

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: P572835

Luminaire Tested: **ARCH-S-PA2-120-740-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-120-740-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10739 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

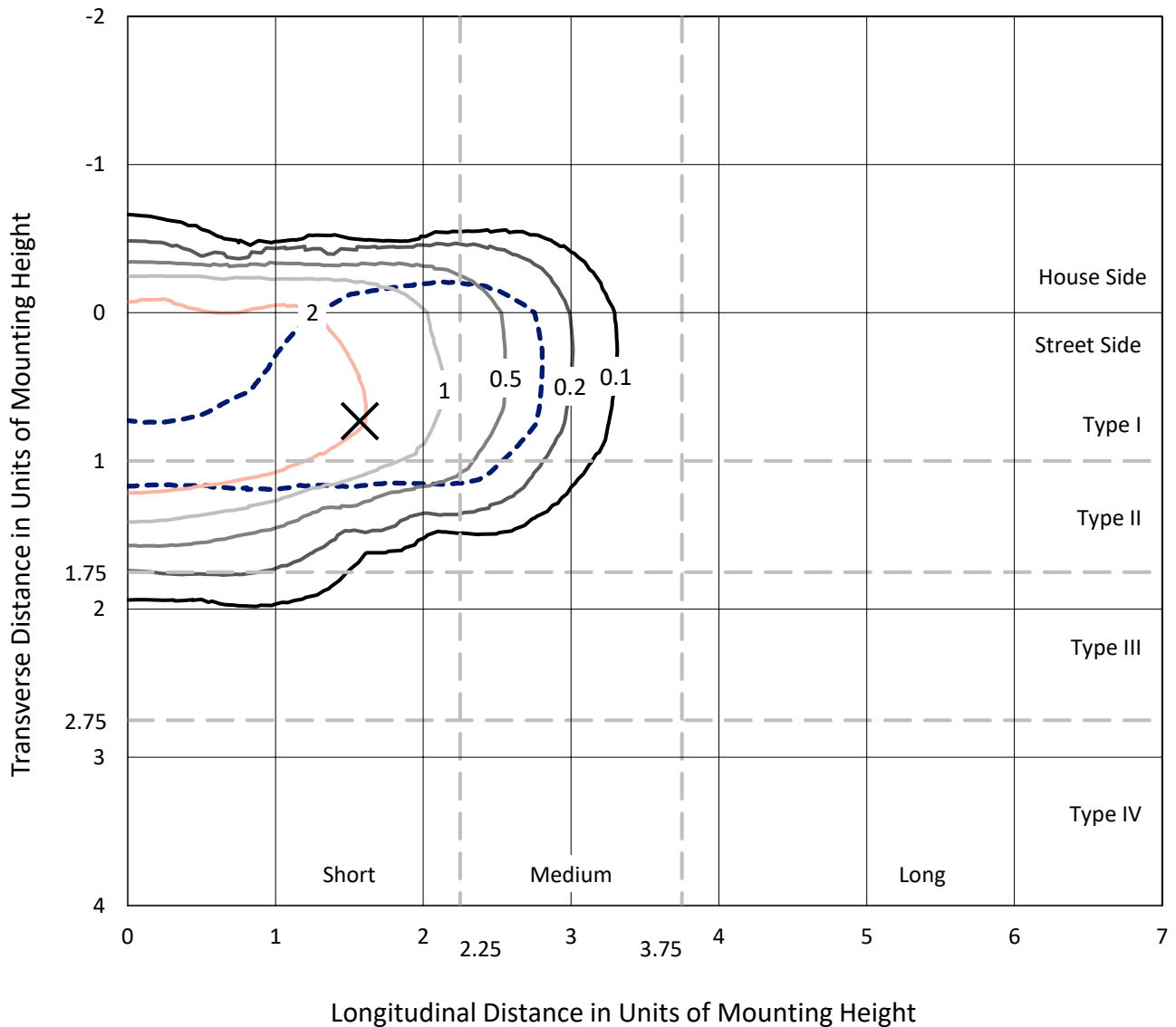
Input Watts (W): 122.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

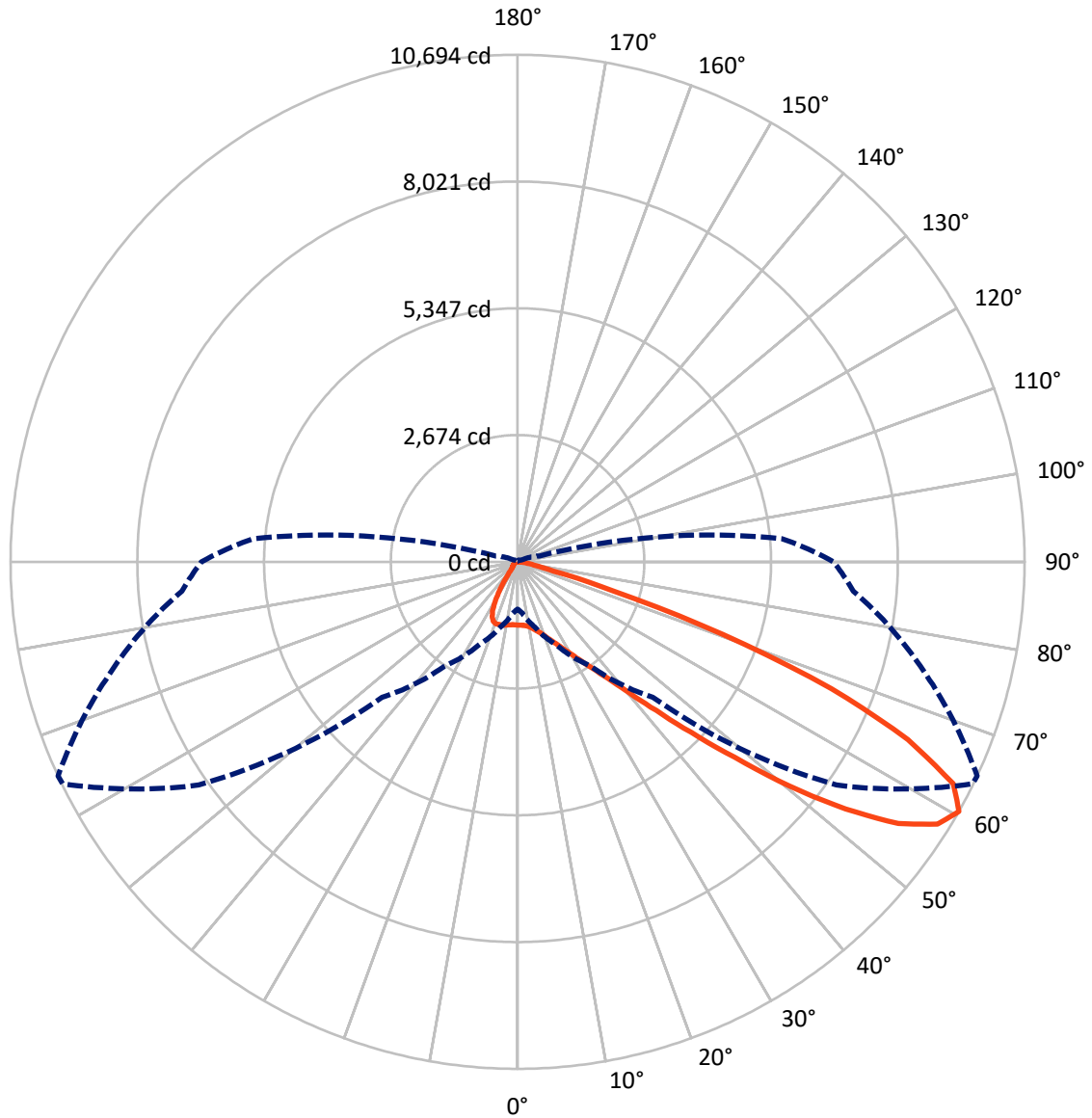
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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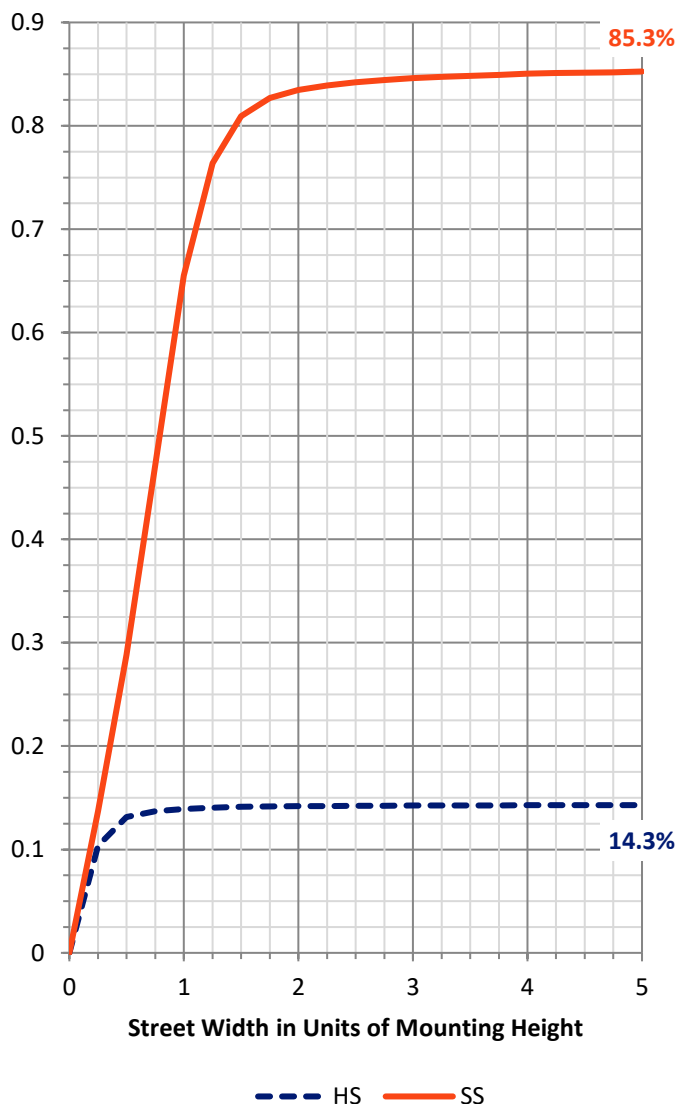
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1554.7	0.0	1554.7
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	9184.3	0.0	9184.3
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	10739.0	0.0	10739.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.4	1.2
10°-20°	358.7	3.3
20°-30°	609.3	5.7
30°-40°	1257.3	11.7
40°-50°	2528.7	23.5
50°-60°	3094.3	28.8
60°-70°	2189.0	20.4
70°-80°	527.5	4.9
80°-90°	47.7	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°	10739.0	100.0
0°-180°	10739.0	100.0

**Coefficient of Utilization**

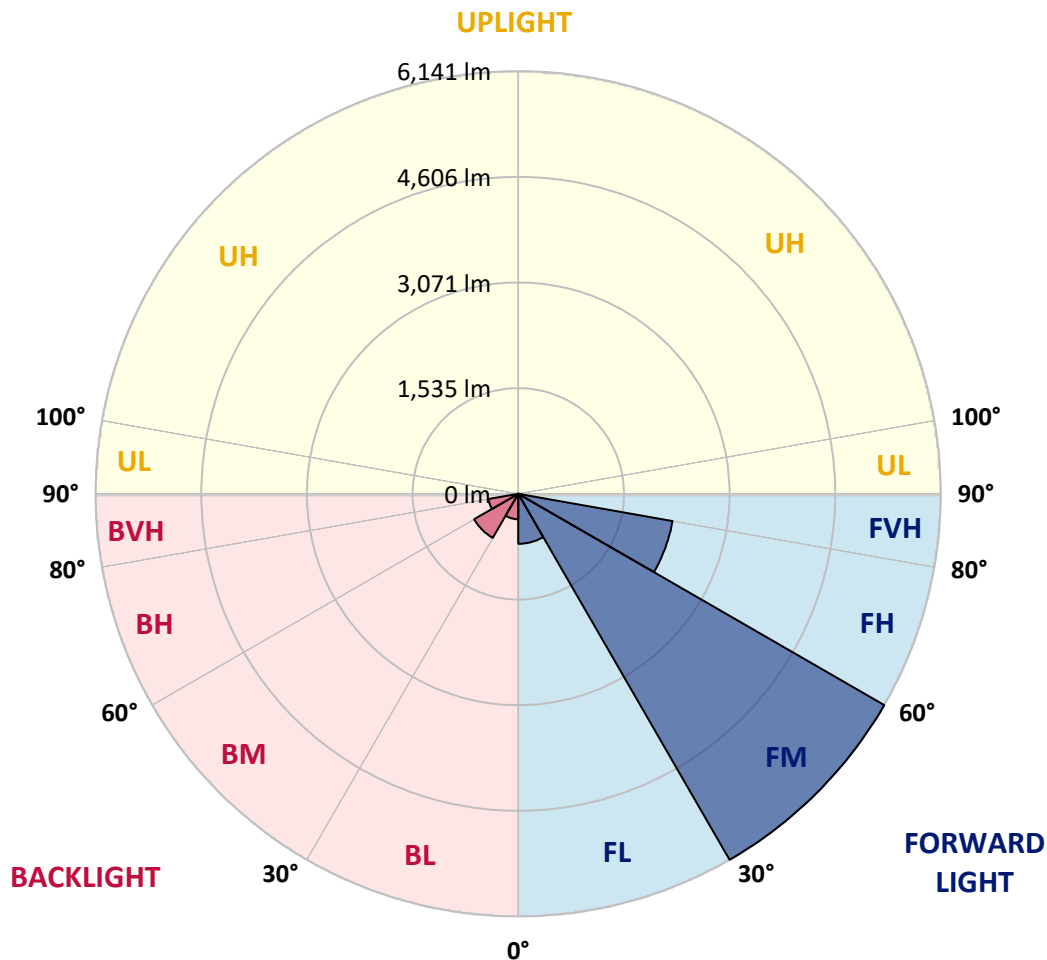


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.9	6.8			
FM (30°-60°)	6141.0	57.2			
FH (60°-80°)	2275.9	21.2			G2/5000
FVH (80°-90°)	41.5	0.4			G1/100
BL (0°-30°)	368.6	3.4	B1/500		
BM (30°-60°)	739.2	6.9	B1/1000		
BH (60°-80°)	440.7	4.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8
2.5°	1342.0	1337.8	1337.8	1337.8	1342.0	1342.0	1346.3	1337.8	1337.8	1337.8	1337.8
5°	1333.6	1329.3	1329.3	1333.6	1337.8	1337.8	1346.3	1346.3	1346.3	1350.5	1350.5
7.5°	1350.5	1342.0	1342.0	1346.3	1350.5	1350.5	1359.0	1363.2	1363.2	1371.7	1375.9
10°	1371.7	1367.4	1367.4	1375.9	1384.4	1384.4	1397.1	1397.1	1397.1	1405.5	1409.8
12.5°	1401.3	1397.1	1397.1	1409.8	1422.5	1430.9	1439.4	1443.7	1447.9	1447.9	1447.9
15°	1443.7	1439.4	1439.4	1452.1	1469.1	1490.2	1502.9	1502.9	1511.4	1507.2	1490.2
17.5°	1502.9	1498.7	1502.9	1511.4	1532.6	1553.7	1579.1	1583.4	1579.1	1570.7	1545.3
20°	1600.3	1587.6	1596.1	1617.2	1617.2	1629.9	1663.8	1676.5	1680.7	1655.3	1608.8
22.5°	1701.9	1701.9	1710.4	1735.8	1718.8	1735.8	1765.4	1786.6	1795.0	1773.9	1697.7
25°	1892.4	1900.9	1888.2	1879.7	1837.4	1845.8	1883.9	1926.3	1926.3	1909.3	1799.3
27.5°	2311.5	2303.1	2214.2	2091.4	1981.3	1989.8	2027.9	2082.9	2087.2	2049.1	1900.9
30°	2912.7	2921.2	2747.6	2468.2	2226.9	2163.4	2205.7	2269.2	2277.7	2214.2	2032.1
32.5°	3852.6	3780.6	3458.8	3086.3	2633.3	2404.7	2421.6	2489.3	2514.7	2459.7	2239.6
35°	5067.6	4898.3	4415.6	3954.2	3298.0	2836.5	2705.3	2777.2	2789.9	2760.3	2497.8
37.5°	5791.5	5656.1	5342.8	4923.7	4153.1	3412.3	3077.8	3149.8	3137.1	3077.8	2756.1
40°	6240.3	6164.1	5994.7	5800.0	5308.9	4318.3	3691.7	3632.4	3636.6	3552.0	3175.2
42.5°	6494.3	6426.6	6363.1	6413.9	6269.9	5960.9	4580.7	4309.8	4284.4	4123.5	3662.0
45°	6507.0	6405.4	6481.6	6778.0	7006.6	7417.2	5740.7	5114.2	5126.9	4860.1	4267.4
47.5°	6020.1	5939.7	6159.9	6739.9	7497.7	8369.8	7091.2	6214.9	6155.6	5630.7	4881.3
50°	5059.1	5054.9	5347.0	6168.3	7497.7	8860.9	8539.1	7506.1	7442.6	6435.0	5440.1
52.5°	4005.0	4085.4	4284.4	5063.4	6807.6	8814.3	9606.0	8839.7	8661.9	7150.5	5905.8
55°	3115.9	3086.3	3327.6	3865.3	5397.8	8009.9	9953.1	9889.6	9741.5	7785.6	6316.5
57.5°	1913.6	2023.7	2349.6	2828.0	3928.8	6299.6	9453.6	10528.9	10440.0	8378.3	6744.1
60°	994.9	1079.6	1430.9	1930.5	2684.1	4038.8	8204.7	10677.1	10694.0	8856.6	7108.2
62.5°	626.6	622.3	783.2	1354.7	1727.3	2269.2	6371.5	10152.1	10313.0	9225.0	7455.3
65°	469.9	474.2	537.7	897.5	1172.7	1185.4	3780.6	8780.4	9047.2	9322.3	7573.9
67.5°	436.1	440.3	469.9	588.5	880.6	791.7	1663.8	6769.5	7142.0	8424.8	7116.6
70°	389.5	393.7	440.3	486.9	664.7	580.0	749.3	4076.9	4593.4	6113.3	5694.2
72.5°	304.8	313.3	368.3	461.5	495.3	440.3	520.7	1803.5	2104.1	3361.5	3259.9
75°	224.4	228.6	279.4	355.6	436.1	313.3	402.2	715.5	783.2	1261.6	1075.3
77.5°	156.6	156.6	194.7	266.7	364.1	220.1	287.9	385.3	393.7	469.9	309.1
80°	97.4	101.6	122.8	182.0	224.4	211.7	177.8	258.2	258.2	245.5	127.0
82.5°	55.0	59.3	84.7	122.8	152.4	143.9	114.3	148.2	152.4	156.6	72.0
85°	25.4	29.6	50.8	76.2	88.9	67.7	67.7	76.2	76.2	101.6	42.3
87.5°	4.2	4.2	25.4	33.9	29.6	33.9	33.9	42.3	42.3	50.8	21.2
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°	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8	1337.8
2.5°	1333.6	1333.6	1333.6	1329.3	1329.3	1325.1	1316.6	1316.6	1316.6	1316.6	1320.9
5°	1350.5	1346.3	1342.0	1329.3	1320.9	1303.9	1287.0	1282.8	1270.1	1270.1	1274.3
7.5°	1371.7	1371.7	1359.0	1337.8	1316.6	1287.0	1257.4	1236.2	1215.0	1210.8	1206.6
10°	1409.8	1401.3	1388.6	1350.5	1316.6	1270.1	1223.5	1168.5	1126.1	1105.0	1096.5
12.5°	1439.4	1435.2	1409.8	1367.4	1312.4	1240.4	1134.6	1007.6	906.0	850.9	850.9
15°	1481.8	1473.3	1435.2	1375.9	1299.7	1130.4	914.5	719.7	609.6	550.4	541.9
17.5°	1524.1	1507.2	1460.6	1380.1	1244.7	931.4	639.3	461.5	385.3	355.6	347.2
20°	1574.9	1545.3	1477.5	1384.4	1109.2	677.4	414.9	309.1	279.4	266.7	270.9
22.5°	1642.6	1591.8	1494.5	1359.0	906.0	440.3	292.1	249.8	232.8	220.1	220.1
25°	1727.3	1655.3	1524.1	1287.0	656.2	296.4	232.8	207.4	190.5	182.0	177.8
27.5°	1803.5	1714.6	1553.7	1160.0	419.1	232.8	194.7	173.6	156.6	152.4	148.2
30°	1905.1	1782.3	1583.4	956.8	275.2	190.5	165.1	143.9	131.2	127.0	127.0
32.5°	2078.7	1913.6	1638.4	728.2	207.4	165.1	139.7	122.8	114.3	110.1	110.1
35°	2281.9	2074.5	1685.0	508.0	177.8	139.7	118.5	105.8	101.6	97.4	97.4
37.5°	2493.6	2265.0	1693.4	321.8	156.6	122.8	105.8	97.4	88.9	88.9	88.9
40°	2874.6	2599.4	1655.3	215.9	135.5	110.1	93.1	88.9	80.4	80.4	80.4
42.5°	3319.1	3005.8	1558.0	173.6	122.8	97.4	88.9	80.4	72.0	72.0	67.7
45°	3894.9	3467.3	1392.8	152.4	110.1	88.9	80.4	72.0	67.7	63.5	63.5
47.5°	4436.8	3992.3	1236.2	135.5	101.6	84.7	72.0	63.5	59.3	59.3	59.3
50°	4953.3	4394.5	1054.2	127.0	93.1	80.4	67.7	59.3	55.0	50.8	50.8
52.5°	5325.8	4712.0	884.8	114.3	84.7	72.0	63.5	55.0	46.6	42.3	42.3
55°	5740.7	5033.7	732.4	101.6	80.4	67.7	55.0	46.6	38.1	33.9	33.9
57.5°	6206.4	5347.0	592.7	93.1	76.2	59.3	46.6	38.1	29.6	25.4	25.4
60°	6667.9	5596.8	474.2	84.7	67.7	55.0	42.3	29.6	21.2	16.9	16.9
62.5°	7129.3	5766.1	364.1	76.2	63.5	46.6	33.9	21.2	12.7	8.5	8.5
65°	7319.9	5719.6	270.9	67.7	55.0	38.1	29.6	21.2	12.7	8.5	8.5
67.5°	6790.7	5143.8	190.5	67.7	50.8	38.1	25.4	16.9	8.5	4.2	4.2
70°	5300.4	3971.1	139.7	67.7	50.8	38.1	25.4	16.9	8.5	4.2	4.2
72.5°	3005.8	2209.9	105.8	59.3	46.6	33.9	25.4	16.9	8.5	4.2	4.2
75°	1071.1	711.2	80.4	55.0	42.3	29.6	25.4	16.9	8.5	4.2	4.2
77.5°	258.2	182.0	63.5	46.6	38.1	29.6	21.2	16.9	12.7	4.2	4.2
80°	105.8	76.2	50.8	38.1	29.6	25.4	21.2	16.9	8.5	4.2	4.2
82.5°	46.6	38.1	21.2	21.2	16.9	16.9	16.9	16.9	8.5	4.2	4.2
85°	21.2	16.9	8.5	8.5	4.2	4.2	4.2	8.5	8.5	4.2	4.2
87.5°	12.7	8.5	8.5	8.5	4.2	4.2	4.2	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)