

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: P572735

Luminaire Tested: **ARCH-S-PA2-110-730-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13743 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

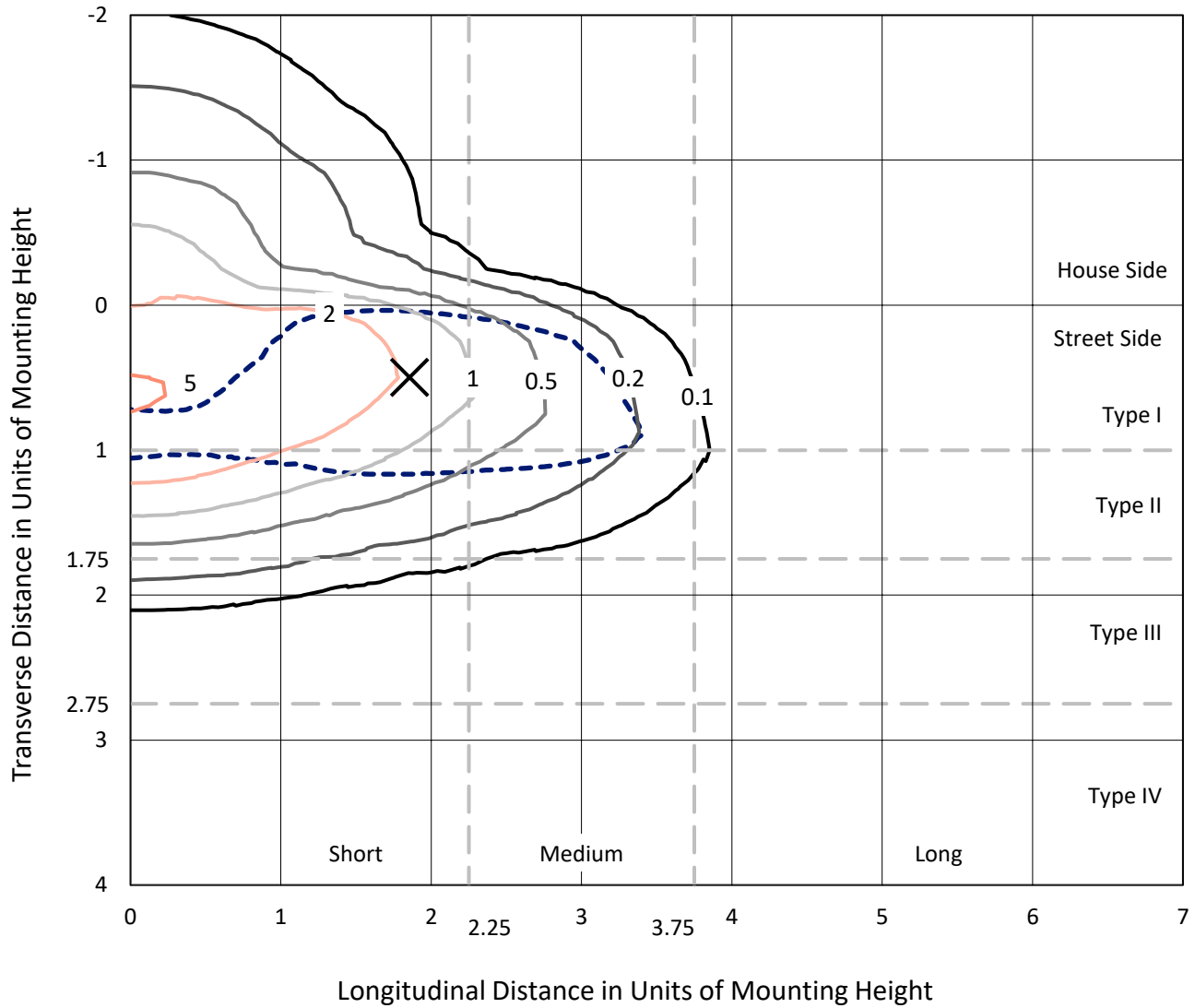
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572735
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Iso-Footcandle Lines of Horizontal Illumination

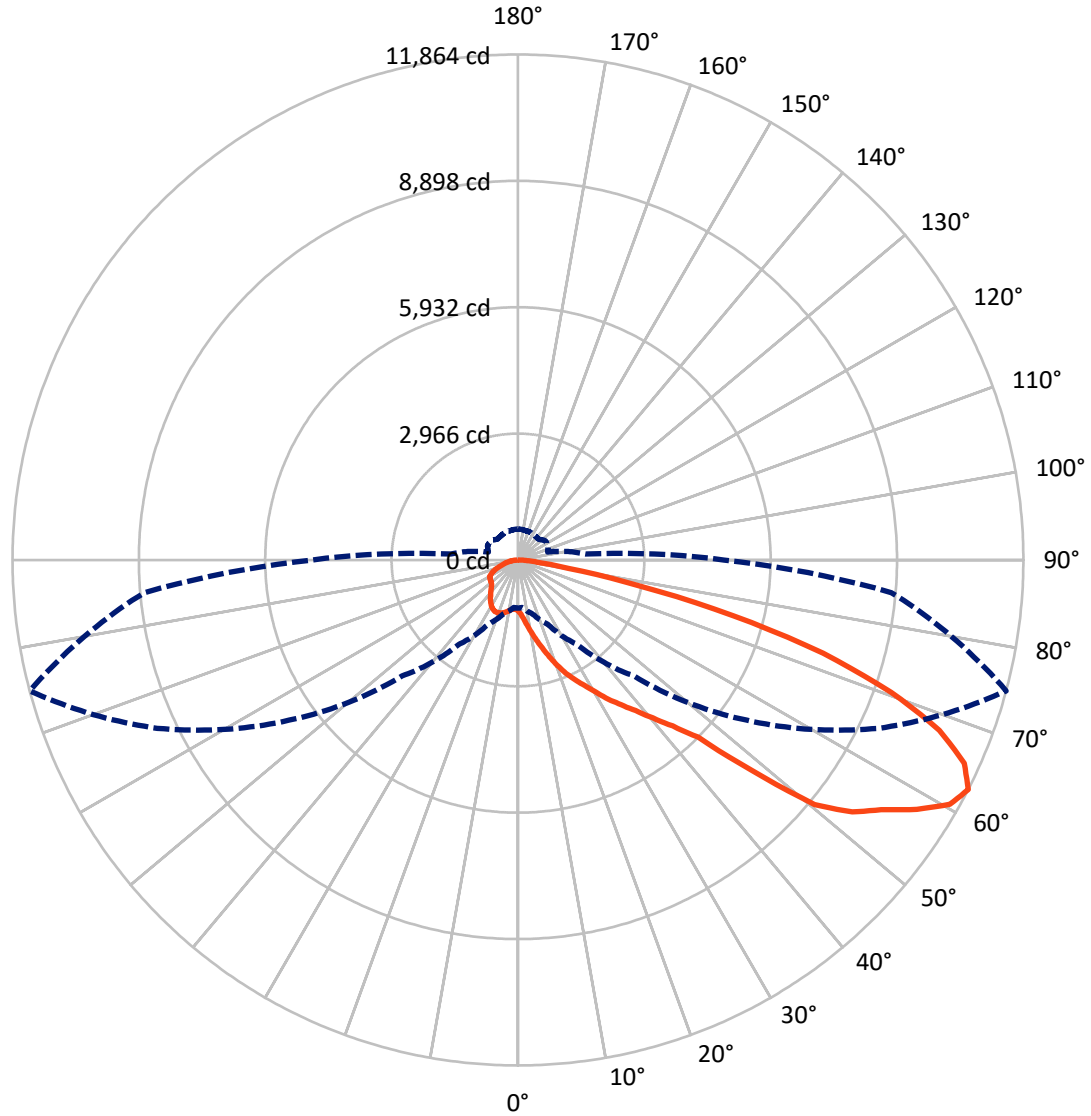
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P572735
CATALOG NUMBER: ARCH-S-PA2-110-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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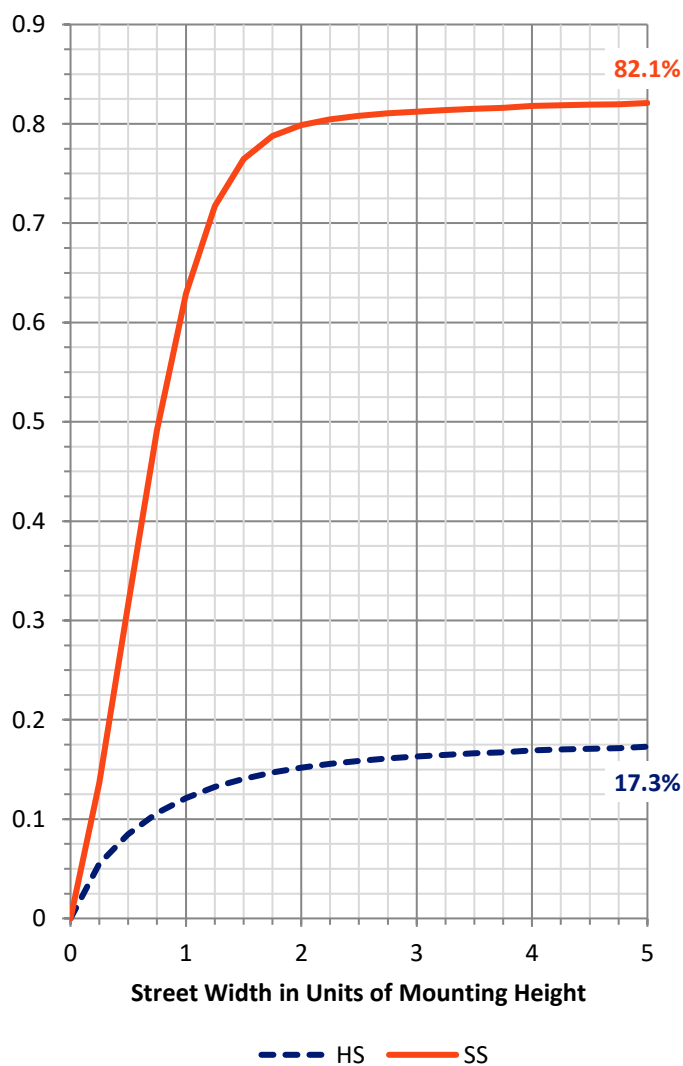
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2423.9	0.0	2423.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	11319.1	0.0	11319.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	13743.0	0.0	13743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.0
10°-20°	568.7	4.1
20°-30°	1125.1	8.2
30°-40°	1875.3	13.6
40°-50°	2767.3	20.1
50°-60°	3326.5	24.2
60°-70°	2585.4	18.8
70°-80°	1143.7	8.3
80°-90°	207.1	1.5
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°	13743.0	100.0
0°-180°	13743.0	100.0

Coefficient of Utilization

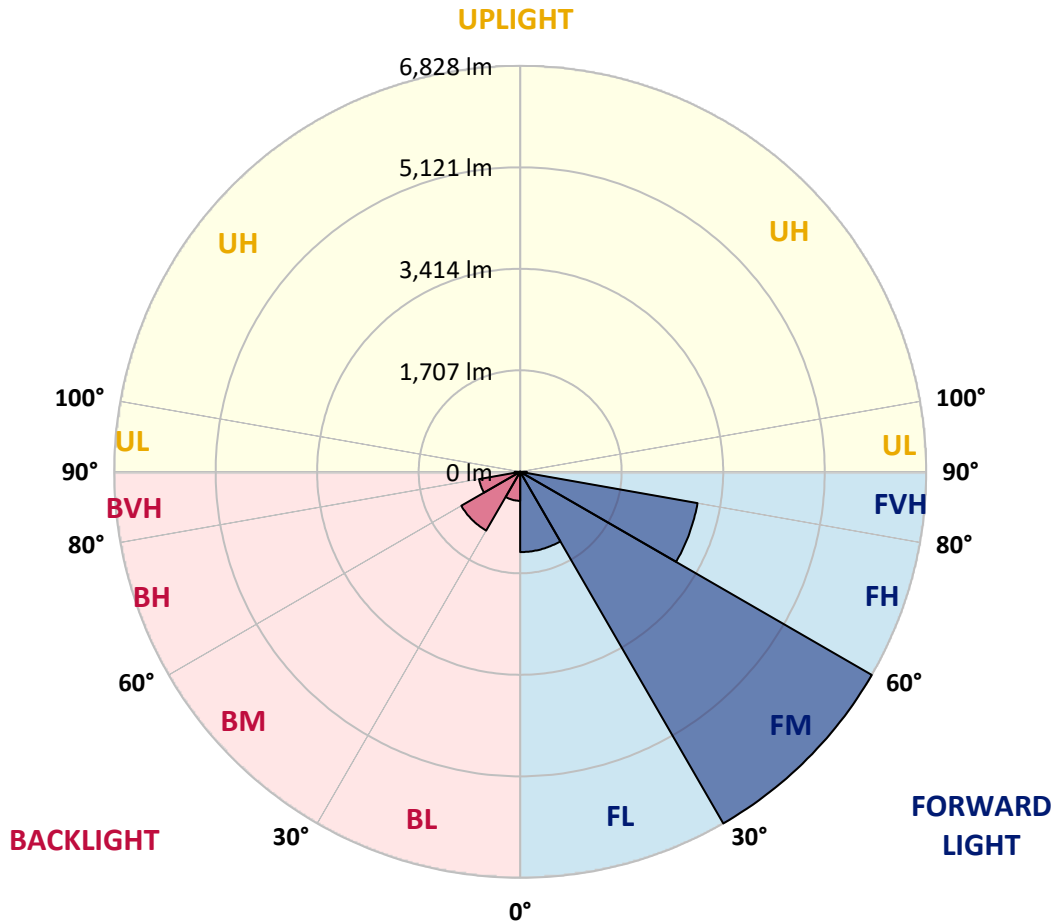


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.9	9.8			
FM (30°-60°)	6827.5	49.7			
FH (60°-80°)	3027.8	22.0			G2/5000
FVH (80°-90°)	113.8	0.8			G2/225
BL (0°-30°)	487.7	3.5	B1/500		
BM (30°-60°)	1141.6	8.3	B2/2500		
BH (60°-80°)	701.3	5.1	B2/1000		G2/1000
BVH (80°-90°)	93.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1531.7	1487.2	1487.2	1439.0	1442.7	1401.9	1357.4	1312.9	1264.7	1227.6	1209.1
5°	2002.7	1969.4	1958.2	1902.6	1813.6	1713.5	1605.9	1494.6	1379.7	1290.7	1246.1
7.5°	2444.1	2418.1	2403.3	2340.2	2217.8	2110.3	1939.7	1735.7	1539.1	1372.2	1305.5
10°	2770.5	2751.9	2722.2	2692.6	2603.6	2510.8	2299.4	2010.2	1720.9	1472.4	1372.2
12.5°	3007.8	2981.9	2981.9	2978.1	2918.8	2833.5	2636.9	2325.4	1932.3	1583.6	1446.4
15°	3167.3	3163.6	3174.7	3197.0	3182.1	3126.5	2929.9	2614.7	2147.4	1709.7	1531.7
17.5°	3286.0	3271.1	3293.4	3352.7	3397.2	3375.0	3211.8	2892.8	2384.7	1847.0	1624.4
20°	3415.8	3386.1	3415.8	3490.0	3545.6	3579.0	3501.1	3159.9	2640.6	1995.3	1713.5
22.5°	3664.3	3660.6	3645.7	3668.0	3705.1	3764.4	3719.9	3430.6	2889.1	2143.7	1817.3
25°	4109.3	4068.5	4027.7	3979.5	3938.7	3957.3	3920.2	3682.8	3115.4	2306.9	1906.3
27.5°	4606.3	4561.8	4487.6	4368.9	4257.7	4190.9	4113.0	3901.6	3334.2	2455.2	1991.6
30°	5062.5	5047.6	4936.4	4806.6	4613.7	4491.3	4343.0	4153.8	3597.5	2618.4	2080.6
32.5°	5489.0	5459.3	5348.0	5210.8	4984.6	4847.4	4643.4	4428.3	3897.9	2818.7	2173.3
35°	5856.1	5826.5	5696.7	5522.4	5325.8	5207.1	4973.5	4673.0	4172.4	2993.0	2251.2
37.5°	6134.3	6100.9	5978.5	5807.9	5633.6	5578.0	5377.7	4984.6	4483.9	3211.8	2347.7
40°	6290.1	6249.3	6167.7	6049.0	5904.4	5878.4	5793.1	5370.3	4877.0	3478.8	2488.6
42.5°	6308.6	6271.5	6227.0	6215.9	6204.8	6227.0	6267.8	5807.9	5325.8	3834.9	2696.3
45°	6145.4	6123.2	6126.9	6253.0	6427.3	6631.3	6876.1	6453.3	5930.3	4513.6	3163.6
47.5°	5796.8	5785.7	5867.3	6078.7	6468.1	6931.7	7625.2	7558.5	7361.9	5607.7	3764.4
50°	5233.1	5214.5	5388.8	5722.6	6278.9	7031.8	8129.6	8860.3	9023.4	6457.0	4157.5
52.5°	4424.6	4446.8	4717.6	5173.7	5845.0	6924.3	8337.3	9394.3	9824.5	7083.7	4457.9
55°	3597.5	3564.1	3808.9	4372.6	5203.4	6531.1	8378.1	9702.1	10343.8	7662.3	4750.9
57.5°	2622.1	2703.7	2963.3	3475.1	4376.3	5819.1	8140.7	9913.5	11041.0	8240.9	5021.7
60°	1776.5	1776.5	2006.4	2518.3	3382.4	4954.9	7506.5	9835.7	11649.2	8693.4	5081.0
62.5°	1131.2	1120.0	1305.5	1668.9	2421.8	3849.7	6557.1	9346.1	11864.4	8800.9	4832.5
65°	715.8	730.6	797.4	1019.9	1550.3	2733.4	5262.7	8370.7	11512.0	8552.4	4398.6
67.5°	574.9	578.6	611.9	704.7	953.2	1754.2	3901.6	7024.4	10670.1	7925.6	3890.5
70°	508.1	515.5	522.9	556.3	652.7	1108.9	2562.8	5655.9	9290.5	6835.3	3345.3
72.5°	463.6	471.0	478.4	485.8	537.8	723.2	1513.2	4287.3	7495.4	5251.6	2551.6
75°	426.5	433.9	433.9	437.6	467.3	537.8	830.8	2955.9	5218.2	3267.4	1591.1
77.5°	382.0	385.7	385.7	393.1	422.8	422.8	515.5	1828.4	2896.5	1479.8	804.8
80°	322.7	330.1	330.1	341.2	370.9	326.4	344.9	934.6	1201.6	608.2	359.8
82.5°	237.4	252.2	259.6	278.2	296.7	248.5	248.5	471.0	508.1	270.7	192.9
85°	129.8	133.5	192.9	207.7	218.8	148.4	166.9	233.7	252.2	118.7	96.4
87.5°	37.1	40.8	92.7	115.0	103.8	63.0	70.5	89.0	89.0	33.4	26.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1194.2	1164.6	1138.6	1120.0	1101.5	1090.4	1086.7	1079.3	1079.3	1083.0
5°	1209.1	1157.1	1116.3	1094.1	1079.3	1071.8	1068.1	1068.1	1071.8	1071.8
7.5°	1246.1	1168.3	1131.2	1112.6	1097.8	1090.4	1090.4	1086.7	1090.4	1090.4
10°	1298.1	1201.6	1160.8	1138.6	1127.5	1116.3	1112.6	1108.9	1108.9	1108.9
12.5°	1353.7	1238.7	1194.2	1168.3	1149.7	1134.9	1127.5	1120.0	1116.3	1116.3
15°	1405.6	1275.8	1216.5	1186.8	1160.8	1138.6	1123.8	1112.6	1108.9	1108.9
17.5°	1461.3	1301.8	1231.3	1190.5	1157.1	1127.5	1108.9	1094.1	1086.7	1086.7
20°	1520.6	1320.3	1231.3	1179.4	1134.9	1105.2	1083.0	1068.1	1053.3	1053.3
22.5°	1568.8	1327.7	1216.5	1153.4	1108.9	1071.8	1049.6	1031.0	1019.9	1019.9
25°	1609.6	1320.3	1183.1	1112.6	1060.7	1027.3	1005.1	990.2	979.1	979.1
27.5°	1635.6	1290.7	1142.3	1068.1	1019.9	986.5	971.7	956.9	949.4	949.4
30°	1650.4	1253.6	1090.4	1019.9	971.7	953.2	945.7	930.9	919.8	916.1
32.5°	1657.8	1197.9	1038.5	971.7	938.3	930.9	930.9	912.4	897.5	893.8
35°	1650.4	1138.6	986.5	930.9	919.8	923.5	916.1	893.8	875.3	867.9
37.5°	1639.3	1068.1	930.9	901.2	912.4	919.8	897.5	867.9	838.2	830.8
40°	1631.9	1005.1	886.4	871.6	904.9	908.6	867.9	812.2	790.0	782.6
42.5°	1668.9	942.0	845.6	849.3	886.4	890.1	815.9	790.0	775.1	771.4
45°	1795.0	886.4	812.2	834.5	864.1	849.3	790.0	786.3	775.1	771.4
47.5°	1891.5	845.6	797.4	823.3	845.6	793.7	786.3	782.6	771.4	767.7
50°	1924.9	819.6	793.7	815.9	819.6	767.7	778.8	778.8	767.7	764.0
52.5°	1928.6	804.8	801.1	812.2	778.8	756.6	771.4	771.4	760.3	756.6
55°	1943.4	797.4	804.8	812.2	734.3	741.8	756.6	760.3	749.2	745.5
57.5°	1913.7	786.3	812.2	815.9	715.8	726.9	741.8	741.8	741.8	741.8
60°	1798.8	764.0	808.5	808.5	701.0	708.4	723.2	730.6	734.3	734.3
62.5°	1587.4	719.5	786.3	786.3	686.1	693.5	712.1	712.1	723.2	723.2
65°	1320.3	656.5	741.8	738.0	671.3	678.7	701.0	693.5	712.1	715.8
67.5°	1101.5	578.6	675.0	682.4	656.5	675.0	689.8	663.9	701.0	701.0
70°	879.0	485.8	586.0	619.4	630.5	678.7	667.6	626.8	675.0	663.9
72.5°	682.4	411.7	482.1	541.5	600.8	675.0	619.4	574.9	604.5	586.0
75°	497.0	341.2	396.8	448.8	560.0	663.9	571.2	504.4	504.4	497.0
77.5°	348.6	278.2	319.0	356.0	519.2	634.2	511.8	433.9	415.4	411.7
80°	237.4	218.8	252.2	274.4	459.9	574.9	441.3	359.8	326.4	319.0
82.5°	155.8	155.8	170.6	185.4	356.0	478.4	344.9	267.0	344.9	330.1
85°	89.0	92.7	92.7	107.6	196.6	337.5	244.8	267.0	159.5	148.4
87.5°	29.7	29.7	29.7	29.7	40.8	137.2	103.8	96.4	37.1	33.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)