

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: P798712

Luminaire Tested: **ARCH1-30-722-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-722-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2750 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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

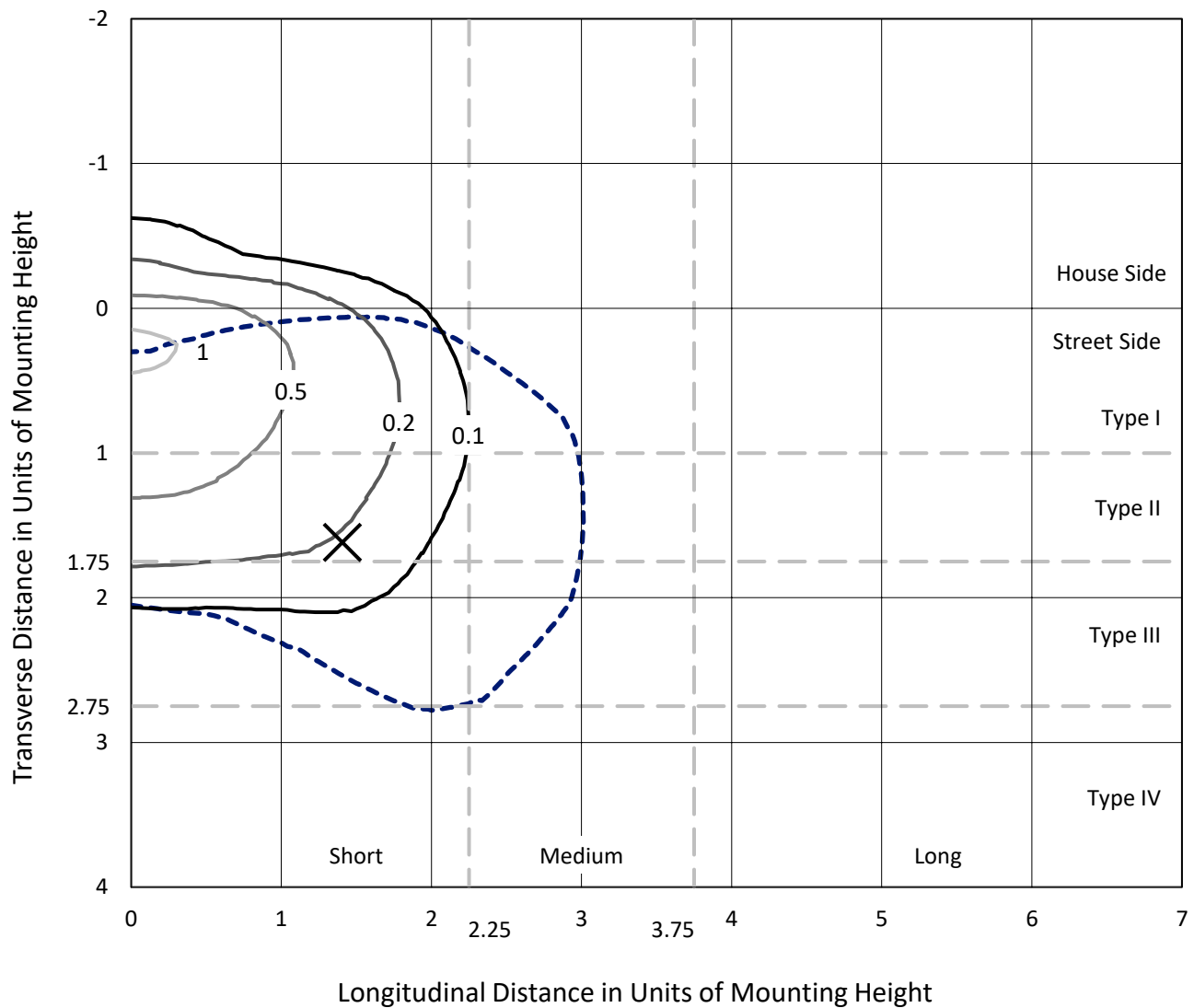


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Iso-Footcandle Lines of Horizontal Illumination

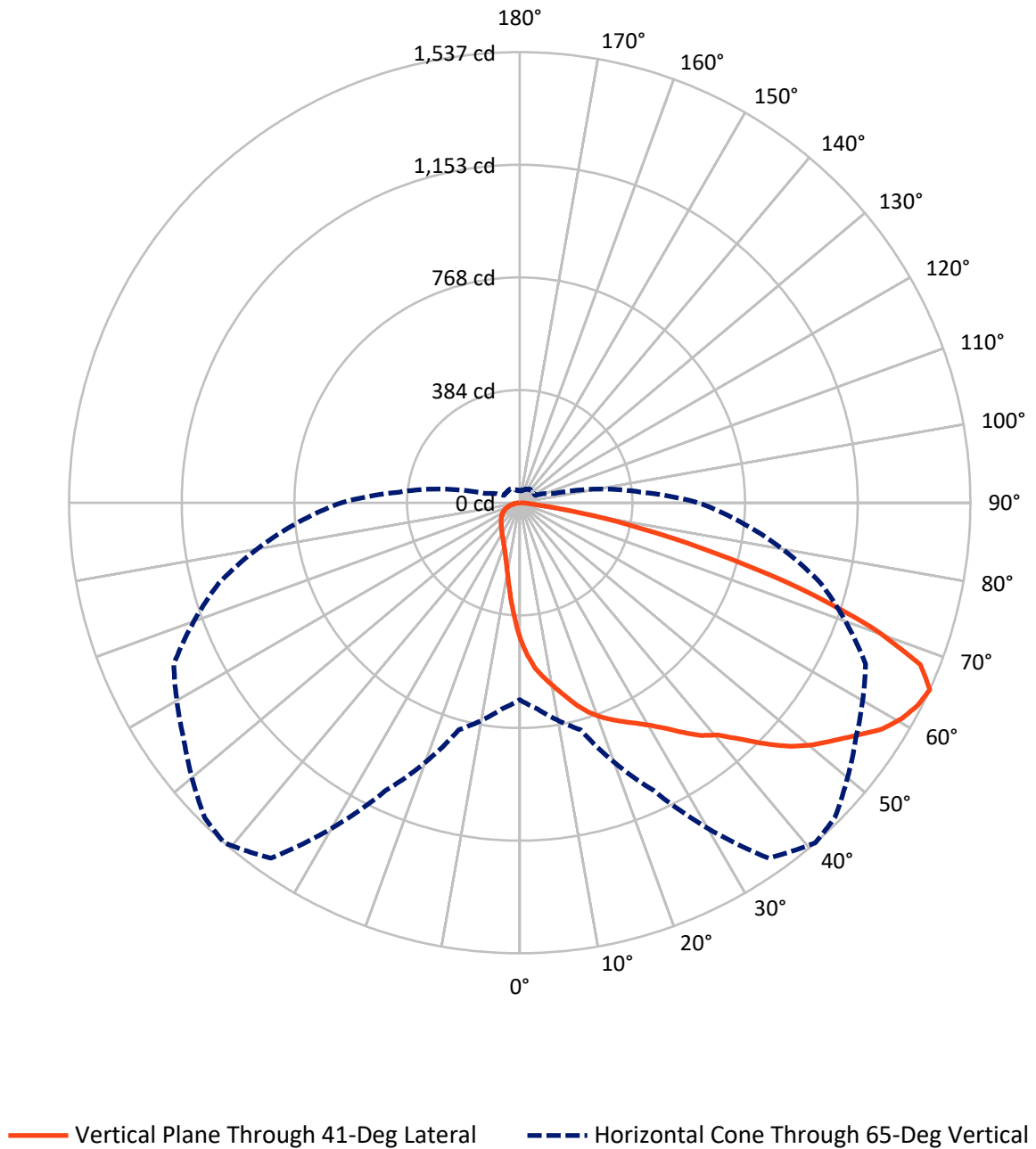
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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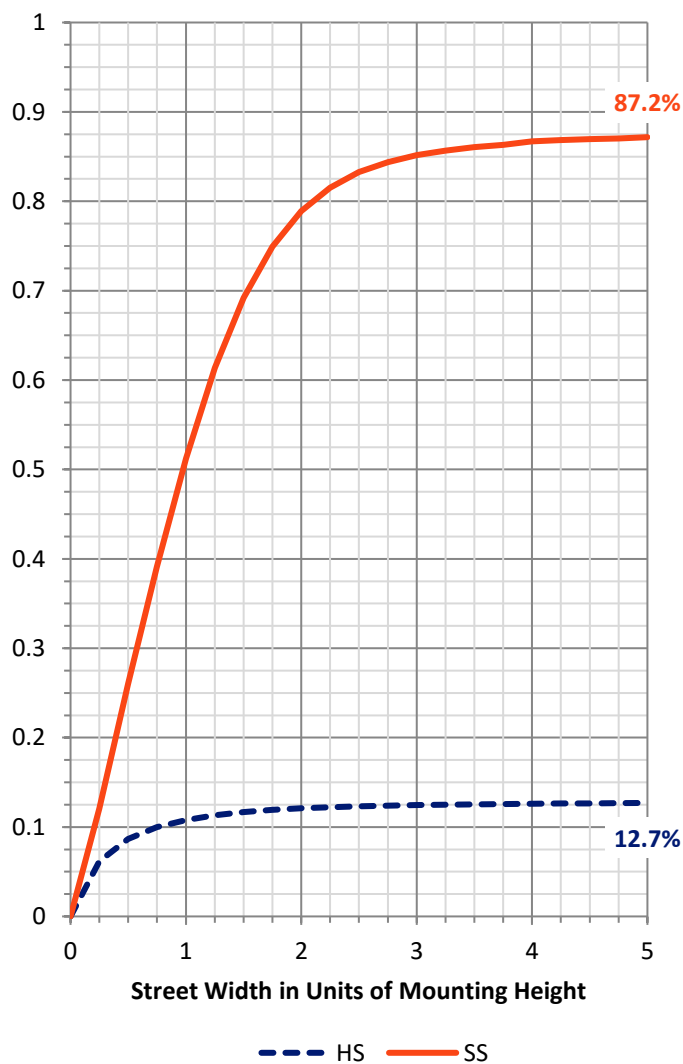
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.1	0.0	353.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2396.9	0.0	2396.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	2750.0	0.0	2750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	1.6
10°-20°	130.9	4.8
20°-30°	225.2	8.2
30°-40°	341.6	12.4
40°-50°	500.4	18.2
50°-60°	631.9	23.0
60°-70°	592.6	21.5
70°-80°	264.1	9.6
80°-90°	19.6	0.7
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°	2750.0	100.0
0°-180°	2750.0	100.0

Coefficient of Utilization



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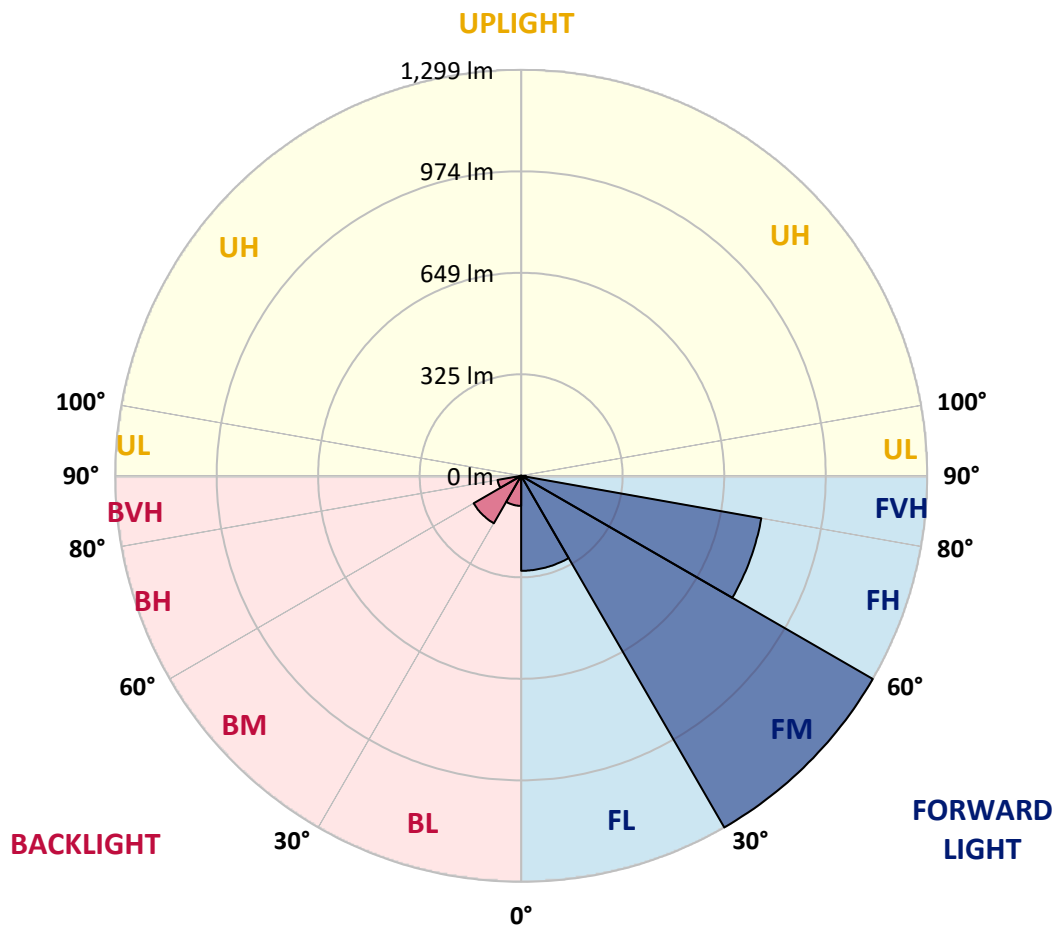
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	303.7	11.0			
FM	(30°-60°)	1298.7	47.2			
FH	(60°-80°)	780.0	28.4			G1/1800
FVH	(80°-90°)	14.6	0.5			G1/100
BL	(0°-30°)	96.1	3.5	B0/110		
BM	(30°-60°)	175.3	6.4	B0/220		
BH	(60°-80°)	76.7	2.8	B0/110		G0/110
BVH	(80°-90°)	5.0	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	540.5	538.8	537.6	531.2	531.2	522.5	523.1	515.0	505.1	489.5	472.6
5°	591.5	589.2	586.3	579.9	577.6	568.9	567.8	556.2	539.3	512.1	481.9
7.5°	636.2	633.9	629.8	620.5	614.1	603.7	600.8	585.7	567.2	533.5	491.2
10°	676.8	675.0	669.8	658.2	649.5	636.8	631.5	611.2	588.1	550.9	498.7
12.5°	718.0	715.6	708.7	698.8	688.4	673.3	666.9	640.8	611.2	570.1	509.8
15°	756.2	752.8	747.5	737.1	727.8	713.3	706.4	675.6	639.7	591.5	524.3
17.5°	781.2	778.3	773.6	767.8	760.3	749.3	742.3	712.2	668.1	612.4	539.3
20°	796.2	795.1	793.3	789.9	786.4	778.8	773.6	745.2	698.8	632.7	553.8
22.5°	807.8	806.7	806.1	806.1	806.7	803.8	800.3	775.9	728.4	654.2	567.2
25°	825.8	825.2	824.1	822.9	827.0	827.6	826.4	809.6	765.5	682.6	584.0
27.5°	850.8	849.0	846.7	845.5	849.6	852.5	854.8	843.2	804.9	711.6	603.1
30°	889.0	883.8	878.0	874.0	876.9	881.5	886.7	879.8	845.5	747.5	622.8
32.5°	934.3	927.9	914.6	907.0	914.6	918.0	922.1	918.6	887.9	786.4	642.6
35°	989.4	981.8	967.9	956.9	970.2	962.7	960.9	957.5	927.9	824.7	664.6
37.5°	1081.0	1070.0	1047.9	1023.6	1023.6	1007.3	1001.0	990.5	963.8	858.9	686.1
40°	1187.1	1172.6	1144.2	1108.3	1075.2	1041.6	1037.5	1030.0	1006.2	898.3	710.4
42.5°	1303.7	1275.9	1236.4	1192.9	1139.6	1101.3	1092.0	1070.6	1047.4	938.3	734.8
45°	1433.0	1375.0	1317.6	1295.6	1207.4	1172.6	1155.2	1116.4	1090.3	980.1	760.3
47.5°	1453.9	1408.7	1370.4	1366.9	1270.6	1241.6	1221.9	1166.2	1136.7	1024.7	787.0
50°	1442.3	1415.0	1419.1	1405.2	1317.0	1297.9	1282.8	1219.6	1182.5	1067.7	811.3
52.5°	1393.6	1408.7	1431.9	1406.3	1361.1	1345.4	1337.9	1277.0	1225.4	1107.1	833.4
55°	1335.6	1346.0	1395.9	1427.2	1412.1	1398.2	1391.3	1343.7	1267.7	1140.1	853.7
57.5°	1250.9	1246.3	1301.4	1423.7	1465.5	1457.4	1449.8	1409.2	1307.2	1163.9	866.4
60°	1123.9	1114.1	1183.6	1354.1	1482.9	1495.6	1492.2	1452.7	1337.3	1163.3	861.2
62.5°	904.1	928.5	1024.7	1240.5	1490.4	1522.9	1516.5	1456.2	1347.2	1129.7	828.1
65°	672.1	706.9	801.5	1083.9	1480.0	1536.8	1519.4	1399.4	1301.4	1063.0	755.7
67.5°	484.2	515.0	584.0	891.9	1379.7	1473.0	1452.7	1306.6	1195.8	968.5	655.3
70°	331.1	353.2	400.2	649.5	1177.8	1273.5	1260.8	1168.0	1029.4	856.0	532.4
72.5°	233.7	243.0	273.1	428.6	894.8	999.2	984.1	960.9	827.0	711.6	414.1
75°	175.1	180.9	197.2	277.2	603.7	692.4	678.5	691.9	617.6	538.8	301.6
77.5°	66.1	71.9	111.9	176.9	357.2	425.1	411.2	419.3	343.3	272.0	150.2
80°	18.0	19.1	37.1	84.1	162.4	211.7	192.5	165.3	127.6	125.3	79.5
82.5°	7.5	8.7	16.8	45.2	58.0	58.0	48.7	60.3	48.7	58.6	38.3
85°	2.9	3.5	4.1	11.6	7.5	8.1	8.7	11.6	9.9	12.2	8.7
87.5°	0.0	0.0	0.0	0.6	0.6	1.2	0.6	1.2	1.7	1.7	1.7
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°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	465.7	459.3	450.0	434.9	419.3	410.6	399.6	397.8	386.2	385.1	380.4
5°	468.6	455.2	431.5	402.5	374.1	352.0	335.8	327.1	310.3	310.3	305.6
7.5°	470.9	450.0	411.8	368.8	330.0	300.4	278.4	269.1	254.0	252.9	249.4
10°	471.5	443.6	390.3	334.6	287.1	256.9	235.5	225.0	211.7	210.5	208.2
12.5°	476.1	440.2	371.2	305.0	256.3	223.9	203.0	194.3	183.8	182.7	180.4
15°	483.7	440.2	354.9	280.1	229.1	198.9	180.9	172.8	165.3	164.1	163.0
17.5°	491.2	439.0	338.7	256.9	206.5	179.2	163.5	157.2	151.4	150.8	149.6
20°	498.2	438.4	322.4	237.2	189.1	163.0	150.8	145.0	140.3	140.3	139.8
22.5°	505.1	437.3	306.8	218.6	174.0	150.8	140.3	134.0	130.5	130.5	129.9
25°	515.6	437.3	292.3	203.0	161.8	141.5	131.1	126.4	123.5	122.9	122.9
27.5°	527.7	440.7	279.5	189.1	151.4	132.2	124.1	119.5	116.0	114.8	115.4
30°	541.1	443.6	267.9	176.9	141.5	125.3	116.6	111.9	108.4	107.3	107.9
32.5°	554.4	447.1	257.5	165.9	131.6	118.9	110.2	105.0	101.5	100.9	100.9
35°	568.9	450.6	247.1	156.6	123.5	112.5	104.4	98.6	96.3	95.1	95.7
37.5°	583.4	456.4	237.2	147.9	117.7	106.7	99.2	93.4	91.6	91.0	91.0
40°	600.8	465.1	233.1	142.1	112.5	101.5	95.1	89.3	87.6	87.6	87.6
42.5°	615.3	472.1	229.7	135.7	108.4	96.8	91.0	86.4	85.3	84.7	85.3
45°	629.8	478.4	225.0	129.9	103.2	92.2	87.6	82.9	81.8	81.8	81.8
47.5°	644.3	481.9	218.6	124.1	98.6	88.1	84.1	80.0	78.9	78.9	78.9
50°	655.9	484.8	209.4	117.7	93.4	84.7	80.6	76.6	75.4	75.4	75.4
52.5°	667.5	485.4	199.5	110.2	88.1	80.6	77.1	73.1	71.9	71.3	71.3
55°	677.9	484.8	187.9	101.5	82.4	76.0	73.1	69.6	67.3	65.0	66.1
57.5°	685.5	484.2	174.6	92.8	76.6	71.3	70.2	65.5	60.9	55.1	56.3
60°	682.6	477.9	160.1	81.8	70.2	66.7	66.7	60.3	52.2	49.3	49.9
62.5°	664.0	459.9	145.0	70.2	63.8	62.1	61.5	54.5	48.1	45.2	45.8
65°	608.3	414.7	122.9	59.7	57.4	56.8	56.8	50.5	44.7	41.2	41.8
67.5°	523.7	348.0	100.3	50.5	51.0	52.2	52.2	46.4	40.6	37.1	37.7
70°	419.9	272.0	80.0	43.5	44.1	45.8	47.0	41.8	36.5	33.1	33.1
72.5°	316.1	206.5	64.4	36.5	39.4	39.4	41.2	37.1	31.9	28.4	29.0
75°	229.1	147.9	51.0	30.7	34.2	33.6	33.6	31.3	27.3	24.9	24.9
77.5°	108.4	77.7	40.6	22.0	26.7	26.1	26.7	24.9	23.2	20.9	21.5
80°	53.4	38.3	26.1	15.7	18.6	19.1	20.9	19.7	19.1	17.4	17.4
82.5°	25.5	15.1	12.2	11.0	12.8	13.3	14.5	14.5	15.1	13.9	13.9
85°	7.0	4.1	5.2	7.0	8.1	8.7	9.9	10.4	10.4	9.9	10.4
87.5°	1.7	1.7	2.3	3.5	4.1	4.6	5.2	5.2	2.3	0.0	0.0
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)