

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: P348956

Luminaire Tested: **ARCH-N-PA1-30-827-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348956
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-PA1-30-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223 lumens
Efficiency: N/A
Efficacy: 104.0 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

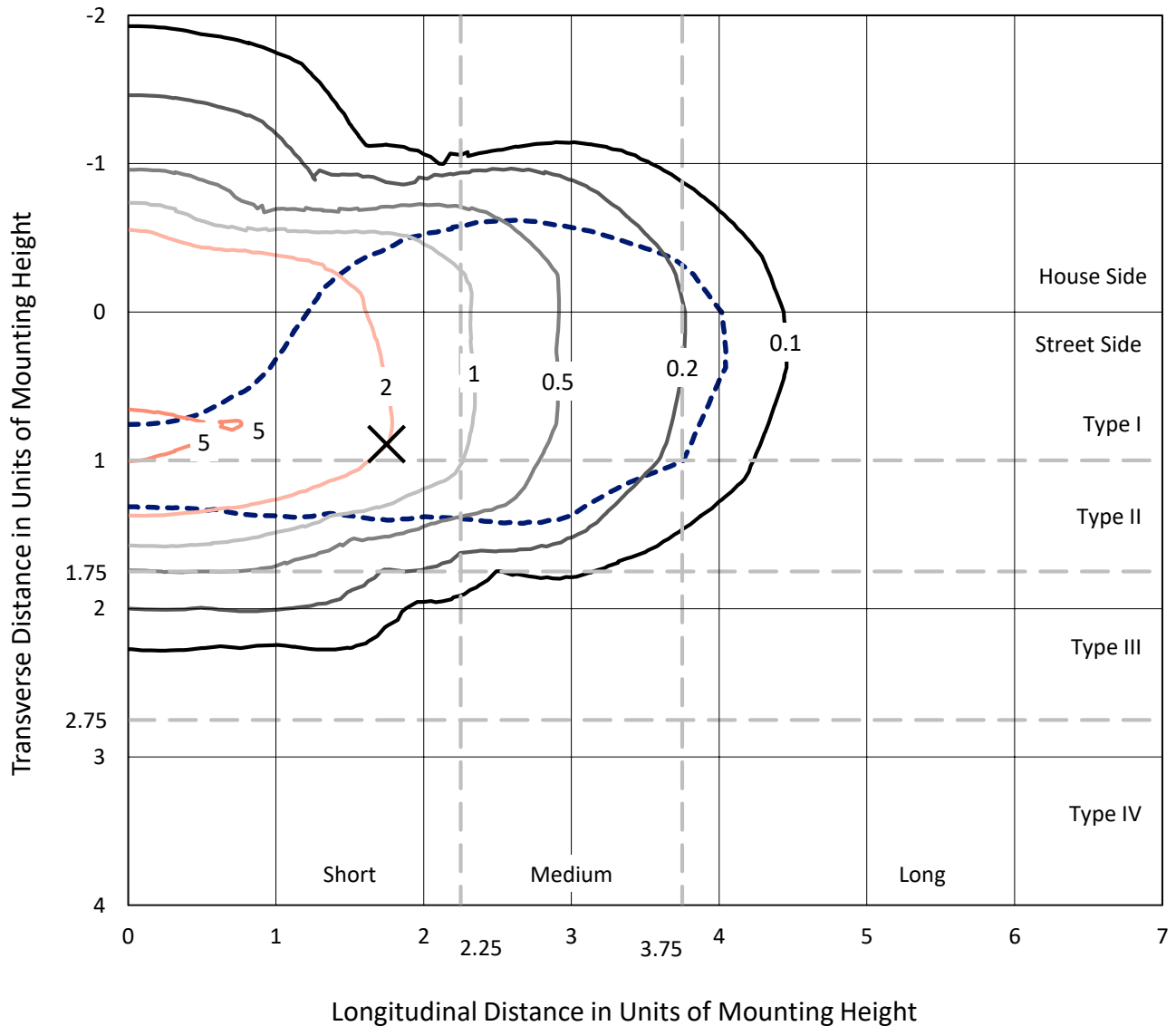
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

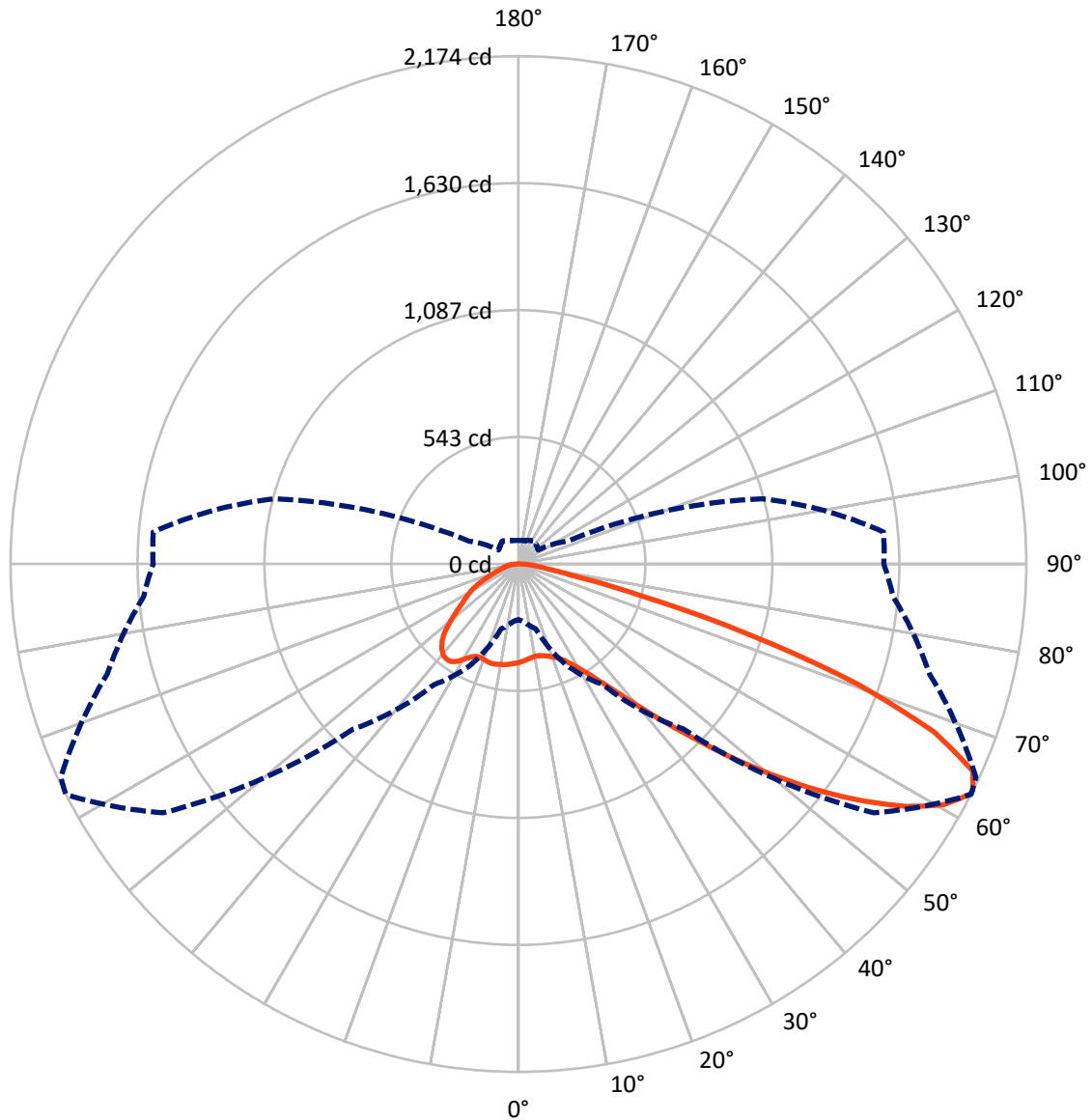
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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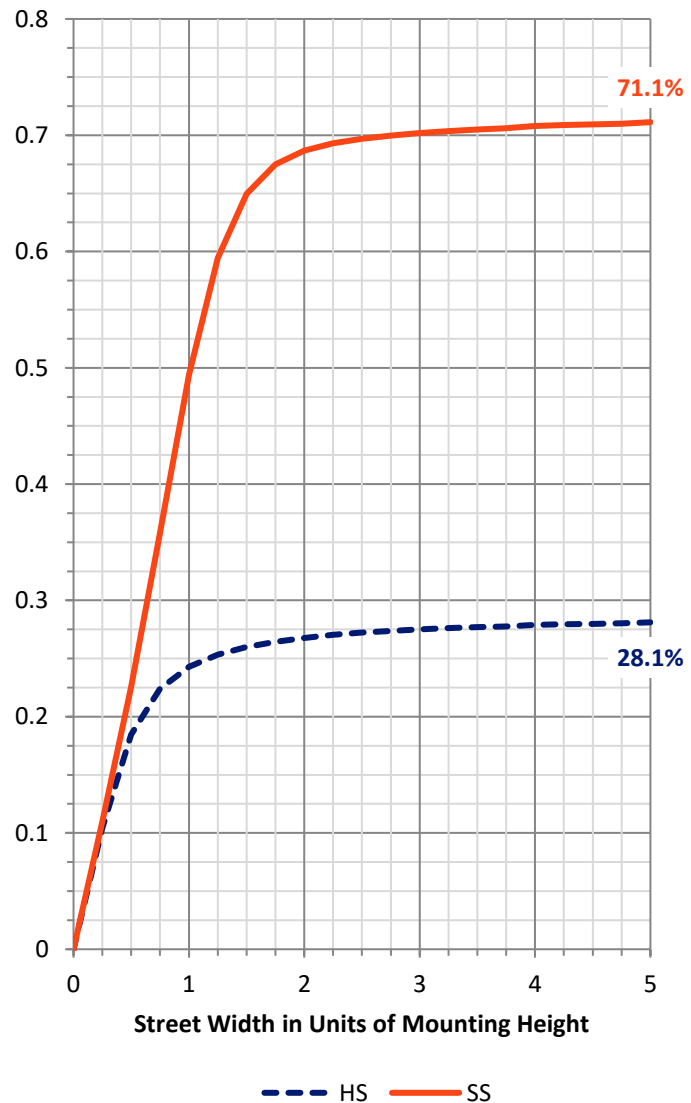
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	920.1	0.0	920.1
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	2302.9	0.0	2302.9
	% Fixture	71.5	0.0	71.5
Total	Lumens	3223.0	0.0	3223.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	1.2
10°-20°	118.1	3.7
20°-30°	207.5	6.4
30°-40°	349.7	10.9
40°-50°	612.6	19.0
50°-60°	791.8	24.6
60°-70°	685.4	21.3
70°-80°	355.8	11.0
80°-90°	62.0	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°	3223.0	100.0
0°-180°	3223.0	100.0



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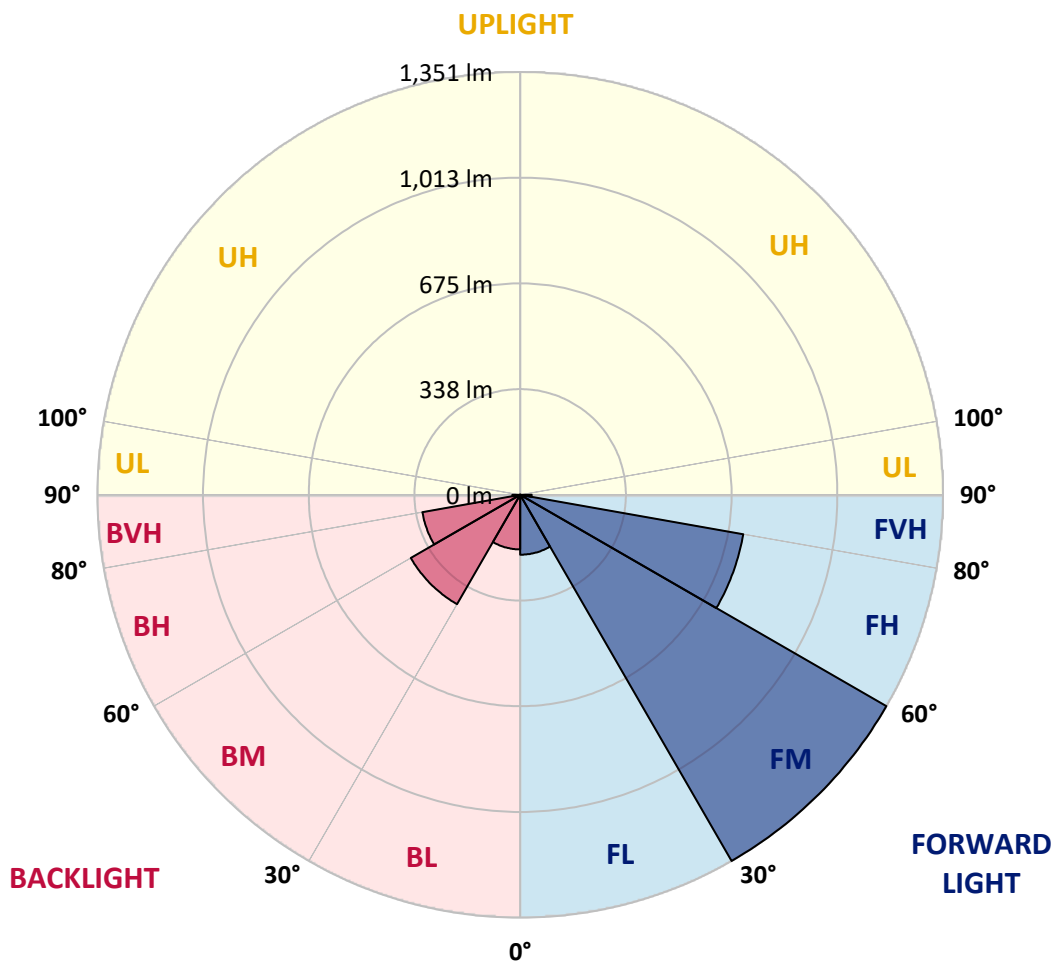
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	191.3	5.9			
FM	(30°-60°)	1350.8	41.9			
FH	(60°-80°)	723.8	22.5			G1/1800
FVH	(80°-90°)	36.9	1.1			G1/100
BL	(0°-30°)	174.3	5.4	B1/500		
BM	(30°-60°)	403.4	12.5	B1/1000		
BH	(60°-80°)	317.4	9.8	B1/500		G1/500
BVH	(80°-90°)	25.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	412.0	410.8	412.9	413.8	413.5	415.3	415.3	415.7	415.7	417.2	418.7
5°	400.0	399.4	401.5	403.0	404.2	406.9	408.7	409.6	410.5	412.6	416.3
7.5°	388.5	387.6	390.6	391.8	393.6	397.6	401.8	404.2	405.4	409.9	415.0
10°	379.2	378.9	381.3	382.5	384.6	390.3	396.3	401.5	402.4	408.4	413.2
12.5°	374.6	374.0	376.7	378.2	381.9	388.8	395.7	402.1	403.6	410.5	414.7
15°	378.2	378.9	381.3	381.6	385.8	393.0	400.9	407.2	408.7	415.7	418.7
17.5°	395.4	395.1	396.6	396.0	397.6	401.2	409.6	414.7	416.6	421.7	424.1
20°	426.5	425.6	426.8	422.9	416.3	414.4	419.6	425.3	425.9	428.9	427.4
22.5°	473.9	474.8	472.1	462.1	446.1	438.6	435.3	437.1	439.2	438.9	434.4
25°	535.7	538.7	533.6	516.1	489.2	471.8	459.7	457.0	458.5	454.3	447.3
27.5°	616.8	619.3	608.1	580.9	544.7	518.8	494.7	485.3	485.3	476.3	463.6
30°	706.1	707.6	689.8	655.4	613.5	574.9	539.3	521.2	519.7	501.9	482.0
32.5°	814.7	810.5	789.4	746.8	694.1	641.0	595.1	567.7	564.7	537.8	512.5
35°	955.0	955.0	911.2	862.7	798.4	730.9	670.5	628.0	625.0	594.5	561.6
37.5°	1107.3	1106.7	1067.2	1000.2	923.3	840.7	760.1	707.0	700.1	667.5	630.7
40°	1259.0	1253.9	1221.9	1158.3	1076.2	981.8	870.8	809.0	805.7	759.2	713.1
42.5°	1370.0	1365.2	1350.1	1307.6	1253.6	1185.4	1014.7	931.1	926.3	867.8	811.4
45°	1431.2	1424.3	1422.2	1422.8	1428.8	1428.5	1192.4	1075.6	1058.7	990.9	915.8
47.5°	1417.4	1401.1	1422.8	1478.6	1572.4	1633.9	1399.3	1247.3	1215.9	1118.8	1027.1
50°	1305.5	1297.6	1344.1	1457.8	1650.5	1795.0	1627.0	1425.5	1381.2	1239.7	1132.3
52.5°	1109.1	1124.2	1181.5	1343.2	1636.4	1892.4	1833.9	1610.7	1549.2	1354.9	1223.7
55°	882.9	901.9	982.7	1154.0	1505.2	1893.7	1983.2	1790.2	1735.3	1474.1	1317.2
57.5°	642.5	669.3	770.4	927.5	1275.0	1764.3	2056.8	1958.2	1895.5	1591.4	1408.6
60°	403.6	422.6	532.7	714.9	974.6	1478.6	2038.4	2092.7	2040.9	1702.1	1513.0
62.5°	260.0	269.1	316.7	510.4	679.6	1084.4	1902.4	2169.9	2147.6	1803.2	1591.7
63°	238.3	246.1	286.9	471.8	630.1	999.0	1856.6	2173.9	2160.6	1822.2	1610.1
65°	170.4	178.9	200.0	324.3	465.1	670.2	1590.8	2137.4	2152.2	1853.8	1635.2
67.5°	134.5	137.2	146.9	197.0	330.0	380.7	1070.5	1919.3	1984.1	1820.1	1598.1
70°	120.4	122.5	133.3	151.1	249.8	246.7	558.3	1543.2	1677.4	1704.8	1504.5
72.5°	105.0	106.5	119.7	142.4	190.6	188.5	242.8	1037.6	1200.8	1493.7	1375.1
75°	86.9	88.4	99.5	126.4	161.4	149.0	152.0	542.3	688.3	1170.9	1205.9
77.5°	71.5	72.4	81.7	101.7	142.1	114.9	117.6	228.0	334.5	798.1	952.3
80°	51.9	52.2	60.9	77.2	108.6	103.8	87.5	124.3	151.7	437.4	599.0
82.5°	36.2	36.5	45.5	54.0	74.8	103.5	63.6	83.3	91.1	201.5	266.6
85°	25.3	24.7	31.1	35.6	47.4	62.7	48.6	53.4	56.4	87.2	71.8
87.5°	11.2	10.9	17.5	19.0	23.8	29.0	38.6	28.1	29.9	42.2	22.6
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°	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0	422.0
2.5°	419.0	420.2	422.0	424.7	426.8	427.7	429.5	429.8	432.5	430.1	430.4
5°	418.4	419.9	423.8	428.6	431.9	434.4	438.9	440.4	443.1	441.9	441.6
7.5°	417.5	420.2	425.9	432.8	438.0	441.9	446.1	448.8	451.5	450.9	450.3
10°	416.3	419.6	427.7	434.7	441.9	446.1	449.1	449.4	450.3	449.7	448.2
12.5°	417.2	420.8	430.1	437.1	444.6	447.6	446.7	442.2	438.3	435.0	434.4
15°	420.2	424.4	433.1	439.5	445.5	443.7	438.3	428.3	421.1	416.9	417.2
17.5°	423.2	426.8	433.4	438.6	441.6	436.2	427.7	419.3	416.0	412.6	412.0
20°	425.9	426.5	430.7	435.3	435.0	430.7	422.9	412.6	406.0	400.6	400.9
22.5°	430.1	427.7	428.0	430.7	434.1	430.1	411.7	393.9	384.0	377.6	377.3
25°	439.8	434.7	429.8	431.3	444.0	419.0	387.9	364.7	355.9	350.2	350.8
27.5°	453.1	446.1	436.5	444.6	451.5	396.9	353.8	330.0	324.0	317.9	319.4
30°	467.5	457.6	445.8	473.3	443.1	362.0	311.6	289.9	284.4	278.7	279.9
32.5°	493.5	478.7	463.3	507.6	423.5	319.4	267.2	247.6	244.0	240.4	240.7
35°	536.6	519.1	502.5	533.9	398.2	275.1	227.4	213.6	210.5	206.3	206.3
37.5°	600.3	572.8	564.1	547.8	363.5	233.8	198.2	188.8	182.5	176.8	176.8
40°	674.2	641.6	634.6	552.0	318.2	199.4	177.7	169.5	161.1	152.6	153.2
42.5°	764.0	720.0	704.0	546.3	263.3	177.4	163.2	153.8	145.7	138.4	137.2
45°	865.4	809.6	769.2	529.7	213.6	163.8	153.8	142.7	132.4	126.1	124.9
47.5°	968.8	906.7	826.8	496.5	178.6	154.1	147.5	131.8	124.6	120.4	119.7
50°	1067.8	1002.9	874.4	444.3	158.4	147.2	138.1	126.7	120.7	117.0	116.7
52.5°	1155.6	1094.3	914.6	390.3	144.8	141.5	133.9	124.3	117.9	114.6	114.0
55°	1239.1	1186.9	954.4	342.1	133.0	131.8	131.8	121.9	114.9	111.9	111.3
57.5°	1330.8	1292.2	994.5	306.8	122.5	124.9	129.1	119.1	111.6	108.9	108.6
60°	1436.7	1414.1	1036.7	275.7	113.1	117.3	125.2	115.5	107.7	105.6	105.0
62.5°	1545.0	1545.6	1073.2	238.3	105.3	111.6	120.7	112.2	104.1	102.6	102.3
63°	1564.0	1569.4	1078.3	230.1	103.5	110.4	119.4	111.0	103.2	101.7	101.3
65°	1610.7	1634.6	1082.6	195.8	96.8	105.9	114.9	107.1	99.2	98.9	98.3
67.5°	1599.6	1638.5	1056.3	153.5	89.3	99.5	108.6	101.3	94.4	94.4	93.2
70°	1516.3	1541.6	975.8	118.5	83.6	92.9	101.0	95.3	88.1	88.7	86.3
72.5°	1388.7	1361.0	802.6	92.6	76.6	85.4	92.3	87.5	81.1	80.5	77.8
75°	1201.7	1110.3	574.9	74.8	68.2	75.4	82.6	79.0	73.3	70.0	69.4
77.5°	915.8	788.2	344.5	63.3	60.9	67.0	71.5	68.8	64.2	60.3	60.6
80°	545.4	454.6	155.3	53.7	52.8	57.3	60.9	58.8	55.8	51.0	49.8
82.5°	220.8	175.9	69.7	43.4	44.6	48.0	51.3	49.5	47.1	45.8	38.9
85°	57.3	55.2	40.7	32.6	34.4	35.9	40.4	40.4	38.3	31.4	29.0
87.5°	16.3	21.7	22.6	20.5	23.2	23.5	28.1	28.1	28.7	19.3	17.5
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)