

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: P572978

Luminaire Tested: **ARCH-S-PA2-20-730-U-T2R**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572978  
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-PA2-20-730-U-T2R  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3375 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

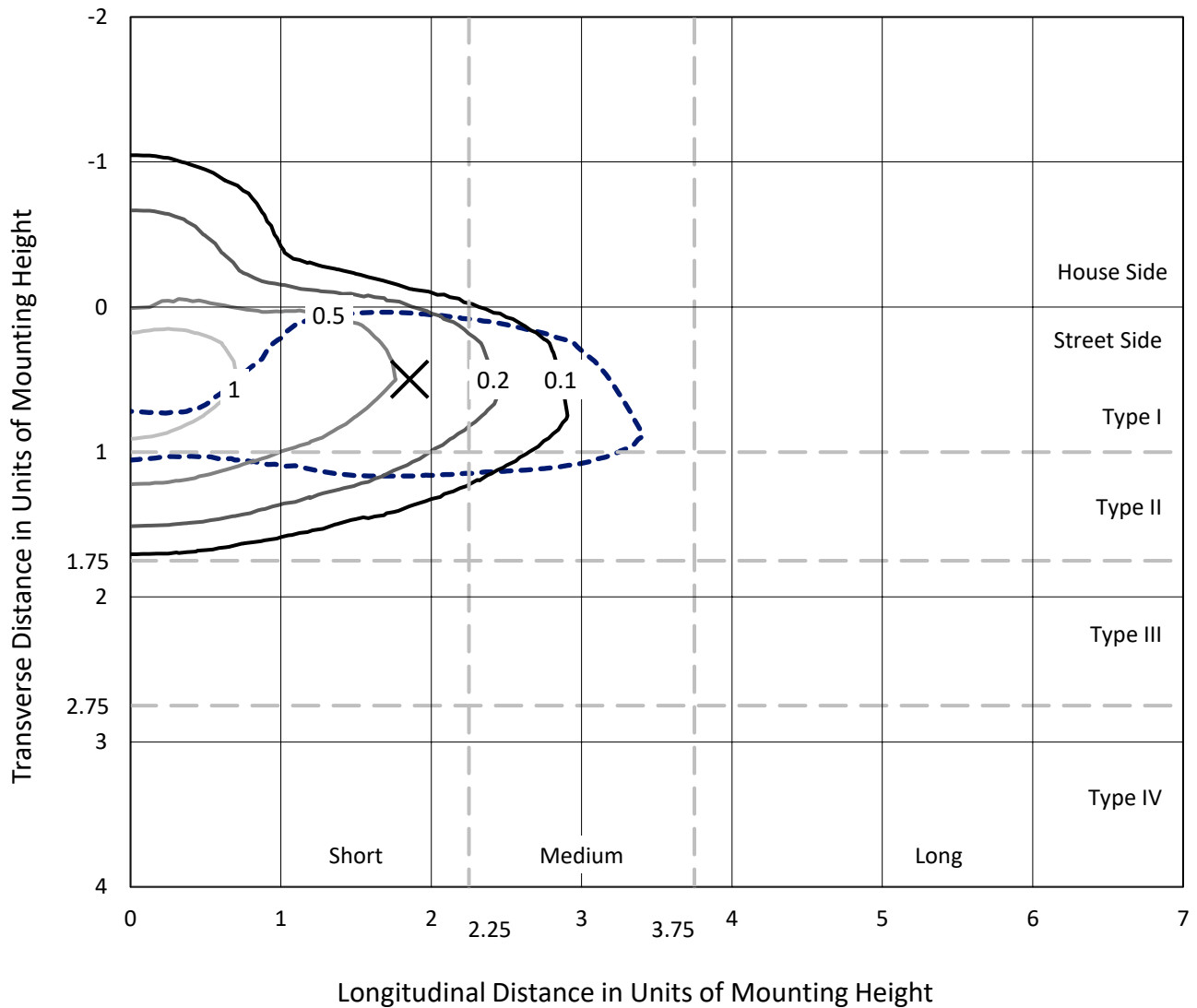
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

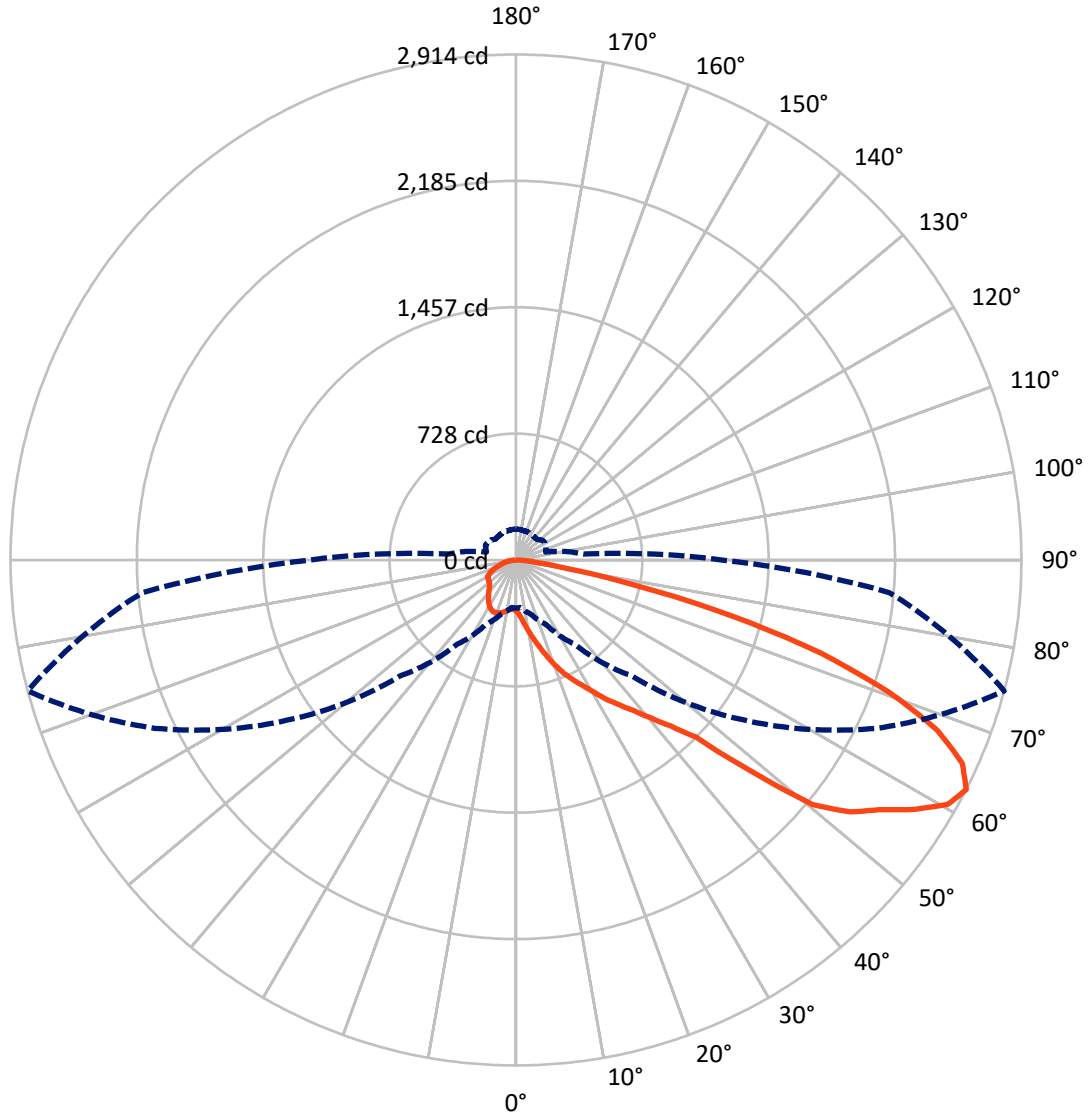
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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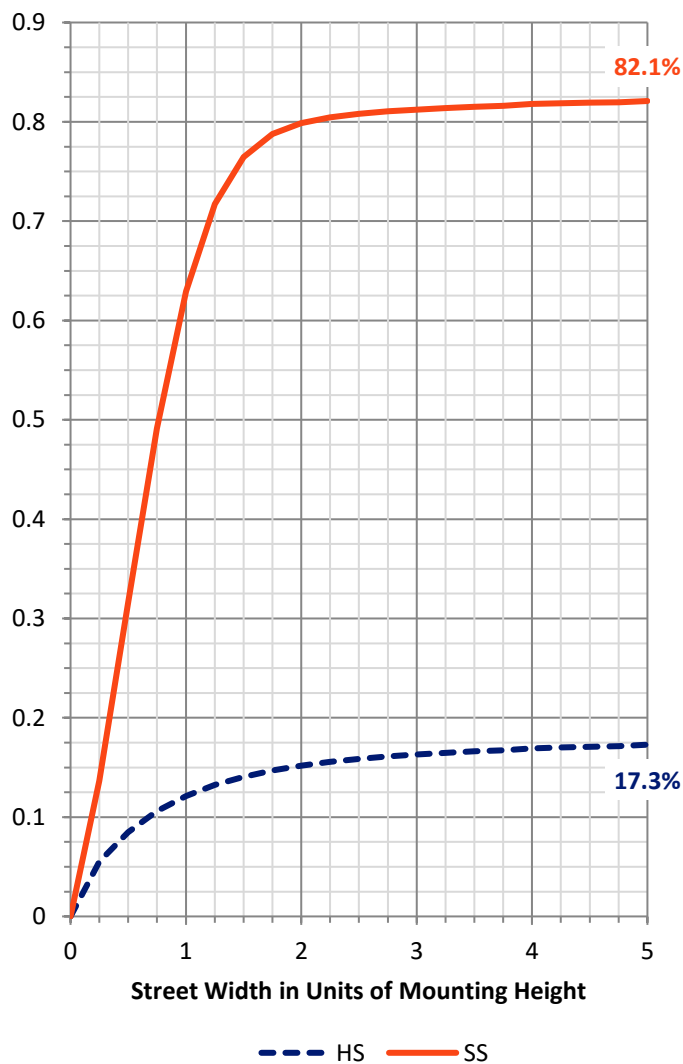
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	595.3	0.0	595.3
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	2779.7	0.0	2779.7
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	3375.0	0.0	3375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	1.0
10°-20°	139.7	4.1
20°-30°	276.3	8.2
30°-40°	460.5	13.6
40°-50°	679.6	20.1
50°-60°	816.9	24.2
60°-70°	634.9	18.8
70°-80°	280.9	8.3
80°-90°	50.9	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°	3375.0	100.0
0°-180°	3375.0	100.0

**Coefficient of Utilization**



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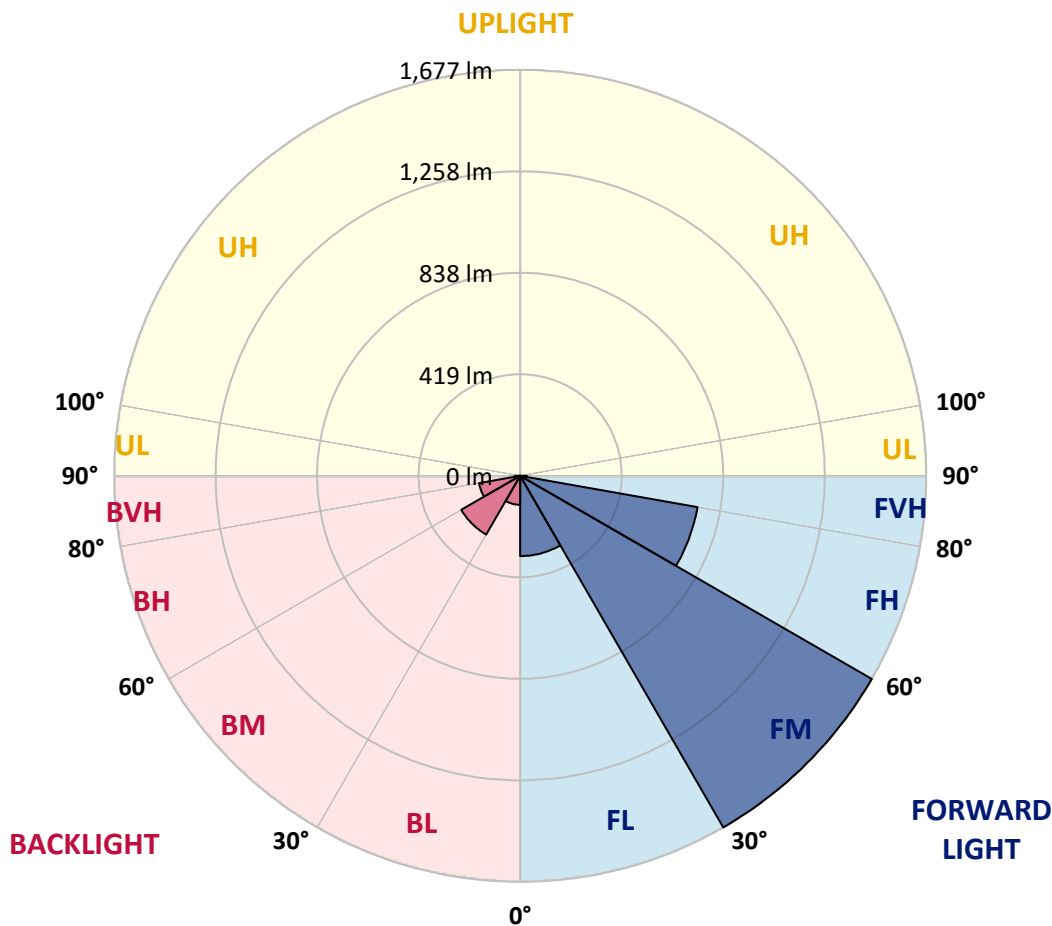
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	331.5	9.8			
FM (30°-60°)	1676.7	49.7			
FH (60°-80°)	743.6	22.0			G1/1800
FVH (80°-90°)	28.0	0.8			G1/100
BL (0°-30°)	119.8	3.5	B1/500		
BM (30°-60°)	280.4	8.3	B1/1000		
BH (60°-80°)	172.2	5.1	B1/500		G1/500
BVH (80°-90°)	22.9	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2
2.5°	376.2	365.2	365.2	353.4	354.3	344.3	333.4	322.4	310.6	301.5	296.9
5°	491.8	483.6	480.9	467.2	445.4	420.8	394.4	367.1	338.8	317.0	306.0
7.5°	600.2	593.8	590.2	574.7	544.7	518.2	476.3	426.3	378.0	337.0	320.6
10°	680.4	675.8	668.5	661.2	639.4	616.6	564.7	493.7	422.6	361.6	337.0
12.5°	738.7	732.3	732.3	731.4	716.8	695.8	647.6	571.1	474.5	388.9	355.2
15°	777.8	776.9	779.6	785.1	781.5	767.8	719.5	642.1	527.4	419.9	376.2
17.5°	807.0	803.3	808.8	823.4	834.3	828.8	788.8	710.4	585.6	453.6	398.9
20°	838.8	831.6	838.8	857.1	870.7	878.9	859.8	776.0	648.5	490.0	420.8
22.5°	899.9	899.0	895.3	900.8	909.9	924.5	913.5	842.5	709.5	526.4	446.3
25°	1009.2	999.1	989.1	977.3	967.3	971.8	962.7	904.4	765.1	566.5	468.2
27.5°	1131.2	1120.3	1102.1	1072.9	1045.6	1029.2	1010.1	958.2	818.8	602.9	489.1
30°	1243.2	1239.6	1212.3	1180.4	1133.0	1103.0	1066.5	1020.1	883.5	643.0	511.0
32.5°	1348.0	1340.7	1313.4	1279.7	1224.1	1190.4	1140.3	1087.5	957.2	692.2	533.7
35°	1438.2	1430.9	1399.0	1356.2	1307.9	1278.8	1221.4	1147.6	1024.6	735.0	552.9
37.5°	1506.5	1498.3	1468.2	1426.3	1383.5	1369.8	1320.7	1224.1	1101.2	788.8	576.5
40°	1544.7	1534.7	1514.7	1485.5	1450.0	1443.6	1422.7	1318.8	1197.7	854.3	611.1
42.5°	1549.3	1540.2	1529.2	1526.5	1523.8	1529.2	1539.2	1426.3	1307.9	941.8	662.2
45°	1509.2	1503.7	1504.6	1535.6	1578.4	1628.5	1688.6	1584.8	1456.4	1108.4	776.9
47.5°	1423.6	1420.8	1440.9	1492.8	1588.4	1702.3	1872.6	1856.2	1807.9	1377.1	924.5
50°	1285.1	1280.6	1323.4	1405.4	1542.0	1726.9	1996.5	2175.9	2216.0	1585.7	1021.0
52.5°	1086.6	1092.0	1158.5	1270.6	1435.4	1700.5	2047.5	2307.1	2412.7	1739.6	1094.8
55°	883.5	875.3	935.4	1073.8	1277.8	1603.9	2057.5	2382.6	2540.2	1881.7	1166.7
57.5°	643.9	664.0	727.7	853.4	1074.7	1429.0	1999.2	2434.6	2711.4	2023.8	1233.2
60°	436.3	436.3	492.7	618.4	830.6	1216.8	1843.5	2415.4	2860.8	2134.9	1247.8
62.5°	277.8	275.1	320.6	409.9	594.8	945.4	1610.3	2295.2	2913.6	2161.3	1186.8
65°	175.8	179.4	195.8	250.5	380.7	671.3	1292.4	2055.7	2827.1	2100.3	1080.2
67.5°	141.2	142.1	150.3	173.1	234.1	430.8	958.2	1725.1	2620.4	1946.4	955.4
70°	124.8	126.6	128.4	136.6	160.3	272.3	629.4	1389.0	2281.5	1678.6	821.5
72.5°	113.8	115.7	117.5	119.3	132.1	177.6	371.6	1052.9	1840.7	1289.7	626.6
75°	104.7	106.6	106.6	107.5	114.8	132.1	204.0	725.9	1281.5	802.4	390.7
77.5°	93.8	94.7	94.7	96.5	103.8	103.8	126.6	449.0	711.3	363.4	197.6
80°	79.2	81.1	81.1	83.8	91.1	80.2	84.7	229.5	295.1	149.4	88.3
82.5°	58.3	61.9	63.8	68.3	72.9	61.0	61.0	115.7	124.8	66.5	47.4
85°	31.9	32.8	47.4	51.0	53.7	36.4	41.0	57.4	61.9	29.1	23.7
87.5°	9.1	10.0	22.8	28.2	25.5	15.5	17.3	21.9	21.9	8.2	6.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2	294.2
2.5°	293.3	286.0	279.6	275.1	270.5	267.8	266.9	265.0	265.0	266.0
5°	296.9	284.2	274.2	268.7	265.0	263.2	262.3	262.3	263.2	263.2
7.5°	306.0	286.9	277.8	273.2	269.6	267.8	267.8	266.9	267.8	267.8
10°	318.8	295.1	285.1	279.6	276.9	274.2	273.2	272.3	272.3	272.3
12.5°	332.4	304.2	293.3	286.9	282.3	278.7	276.9	275.1	274.2	274.2
15°	345.2	313.3	298.7	291.5	285.1	279.6	276.0	273.2	272.3	272.3
17.5°	358.9	319.7	302.4	292.4	284.2	276.9	272.3	268.7	266.9	266.9
20°	373.4	324.2	302.4	289.6	278.7	271.4	266.0	262.3	258.7	258.7
22.5°	385.3	326.1	298.7	283.3	272.3	263.2	257.8	253.2	250.5	250.5
25°	395.3	324.2	290.5	273.2	260.5	252.3	246.8	243.2	240.5	240.5
27.5°	401.7	317.0	280.5	262.3	250.5	242.3	238.6	235.0	233.2	233.2
30°	405.3	307.8	267.8	250.5	238.6	234.1	232.3	228.6	225.9	225.0
32.5°	407.1	294.2	255.0	238.6	230.4	228.6	228.6	224.1	220.4	219.5
35°	405.3	279.6	242.3	228.6	225.9	226.8	225.0	219.5	214.9	213.1
37.5°	402.6	262.3	228.6	221.3	224.1	225.9	220.4	213.1	205.8	204.0
40°	400.8	246.8	217.7	214.0	222.2	223.1	213.1	199.5	194.0	192.2
42.5°	409.9	231.3	207.7	208.6	217.7	218.6	200.4	194.0	190.4	189.4
45°	440.8	217.7	199.5	204.9	212.2	208.6	194.0	193.1	190.4	189.4
47.5°	464.5	207.7	195.8	202.2	207.7	194.9	193.1	192.2	189.4	188.5
50°	472.7	201.3	194.9	200.4	201.3	188.5	191.3	191.3	188.5	187.6
52.5°	473.6	197.6	196.7	199.5	191.3	185.8	189.4	189.4	186.7	185.8
55°	477.3	195.8	197.6	199.5	180.3	182.2	185.8	186.7	184.0	183.1
57.5°	470.0	193.1	199.5	200.4	175.8	178.5	182.2	182.2	182.2	182.2
60°	441.7	187.6	198.6	198.6	172.1	174.0	177.6	179.4	180.3	180.3
62.5°	389.8	176.7	193.1	193.1	168.5	170.3	174.9	174.9	177.6	177.6
65°	324.2	161.2	182.2	181.2	164.9	166.7	172.1	170.3	174.9	175.8
67.5°	270.5	142.1	165.8	167.6	161.2	165.8	169.4	163.0	172.1	172.1
70°	215.9	119.3	143.9	152.1	154.8	166.7	163.9	153.9	165.8	163.0
72.5°	167.6	101.1	118.4	133.0	147.5	165.8	152.1	141.2	148.5	143.9
75°	122.0	83.8	97.5	110.2	137.5	163.0	140.3	123.9	123.9	122.0
77.5°	85.6	68.3	78.3	87.4	127.5	155.7	125.7	106.6	102.0	101.1
80°	58.3	53.7	61.9	67.4	112.9	141.2	108.4	88.3	80.2	78.3
82.5°	38.3	38.3	41.9	45.5	87.4	117.5	84.7	65.6	84.7	81.1
85°	21.9	22.8	22.8	26.4	48.3	82.9	60.1	65.6	39.2	36.4
87.5°	7.3	7.3	7.3	7.3	10.0	33.7	25.5	23.7	9.1	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)