

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: P348940

Luminaire Tested: **ARCH-N-PA1-19-750-U-T2U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-19-750-U-T2U  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3011 lumens  
Efficiency: N/A  
Efficacy: 158.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 19  
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: 28.75 FT

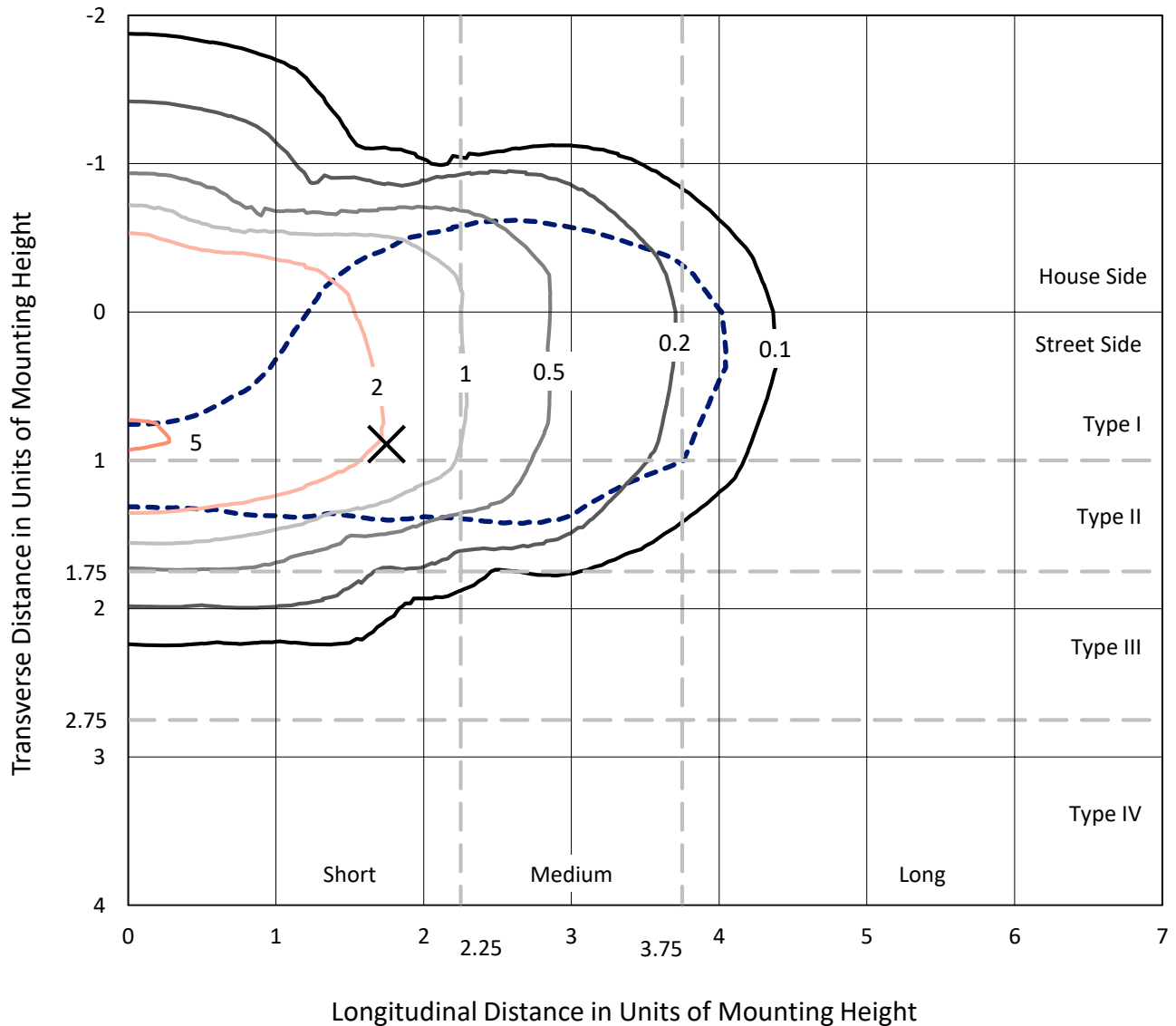


REPORT NUMBER: P348940

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

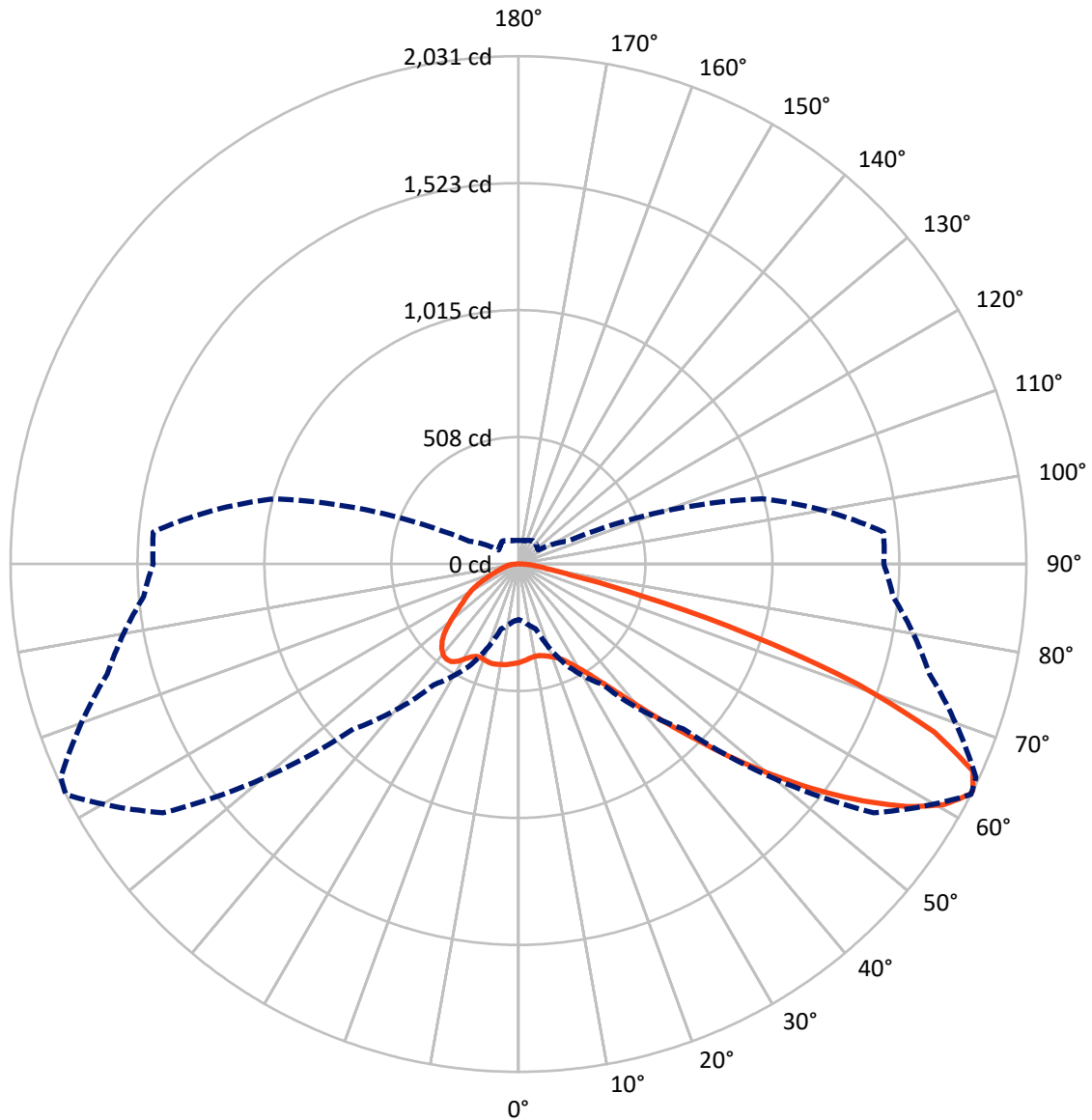
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P348940  
CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P348940

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2U

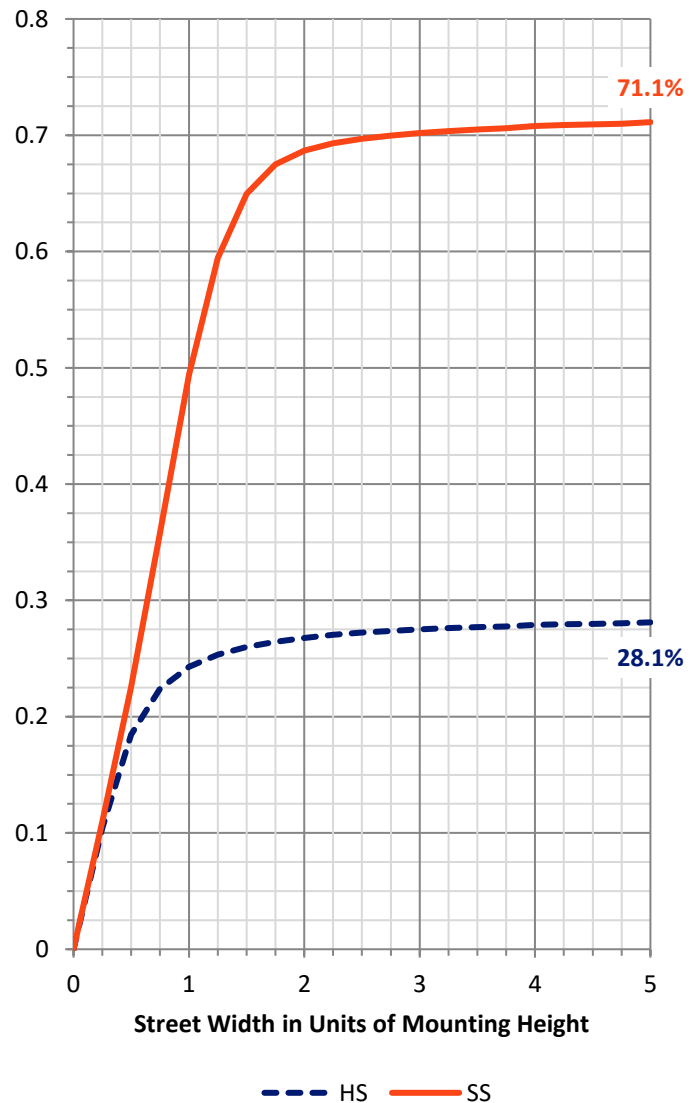
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	859.6	0.0	859.6
	% Fixture	28.5	0.0	28.5
<b>Street Side</b>	Lumens	2151.4	0.0	2151.4
	% Fixture	71.5	0.0	71.5
<b>Total</b>	Lumens	3011.0	0.0	3011.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.4	1.2
10°-20°	110.4	3.7
20°-30°	193.8	6.4
30°-40°	326.7	10.9
40°-50°	572.3	19.0
50°-60°	739.7	24.6
60°-70°	640.3	21.3
70°-80°	332.4	11.0
80°-90°	57.9	1.9
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°	3011.0	100.0
0°-180°	3011.0	100.0



REPORT NUMBER: P348940

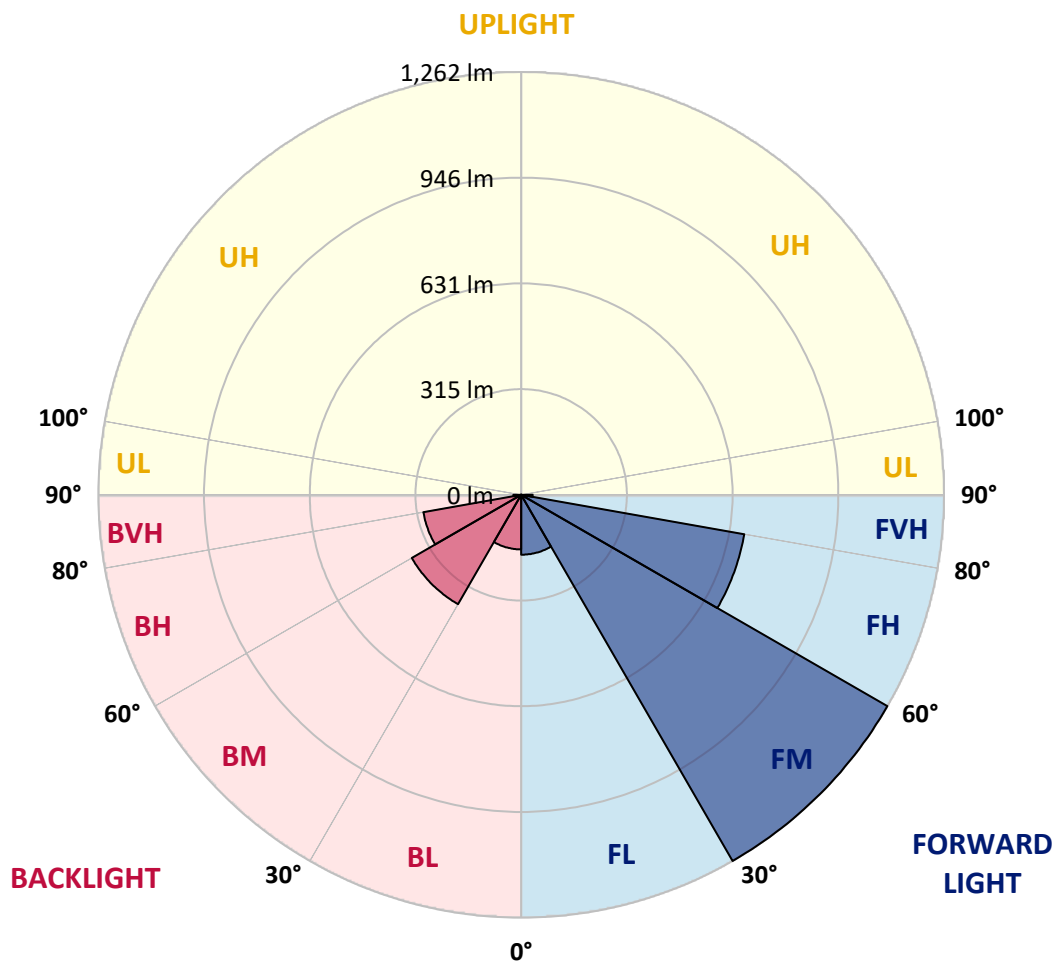
CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.8	5.9			
FM (30°-60°)	1262.0	41.9			
FH (60°-80°)	676.2	22.5			G1/1800
FVH (80°-90°)	34.5	1.1			G1/100
BL (0°-30°)	162.8	5.4	B1/500		
BM (30°-60°)	376.8	12.5	B1/1000		
BH (60°-80°)	296.5	9.8	B1/500		G1/500
BVH (80°-90°)	23.4	0.8			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





REPORT NUMBER: P348940

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2
2.5°	384.9	383.8	385.8	386.6	386.3	388.0	388.0	388.3	388.3	389.7	391.1
5°	373.7	373.1	375.1	376.5	377.6	380.1	381.8	382.7	383.5	385.5	388.9
7.5°	362.9	362.1	364.9	366.0	367.7	371.4	375.3	377.6	378.7	383.0	387.7
10°	354.2	353.9	356.2	357.3	359.3	364.6	370.3	375.1	375.9	381.5	386.1
12.5°	350.0	349.4	352.0	353.4	356.7	363.2	369.7	375.6	377.0	383.5	387.5
15°	353.4	353.9	356.2	356.5	360.4	367.2	374.5	380.4	381.8	388.3	391.1
17.5°	369.4	369.1	370.6	370.0	371.4	374.8	382.7	387.5	389.2	393.9	396.2
20°	398.5	397.6	398.7	395.1	388.9	387.2	392.0	397.3	397.9	400.7	399.3
22.5°	442.7	443.5	441.0	431.7	416.8	409.7	406.6	408.3	410.3	410.0	405.8
25°	500.5	503.3	498.5	482.1	457.1	440.7	429.5	426.9	428.3	424.4	417.9
27.5°	576.3	578.5	568.1	542.7	508.9	484.7	462.1	453.4	453.4	445.0	433.1
30°	659.7	661.1	644.5	612.3	573.2	537.1	503.8	486.9	485.5	468.9	450.3
32.5°	761.1	757.2	737.5	697.7	648.4	598.8	556.0	530.3	527.5	502.4	478.8
35°	892.2	892.2	851.3	805.9	745.9	682.8	626.4	586.7	583.9	555.4	524.7
37.5°	1034.5	1033.9	997.0	934.4	862.6	785.4	710.1	660.5	654.0	623.6	589.2
40°	1176.2	1171.4	1141.5	1082.1	1005.4	917.2	813.5	755.8	752.7	709.3	666.2
42.5°	1279.9	1275.4	1261.3	1221.6	1171.1	1107.4	948.0	869.9	865.4	810.7	758.0
45°	1337.1	1330.6	1328.7	1329.2	1334.9	1334.6	1113.9	1004.9	989.1	925.7	855.5
47.5°	1324.1	1308.9	1329.2	1381.3	1469.0	1526.5	1307.2	1165.2	1135.9	1045.2	959.5
50°	1219.6	1212.3	1255.7	1361.9	1542.0	1676.9	1520.0	1331.8	1290.3	1158.2	1057.8
52.5°	1036.2	1050.2	1103.8	1254.8	1528.7	1768.0	1713.3	1504.8	1447.3	1265.8	1143.2
55°	824.8	842.6	918.1	1078.1	1406.1	1769.1	1852.8	1672.4	1621.2	1377.1	1230.6
57.5°	600.2	625.3	719.7	866.5	1191.1	1648.2	1921.5	1829.4	1770.8	1486.7	1316.0
60°	377.0	394.8	497.6	667.8	910.5	1381.3	1904.4	1955.1	1906.6	1590.2	1413.5
62.5°	242.9	251.4	295.9	476.8	634.9	1013.0	1777.3	2027.2	2006.4	1684.6	1487.0
63°	222.6	229.9	268.0	440.7	588.7	933.3	1734.4	2030.9	2018.5	1702.3	1504.2
65°	159.2	167.1	186.8	302.9	434.5	626.1	1486.2	1996.8	2010.6	1731.9	1527.6
67.5°	125.7	128.2	137.2	184.0	308.3	355.6	1000.1	1793.0	1853.6	1700.3	1492.9
70°	112.4	114.4	124.6	141.2	233.3	230.5	521.6	1441.7	1567.0	1592.7	1405.6
72.5°	98.1	99.5	111.9	133.0	178.1	176.1	226.8	969.4	1121.8	1395.4	1284.7
75°	81.2	82.6	93.0	118.1	150.8	139.2	142.0	506.7	643.1	1093.9	1126.6
77.5°	66.8	67.6	76.4	95.0	132.7	107.4	109.9	213.0	312.5	745.6	889.6
80°	48.5	48.8	56.9	72.1	101.4	96.9	81.7	116.1	141.7	408.6	559.6
82.5°	33.8	34.1	42.6	50.4	69.9	96.7	59.5	77.8	85.1	188.2	249.1
85°	23.7	23.1	29.0	33.3	44.2	58.6	45.4	49.9	52.7	81.4	67.1
87.5°	10.4	10.1	16.3	17.8	22.3	27.1	36.1	26.2	27.9	39.5	21.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348940

CATALOG NUMBER: ARCH-N-PA1-19-750-U-T2U

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2	394.2
2.5°	391.4	392.5	394.2	396.8	398.7	399.6	401.3	401.6	404.1	401.8	402.1
5°	390.8	392.3	395.9	400.4	403.5	405.8	410.0	411.4	414.0	412.8	412.5
7.5°	390.0	392.5	397.9	404.4	409.2	412.8	416.8	419.3	421.8	421.3	420.7
10°	388.9	392.0	399.6	406.1	412.8	416.8	419.6	419.9	420.7	420.2	418.7
12.5°	389.7	393.1	401.8	408.3	415.4	418.2	417.3	413.1	409.4	406.3	405.8
15°	392.5	396.5	404.7	410.6	416.2	414.5	409.4	400.1	393.4	389.4	389.7
17.5°	395.4	398.7	404.9	409.7	412.5	407.5	399.6	391.7	388.6	385.5	384.9
20°	397.9	398.5	402.4	406.6	406.3	402.4	395.1	385.5	379.3	374.2	374.5
22.5°	401.8	399.6	399.9	402.4	405.5	401.8	384.6	368.0	358.7	352.8	352.5
25°	410.9	406.1	401.6	403.0	414.8	391.4	362.4	340.7	332.5	327.2	327.7
27.5°	423.3	416.8	407.8	415.4	421.8	370.8	330.5	308.3	302.6	297.0	298.4
30°	436.8	427.5	416.5	442.1	414.0	338.2	291.1	270.8	265.7	260.4	261.5
32.5°	461.0	447.2	432.8	474.3	395.6	298.4	249.7	231.4	228.0	224.6	224.9
35°	501.3	485.0	469.5	498.8	372.0	257.0	212.5	199.5	196.7	192.7	192.7
37.5°	560.8	535.1	527.0	511.7	339.6	218.4	185.1	176.4	170.5	165.1	165.1
40°	629.8	599.4	592.9	515.7	297.3	186.3	166.0	158.4	150.5	142.6	143.2
42.5°	713.8	672.6	657.7	510.3	246.0	165.7	152.4	143.7	136.1	129.3	128.2
45°	808.5	756.3	718.6	494.8	199.5	153.0	143.7	133.3	123.7	117.8	116.7
47.5°	905.1	847.1	772.4	463.8	166.8	144.0	137.8	123.1	116.4	112.4	111.9
50°	997.5	937.0	816.9	415.1	147.9	137.5	129.1	118.4	112.7	109.3	109.1
52.5°	1079.5	1022.3	854.4	364.6	135.3	132.2	125.1	116.1	110.2	107.1	106.5
55°	1157.6	1108.9	891.6	319.6	124.3	123.1	123.1	113.8	107.4	104.5	104.0
57.5°	1243.3	1207.2	929.1	286.6	114.4	116.7	120.6	111.3	104.3	101.7	101.4
60°	1342.2	1321.0	968.5	257.6	105.7	109.6	116.9	107.9	100.6	98.6	98.1
62.5°	1443.3	1443.9	1002.6	222.6	98.3	104.3	112.7	104.8	97.2	95.8	95.5
63°	1461.1	1466.2	1007.4	215.0	96.7	103.1	111.6	103.7	96.4	95.0	94.7
65°	1504.8	1527.0	1011.4	182.9	90.5	98.9	107.4	100.0	92.7	92.4	91.9
67.5°	1494.3	1530.7	986.8	143.4	83.4	93.0	101.4	94.7	88.2	88.2	87.1
70°	1416.6	1440.2	911.6	110.7	78.1	86.8	94.4	89.0	82.3	82.8	80.6
72.5°	1297.4	1271.4	749.9	86.5	71.6	79.7	86.2	81.7	75.8	75.2	72.7
75°	1122.7	1037.3	537.1	69.9	63.7	70.4	77.2	73.8	68.5	65.4	64.8
77.5°	855.5	736.3	321.8	59.2	56.9	62.6	66.8	64.2	60.0	56.4	56.6
80°	509.5	424.7	145.1	50.2	49.3	53.5	56.9	54.9	52.1	47.6	46.5
82.5°	206.3	164.3	65.1	40.6	41.7	44.8	47.9	46.2	44.0	42.8	36.4
85°	53.5	51.6	38.0	30.4	32.1	33.5	37.8	37.8	35.8	29.3	27.1
87.5°	15.2	20.3	21.1	19.2	21.7	22.0	26.2	26.2	26.8	18.0	16.3
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)