

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: P348604

Luminaire Tested: **ARCH-N-PA1-19-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
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-T3
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: 3012 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 III - 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

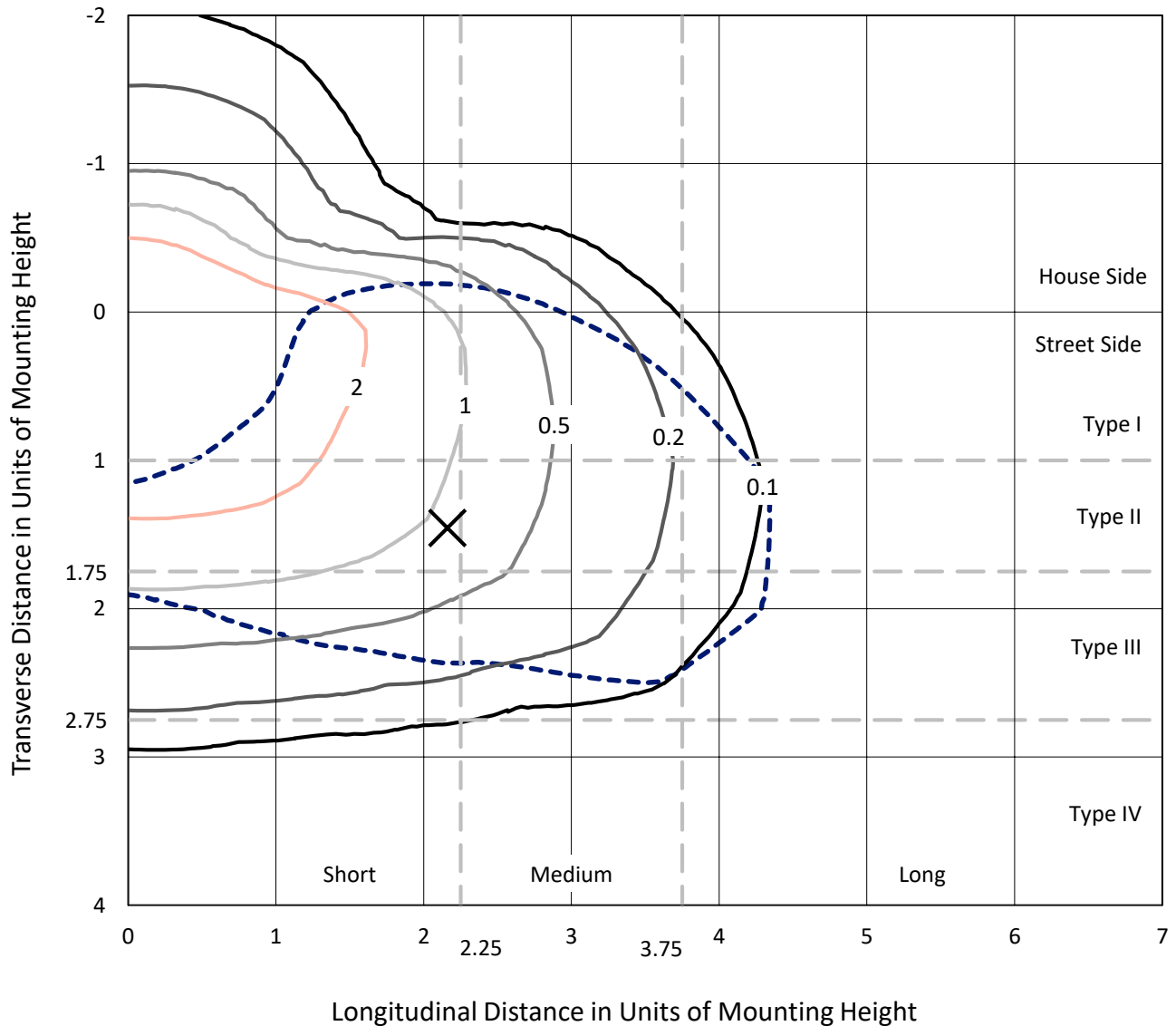


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

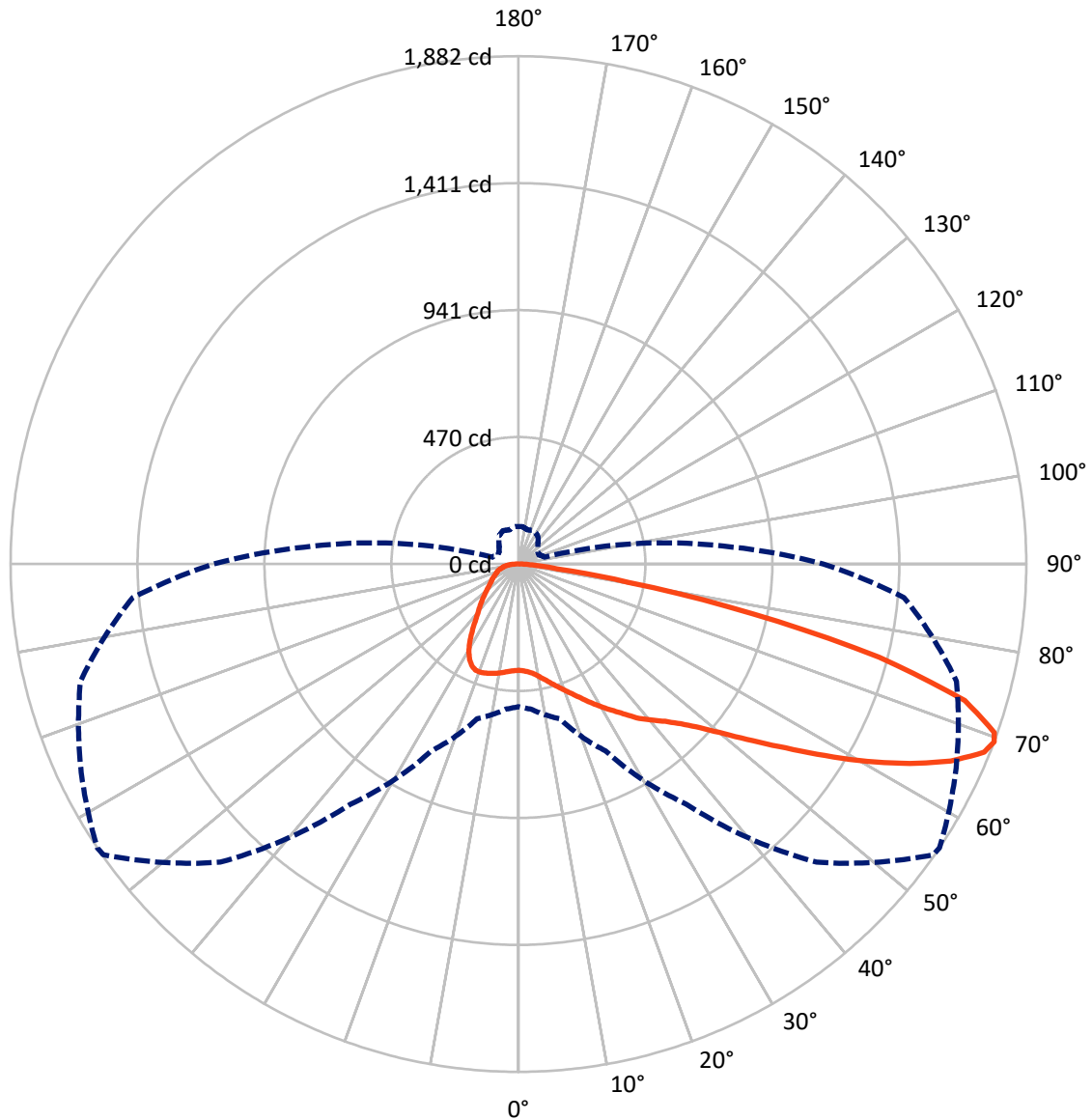


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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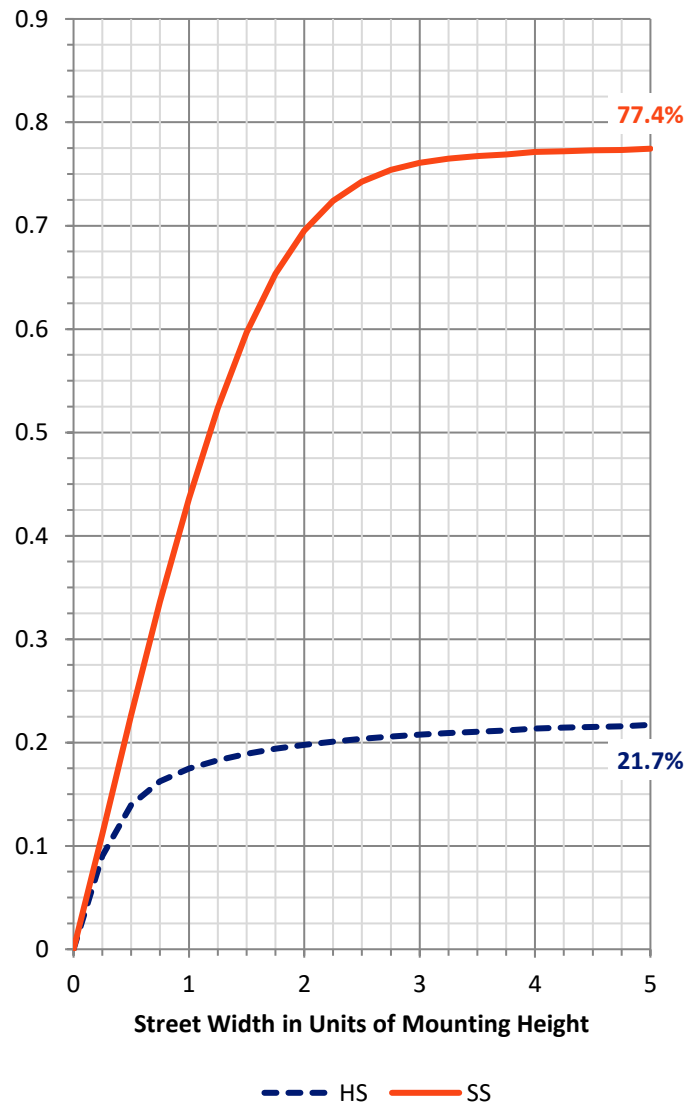
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	670.8	0.0	670.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	2341.2	0.0	2341.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	3012.0	0.0	3012.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.3
10°-20°	124.4	4.1
20°-30°	217.1	7.2
30°-40°	311.8	10.4
40°-50°	431.6	14.3
50°-60°	632.3	21.0
60°-70°	770.9	25.6
70°-80°	426.2	14.2
80°-90°	59.0	2.0
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°	3012.0	100.0
0°-180°	3012.0	100.0



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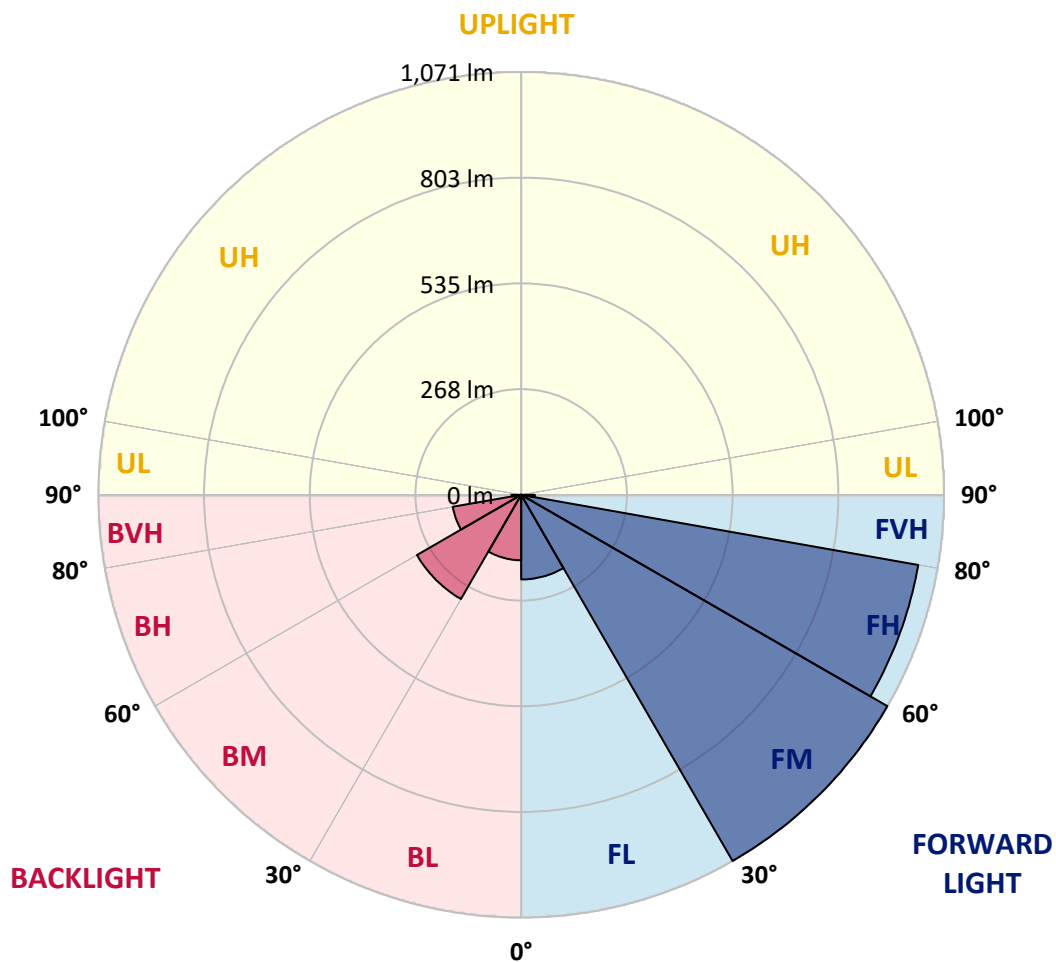
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.4	7.1			
FM	(30°-60°)	1070.9	35.6			
FH	(60°-80°)	1021.2	33.9			G1/1800
FVH	(80°-90°)	34.8	1.2			G1/100
BL	(0°-30°)	165.8	5.5	B1/500		
BM	(30°-60°)	304.8	10.1	B1/1000		
BH	(60°-80°)	175.9	5.8	B1/500		G1/500
BVH	(80°-90°)	24.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	396.3	396.7	396.4	397.2	396.3	396.9	396.4	396.4	396.1	395.1	394.1
5°	402.5	403.3	402.8	403.6	402.5	402.7	401.8	401.8	400.8	398.9	396.8
7.5°	412.2	413.2	412.8	413.6	412.0	412.0	410.8	410.7	408.8	405.6	403.2
10°	423.9	425.1	424.7	425.9	424.7	425.1	423.9	423.9	421.4	416.8	413.8
12.5°	440.8	442.3	441.2	441.1	440.6	441.4	440.4	440.2	437.9	431.6	427.5
15°	463.4	465.1	462.7	462.5	459.6	459.2	459.2	458.9	457.5	450.0	443.2
17.5°	489.4	490.0	487.9	484.6	480.8	478.4	478.1	479.0	479.0	470.2	459.4
20°	515.0	515.9	514.2	510.5	505.7	502.2	499.7	501.4	501.3	490.9	475.4
22.5°	542.8	545.0	542.5	537.7	532.1	528.1	523.8	525.2	525.3	512.6	491.2
25°	578.8	576.8	575.3	568.5	560.5	556.5	552.4	553.9	553.5	535.9	507.5
27.5°	610.6	611.0	609.0	601.8	592.6	583.7	583.4	584.4	582.8	560.2	522.9
30°	647.7	647.9	645.0	638.5	628.5	617.0	614.3	615.8	612.5	583.2	539.0
32.5°	684.5	685.6	682.3	674.6	666.5	652.5	647.1	648.1	639.8	606.8	555.7
35°	716.8	718.2	717.2	712.0	703.2	691.2	684.7	684.1	673.8	635.6	577.8
37.5°	749.7	751.0	749.9	745.5	742.0	729.2	725.8	725.8	708.0	665.1	606.0
40°	783.5	785.6	784.2	778.2	775.2	769.4	761.2	759.2	739.9	700.5	651.8
42.5°	814.9	817.6	823.0	819.5	813.4	814.2	797.7	796.7	782.6	752.8	709.4
45°	859.6	863.5	872.6	869.9	868.7	864.1	844.5	843.6	838.2	823.1	780.9
47.5°	908.2	913.6	930.1	930.6	944.0	935.4	908.7	905.5	906.8	907.4	868.2
50°	953.0	959.0	986.0	998.8	1030.3	1032.2	989.6	986.7	991.5	1005.9	969.9
52.5°	988.8	996.3	1030.1	1069.6	1123.6	1139.0	1089.1	1086.9	1090.5	1115.2	1084.8
55°	1015.1	1023.2	1060.0	1131.8	1218.2	1245.2	1203.6	1201.6	1203.8	1235.3	1209.9
57.5°	1021.2	1023.2	1076.6	1173.7	1297.9	1363.0	1343.8	1339.7	1328.5	1355.8	1347.9
60°	992.5	1000.4	1062.9	1188.5	1359.7	1479.1	1490.3	1485.1	1453.7	1476.1	1469.7
62.5°	934.2	948.3	1011.8	1166.1	1383.9	1574.0	1634.0	1627.8	1573.6	1588.2	1557.2
65°	838.9	844.9	911.6	1088.8	1353.1	1634.7	1762.2	1759.1	1690.9	1668.2	1573.4
67.5°	668.5	679.8	736.5	927.2	1227.5	1627.5	1861.3	1861.0	1767.5	1697.8	1516.1
69°	528.1	539.9	593.8	763.8	1086.2	1562.0	1877.9	1881.5	1789.1	1679.8	1434.1
70°	421.1	434.7	471.7	643.3	960.7	1475.7	1864.1	1870.6	1784.9	1650.0	1358.4
72.5°	179.2	190.2	216.5	331.6	585.5	1101.9	1704.4	1729.1	1688.7	1510.1	1122.7
75°	78.2	81.7	93.6	135.2	259.9	599.7	1335.2	1380.9	1443.9	1276.5	836.3
77.5°	57.3	58.7	65.3	79.4	116.6	226.5	858.6	885.2	1041.3	928.9	513.0
80°	44.3	45.3	50.4	58.3	76.2	91.6	391.6	414.4	585.5	477.1	213.6
82.5°	35.3	36.0	39.5	43.0	52.6	55.5	130.0	144.2	216.1	131.8	56.5
85°	32.8	33.6	34.9	31.3	33.7	32.6	56.2	58.8	65.3	51.8	23.7
87.5°	14.8	17.5	34.6	24.4	18.0	14.3	23.0	24.1	27.1	27.2	10.5
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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	394.7	394.4	394.9	393.7	395.2	395.1	394.6	394.8	395.8	395.7	395.8
5°	397.1	396.9	397.5	396.6	398.4	399.1	399.2	400.1	401.2	401.6	401.6
7.5°	403.1	403.1	403.4	402.2	403.4	403.3	402.8	403.7	404.9	405.0	404.9
10°	413.5	413.6	413.1	409.9	408.8	406.0	403.4	403.5	405.0	406.1	406.4
12.5°	426.6	426.1	423.9	418.0	413.6	407.9	405.2	405.1	406.5	407.5	407.8
15°	441.5	440.4	434.4	424.8	417.1	411.5	407.2	406.1	405.3	404.3	404.4
17.5°	455.6	453.0	443.2	429.8	421.7	414.2	405.8	399.1	394.4	391.7	390.9
20°	469.9	464.9	450.6	434.4	424.2	410.6	394.4	380.7	372.2	368.2	367.5
22.5°	483.0	474.8	457.6	439.3	422.2	398.3	372.9	353.0	341.2	335.9	336.3
25°	495.8	484.4	464.9	442.7	412.2	376.8	343.0	318.5	304.9	298.9	298.7
27.5°	507.0	494.0	472.7	439.9	393.7	346.0	307.7	283.8	272.4	267.3	266.5
30°	519.8	506.1	483.2	429.3	366.5	310.6	273.1	256.3	248.2	243.1	242.2
32.5°	535.5	522.6	491.8	409.9	331.7	273.5	246.1	234.4	227.0	221.3	220.3
35°	558.3	544.4	494.0	382.0	293.5	244.3	226.3	214.3	204.3	196.9	196.2
37.5°	587.0	571.7	489.0	346.0	256.5	225.3	209.8	195.0	182.0	171.6	170.0
40°	628.3	605.2	475.2	304.5	229.2	210.6	193.7	176.8	160.7	148.6	146.2
42.5°	677.9	644.6	454.1	263.2	209.2	195.8	177.7	156.8	141.4	132.8	131.6
45°	741.0	685.4	424.7	227.1	189.5	181.0	160.5	141.2	131.7	125.3	124.3
47.5°	813.0	731.3	393.9	197.8	172.8	167.1	146.7	134.3	126.7	121.7	120.8
50°	901.5	783.1	361.2	173.7	156.0	150.3	140.2	130.4	124.4	120.6	119.6
52.5°	1001.3	841.5	337.6	154.7	142.0	138.0	136.8	128.4	123.5	120.6	119.6
55°	1108.8	901.0	312.2	138.7	130.0	131.2	134.5	128.6	125.2	121.7	120.4
57.5°	1216.4	962.4	283.9	125.2	120.5	126.1	132.9	129.0	126.2	122.7	121.5
60°	1301.5	1001.3	240.0	113.9	112.9	120.5	129.2	125.9	122.2	122.3	122.1
62.5°	1341.2	999.2	191.5	103.9	105.3	112.9	123.2	121.0	118.0	122.0	122.3
65°	1318.9	949.4	149.1	94.7	97.2	105.0	116.9	118.6	119.6	127.4	128.5
67.5°	1225.3	852.5	115.5	86.7	89.9	99.6	117.6	129.2	130.5	138.7	138.6
69°	1128.5	761.6	100.3	82.6	86.2	101.0	125.7	135.9	130.8	139.6	138.3
70°	1047.4	689.7	92.2	79.8	84.6	103.3	131.1	135.8	129.3	136.8	134.7
72.5°	806.6	496.2	78.2	74.6	79.0	98.9	132.6	132.8	125.7	127.1	123.6
75°	553.3	313.6	68.3	67.5	70.5	89.1	127.6	126.9	116.2	114.1	111.2
77.5°	305.1	159.3	58.0	60.8	62.8	79.0	116.0	115.0	106.1	101.8	100.8
80°	117.7	69.7	49.0	54.1	55.3	68.4	101.7	100.8	93.4	87.8	86.2
82.5°	44.4	36.5	40.5	46.8	46.4	56.4	86.1	85.6	78.4	70.2	67.8
85°	20.5	21.9	32.1	38.6	35.6	41.8	68.9	69.8	61.1	51.4	51.4
87.5°	8.7	12.2	22.7	29.2	24.0	28.2	50.5	48.2	44.3	30.7	28.8
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)