

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: P573081

Luminaire Tested: **ARCH-S-PA2-30-740-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-30-740-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5247 lumens  
Efficiency: N/A  
Efficacy: 156.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

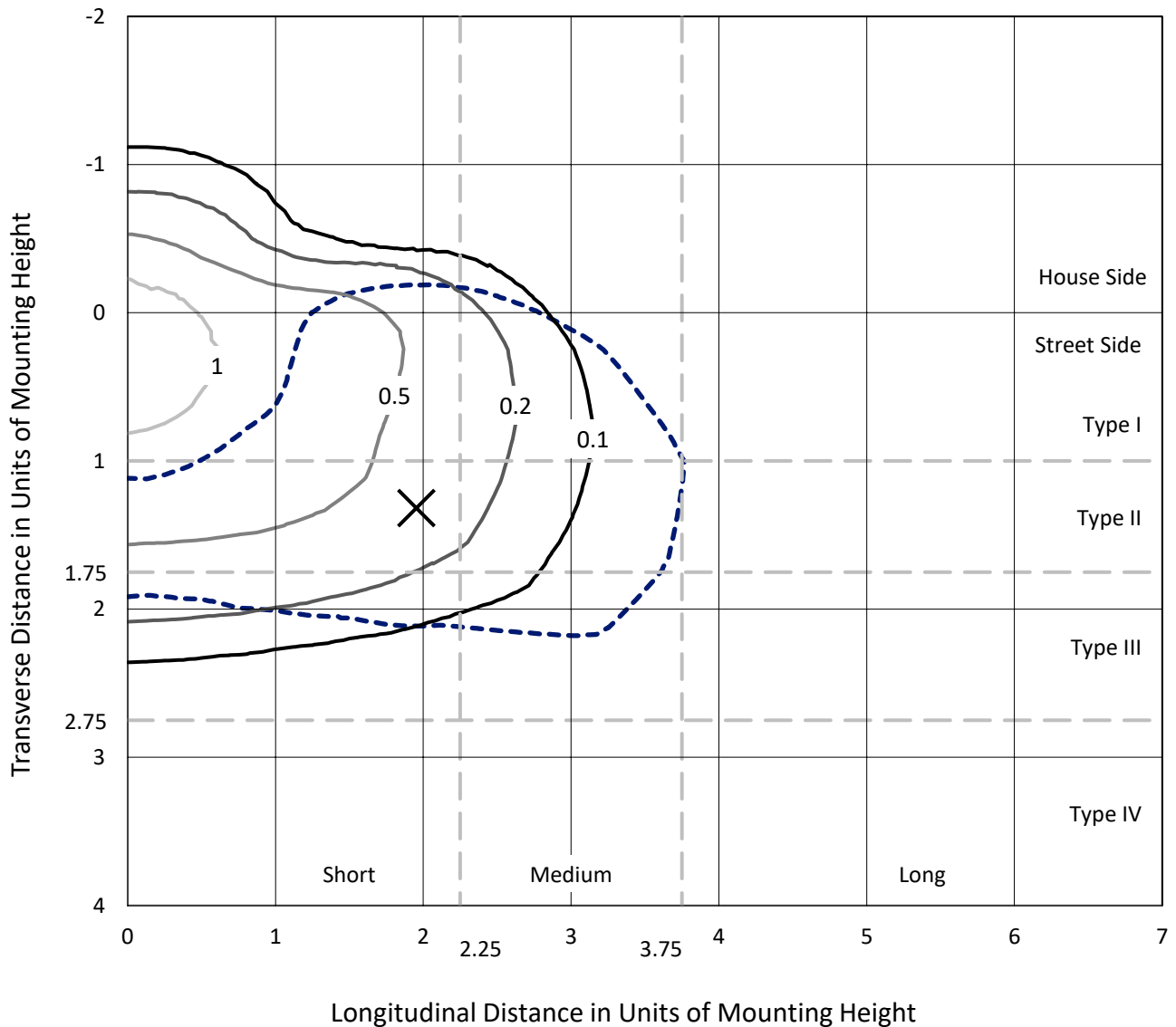
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

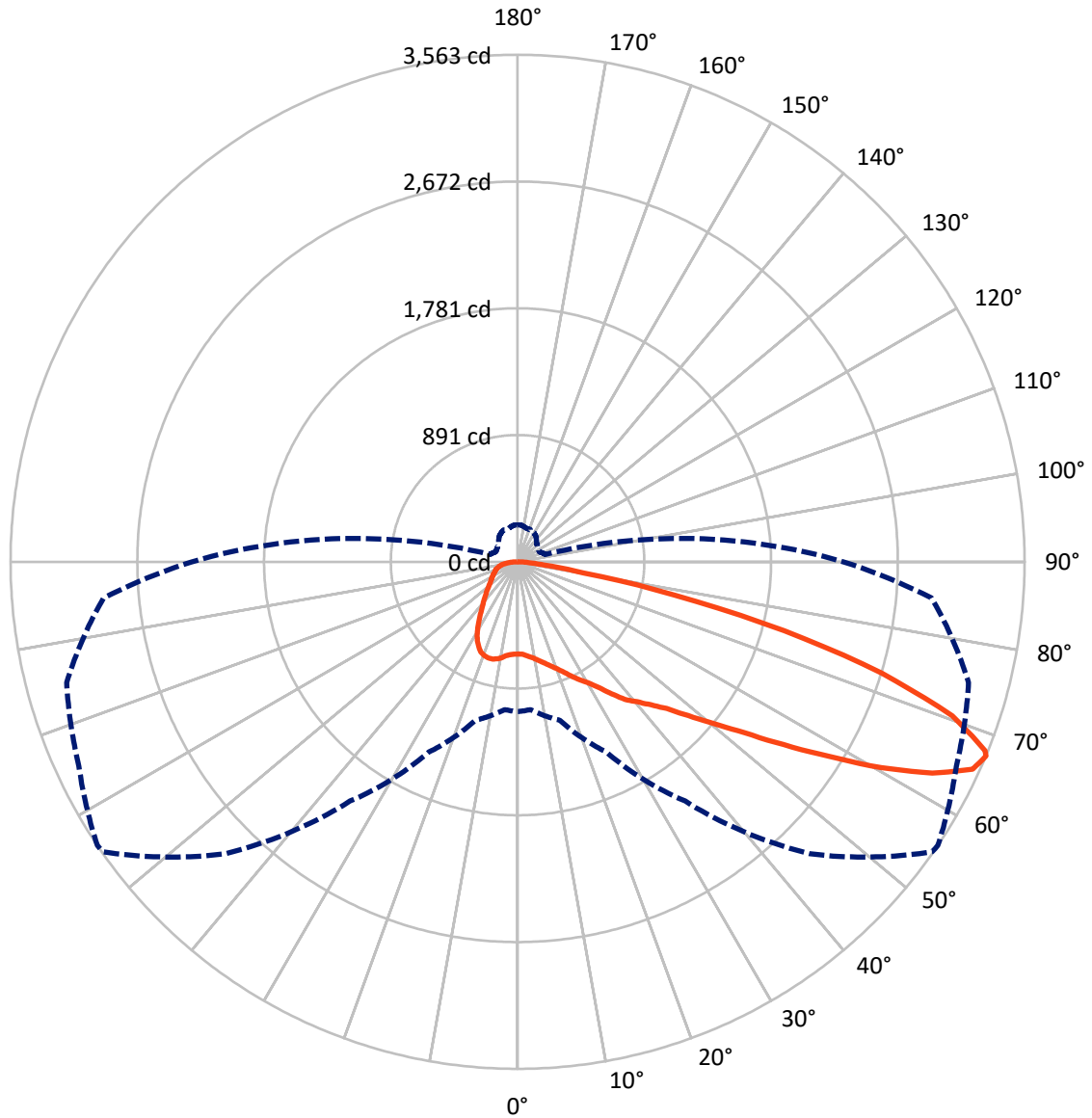
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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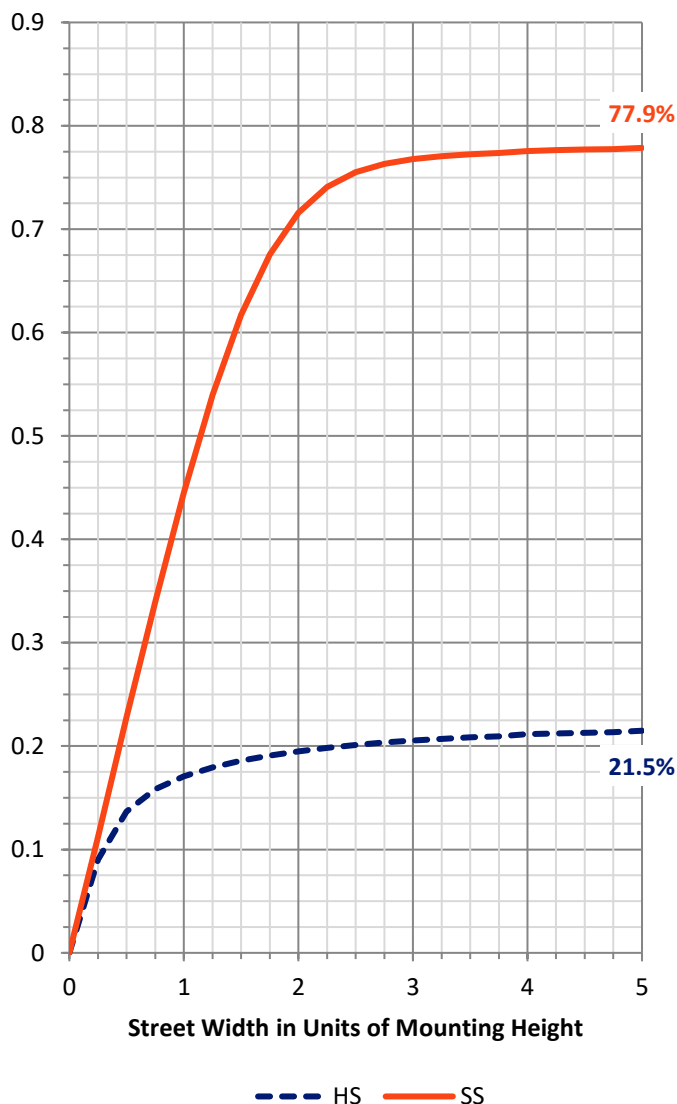
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1147.9	0.0	1147.9
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	4099.1	0.0	4099.1
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	5247.0	0.0	5247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	1.2
10°-20°	204.4	3.9
20°-30°	355.7	6.8
30°-40°	521.6	9.9
40°-50°	763.1	14.5
50°-60°	1192.6	22.7
60°-70°	1417.5	27.0
70°-80°	645.6	12.3
80°-90°	82.8	1.6
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°	5247.0	100.0
0°-180°	5247.0	100.0

**Coefficient of Utilization**



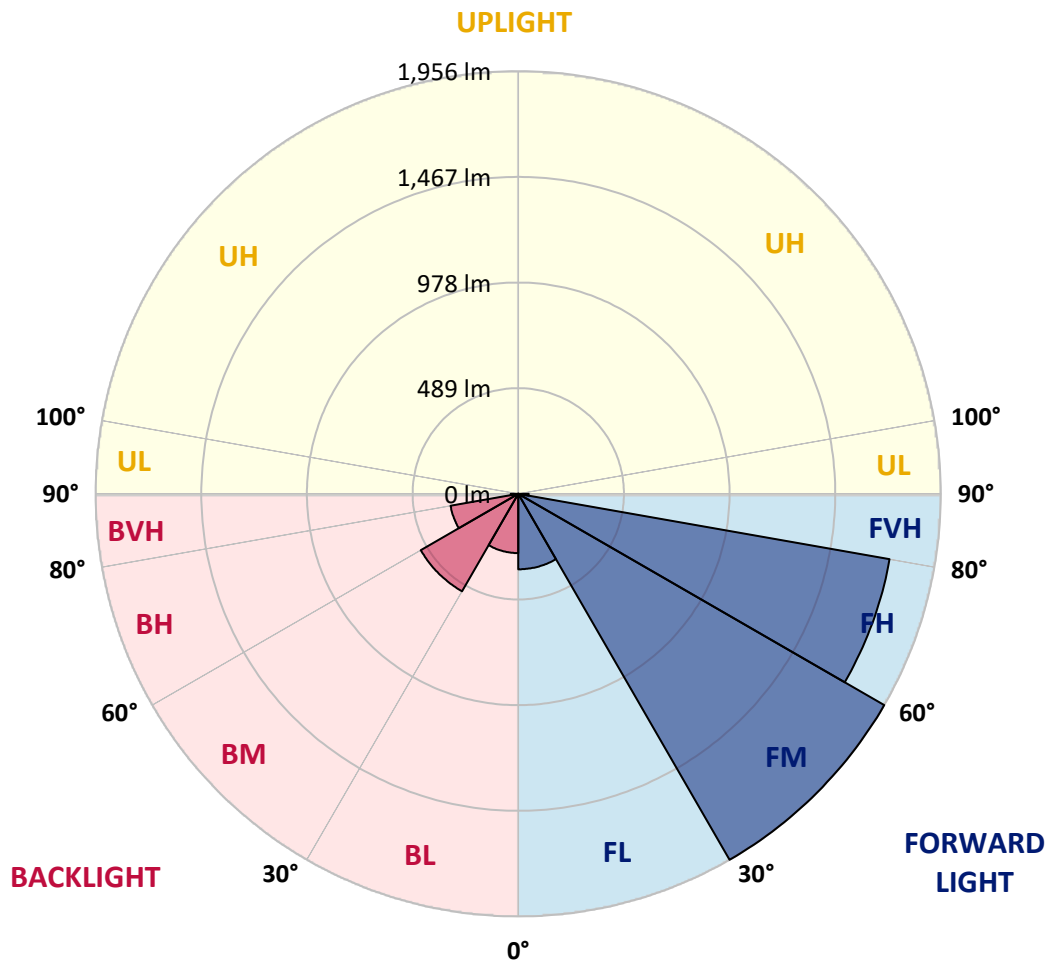
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	349.5	6.7			
FM (30°-60°)	1956.2	37.3			
FH (60°-80°)	1745.1	33.3			G1/1800
FVH (80°-90°)	48.3	0.9			G1/100
BL (0°-30°)	274.3	5.2	B1/500		
BM (30°-60°)	521.1	9.9	B1/1000		
BH (60°-80°)	318.0	6.1	B1/500		G1/500
BVH (80°-90°)	34.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8
2.5°	657.7	654.9	653.5	654.9	653.5	650.6	652.1	650.6	649.2	647.8	647.8
5°	666.3	663.4	662.0	663.4	664.8	662.0	662.0	662.0	657.7	656.3	653.5
7.5°	671.9	667.7	667.7	670.5	673.4	674.8	677.6	676.2	671.9	669.1	663.4
10°	690.4	684.7	684.7	684.7	687.6	690.4	693.3	694.7	693.3	691.8	687.6
12.5°	718.8	713.1	713.1	713.1	713.1	711.7	716.0	717.4	720.3	720.3	713.1
15°	757.2	750.1	747.2	741.6	740.1	737.3	743.0	743.0	747.2	748.7	741.6
17.5°	794.1	785.6	782.8	777.1	771.4	764.3	770.0	771.4	779.9	781.3	770.0
20°	832.5	829.6	825.4	816.9	806.9	799.8	805.5	804.1	811.2	814.0	799.8
22.5°	882.2	875.1	872.3	860.9	849.5	842.4	842.4	845.3	852.4	852.4	831.1
25°	941.9	931.9	924.8	912.0	897.8	889.3	890.7	893.6	903.5	896.4	863.7
27.5°	1015.7	1005.8	995.8	970.3	956.1	939.0	937.6	940.4	956.1	937.6	895.0
30°	1085.3	1081.1	1072.6	1052.7	1029.9	1001.5	988.7	990.2	1001.5	976.0	922.0
32.5°	1145.0	1139.3	1135.1	1120.9	1105.2	1071.1	1054.1	1055.5	1054.1	1022.8	954.7
35°	1216.0	1207.5	1204.7	1191.9	1172.0	1149.3	1142.2	1139.3	1130.8	1088.2	997.3
37.5°	1284.2	1275.7	1271.4	1264.3	1248.7	1228.8	1228.8	1227.4	1210.4	1150.7	1039.9
40°	1365.2	1355.3	1342.5	1338.2	1325.4	1311.2	1299.9	1292.8	1262.9	1208.9	1122.3
42.5°	1463.2	1457.5	1450.4	1432.0	1412.1	1409.2	1376.6	1373.7	1352.4	1321.2	1238.8
45°	1603.9	1592.5	1582.6	1576.9	1552.7	1527.2	1481.7	1470.3	1470.3	1463.2	1375.2
47.5°	1745.9	1726.0	1740.2	1736.0	1730.3	1701.9	1613.8	1615.2	1612.4	1630.9	1575.5
50°	1841.1	1829.7	1869.5	1888.0	1927.8	1927.8	1801.3	1785.7	1797.1	1851.1	1780.0
52.5°	1915.0	1907.9	1953.3	2025.8	2143.7	2155.1	2024.4	1991.7	2007.3	2084.0	2055.6
55°	1974.7	1967.5	2020.1	2146.5	2335.5	2405.1	2281.5	2267.3	2236.0	2318.4	2327.0
57.5°	2010.2	1994.5	2074.1	2243.1	2491.8	2652.3	2582.7	2578.4	2506.0	2582.7	2621.0
60°	1956.2	1946.2	2055.6	2282.9	2618.2	2885.3	2936.4	2936.4	2807.1	2848.3	2895.2
62.5°	1781.4	1768.7	1883.7	2190.6	2633.8	3075.6	3287.3	3270.2	3096.9	3095.5	3054.3
65°	1449.0	1433.4	1562.7	1886.6	2436.3	3098.4	3524.5	3514.6	3314.3	3257.5	3064.3
67°	1052.7	1042.7	1153.5	1474.6	2052.8	2900.9	3554.4	3562.9	3400.9	3280.2	2920.8
67.5°	944.7	943.3	1035.6	1353.8	1940.6	2828.4	3534.5	3543.0	3399.5	3261.7	2864.0
70°	440.4	460.3	546.9	775.7	1308.4	2227.5	3207.7	3240.4	3217.7	3048.6	2412.2
72.5°	204.6	213.1	251.4	375.0	703.2	1436.2	2599.7	2677.9	2777.3	2615.3	1910.7
75°	126.4	129.3	150.6	194.6	331.0	690.4	1851.1	1936.3	2086.9	1967.5	1221.7
77.5°	99.4	100.9	115.1	139.2	193.2	296.9	1015.7	1122.3	1318.3	1163.5	615.1
80°	73.9	76.7	88.1	108.0	136.4	152.0	431.9	471.6	636.4	487.3	255.7
82.5°	54.0	56.8	68.2	78.1	95.2	96.6	176.2	186.1	272.8	197.5	110.8
85°	45.5	45.5	52.6	58.2	63.9	54.0	86.7	85.2	105.1	89.5	44.0
87.5°	21.3	22.7	49.7	36.9	31.3	22.7	25.6	27.0	32.7	35.5	17.0
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°	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8
2.5°	646.4	646.4	646.4	647.8	649.2	649.2	650.6	650.6	652.1	653.5	656.3
5°	652.1	652.1	650.6	652.1	654.9	656.3	659.2	662.0	664.8	667.7	669.1
7.5°	663.4	662.0	662.0	662.0	664.8	667.7	671.9	674.8	679.1	680.5	683.3
10°	684.7	681.9	681.9	683.3	684.7	680.5	679.1	677.6	681.9	684.7	687.6
12.5°	710.3	707.5	706.0	701.8	696.1	687.6	680.5	674.8	676.2	679.1	683.3
15°	737.3	731.6	728.8	718.8	704.6	686.2	674.8	667.7	667.7	667.7	671.9
17.5°	765.7	760.0	748.7	730.2	703.2	677.6	663.4	650.6	645.0	643.5	646.4
20°	792.7	784.2	765.7	737.3	694.7	660.6	642.1	620.8	612.3	606.6	609.4
22.5°	818.3	806.9	781.3	737.3	680.5	635.0	602.3	573.9	559.7	556.9	558.3
25°	845.3	831.1	797.0	728.8	649.2	596.7	551.2	521.4	502.9	500.1	504.3
27.5°	872.3	850.9	809.7	706.0	613.7	544.1	495.8	467.4	457.4	451.8	453.2
30°	895.0	875.1	822.5	674.8	565.4	483.0	439.0	426.2	419.1	416.2	416.2
32.5°	924.8	906.4	831.1	637.9	508.6	427.6	399.2	389.2	383.6	376.5	377.9
35°	961.8	944.7	826.8	591.0	454.6	390.7	367.9	353.7	340.9	331.0	329.6
37.5°	1011.5	998.7	805.5	534.1	404.9	363.7	340.9	322.5	304.0	288.4	285.5
40°	1093.9	1064.0	774.2	471.6	370.8	342.4	315.4	292.6	269.9	252.9	248.6
42.5°	1199.0	1136.5	731.6	407.7	342.4	319.6	292.6	262.8	241.5	225.9	225.9
45°	1321.2	1214.6	680.5	359.4	312.5	296.9	264.2	238.7	225.9	215.9	214.5
47.5°	1466.1	1292.8	615.1	321.1	288.4	277.0	244.3	228.7	220.2	211.7	210.3
50°	1660.7	1397.9	566.8	288.4	264.2	254.3	238.7	225.9	217.4	211.7	210.3
52.5°	1883.7	1532.8	532.7	262.8	244.3	240.1	237.2	227.3	218.8	214.5	213.1
55°	2125.2	1699.1	500.1	241.5	228.7	234.4	240.1	230.1	224.5	218.8	215.9
57.5°	2352.5	1839.7	447.5	223.0	217.4	227.3	238.7	231.6	224.5	220.2	218.8
60°	2507.4	1910.7	375.0	206.0	206.0	217.4	234.4	224.5	217.4	218.8	218.8
62.5°	2557.1	1883.7	296.9	190.4	194.6	206.0	221.6	215.9	213.1	220.2	220.2
65°	2483.2	1774.3	237.2	177.6	183.3	191.8	214.5	220.2	228.7	244.3	245.8
67°	2290.0	1598.2	200.3	167.6	173.3	187.5	223.0	242.9	242.9	260.0	260.0
67.5°	2233.2	1538.5	194.6	164.8	171.9	187.5	227.3	248.6	242.9	262.8	262.8
70°	1815.5	1210.4	164.8	156.3	166.2	197.5	245.8	250.0	237.2	255.7	254.3
72.5°	1346.7	875.1	150.6	147.7	154.8	186.1	244.3	240.1	221.6	227.3	223.0
75°	832.5	507.2	139.2	136.4	140.6	164.8	225.9	218.8	197.5	193.2	188.9
77.5°	402.0	257.1	119.3	123.6	127.9	143.5	198.9	191.8	173.3	163.4	161.9
80°	174.7	132.1	102.3	109.4	110.8	122.2	164.8	156.3	139.2	123.6	123.6
82.5°	86.7	73.9	81.0	90.9	88.1	98.0	129.3	115.1	102.3	85.2	82.4
85°	39.8	42.6	59.7	68.2	59.7	61.1	88.1	81.0	63.9	48.3	49.7
87.5°	14.2	19.9	34.1	41.2	29.8	28.4	46.9	34.1	19.9	5.7	7.1
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)