1600.4	1530.1	1293.2	871.9	579.3	438.9	371.6	365.7	368.6
20°	1702.8	1691.2	1650.2	1501.0	1044.5	582.3	374.5	339.4	333.6	333.6	336.5
22.5°	1776.0	1761.4	1705.7	1395.6	760.7	386.2	321.9	318.9	316.0	313.0	313.0
25°	1860.8	1843.3	1758.4	1205.4	523.7	316.0	307.2	298.4	292.6	286.7	283.8
27.5°	1963.3	1939.8	1799.4	971.5	359.9	295.5	289.6	275.0	263.4	251.7	251.7
30°	2065.6	2036.4	1787.7	731.5	292.6	275.0	263.4	245.8	228.3	216.6	213.6
32.5°	2173.9	2144.6	1711.6	491.5	266.3	251.7	237.0	210.7	190.2	175.6	172.6
35°	2334.8	2311.4	1562.4	324.7	240.0	222.4	201.9	175.6	149.2	134.6	131.6
37.5°	2574.7	2545.5	1378.1	248.7	210.7	184.3	166.7	137.5	111.2	96.5	93.6
40°	2896.6	2808.8	1158.5	219.4	184.3	152.1	128.7	99.4	79.0	70.3	70.3
42.5°	3271.1	3063.3	921.6	199.0	163.9	125.7	93.6	67.3	55.6	52.7	52.7
45°	3669.0	3300.2	684.6	184.3	143.3	99.4	67.3	46.8	41.0	38.0	38.0
47.5°	4078.6	3493.4	476.9	166.7	119.9	76.1	46.8	35.1	29.3	26.3	26.3
50°	4461.9	3619.2	336.5	149.2	102.3	55.6	35.1	26.3	20.4	20.4	20.4
52.5°	4728.0	3607.5	242.9	128.7	79.0	38.0	23.4	17.6	17.6	17.6	17.6
55°	4962.2	3563.7	190.2	111.2	61.4	26.3	17.6	14.6	14.6	11.7	11.7
57.5°	5161.2	3493.4	160.9	90.6	43.9	20.4	11.7	11.7	8.7	8.7	8.7
60°	5330.9	3405.6	134.6	76.1	29.3	14.6	8.7	5.9	5.9	2.9	5.9
62.5°	5562.0	3350.1	117.0	58.6	20.4	8.7	5.9	2.9	2.9	0.0	0.0
65°	5731.7	3244.8	99.4	41.0	11.7	5.9	2.9	2.9	0.0	0.0	0.0
67.5°	5737.5	3054.6	73.1	23.4	8.7	5.9	2.9	0.0	0.0	0.0	0.0
70°	5275.2	2603.9	46.8	11.7	5.9	2.9	2.9	0.0	0.0	0.0	0.0
71°	4851.0	2305.6	38.0	8.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	3996.7	1694.1	29.3	8.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0
75°	2203.1	614.5	14.6	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	705.2	187.3	8.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.9	29.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.0	11.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.9	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)