

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: P397731

Luminaire Tested: **ARCH-S-PA1-30-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2448 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

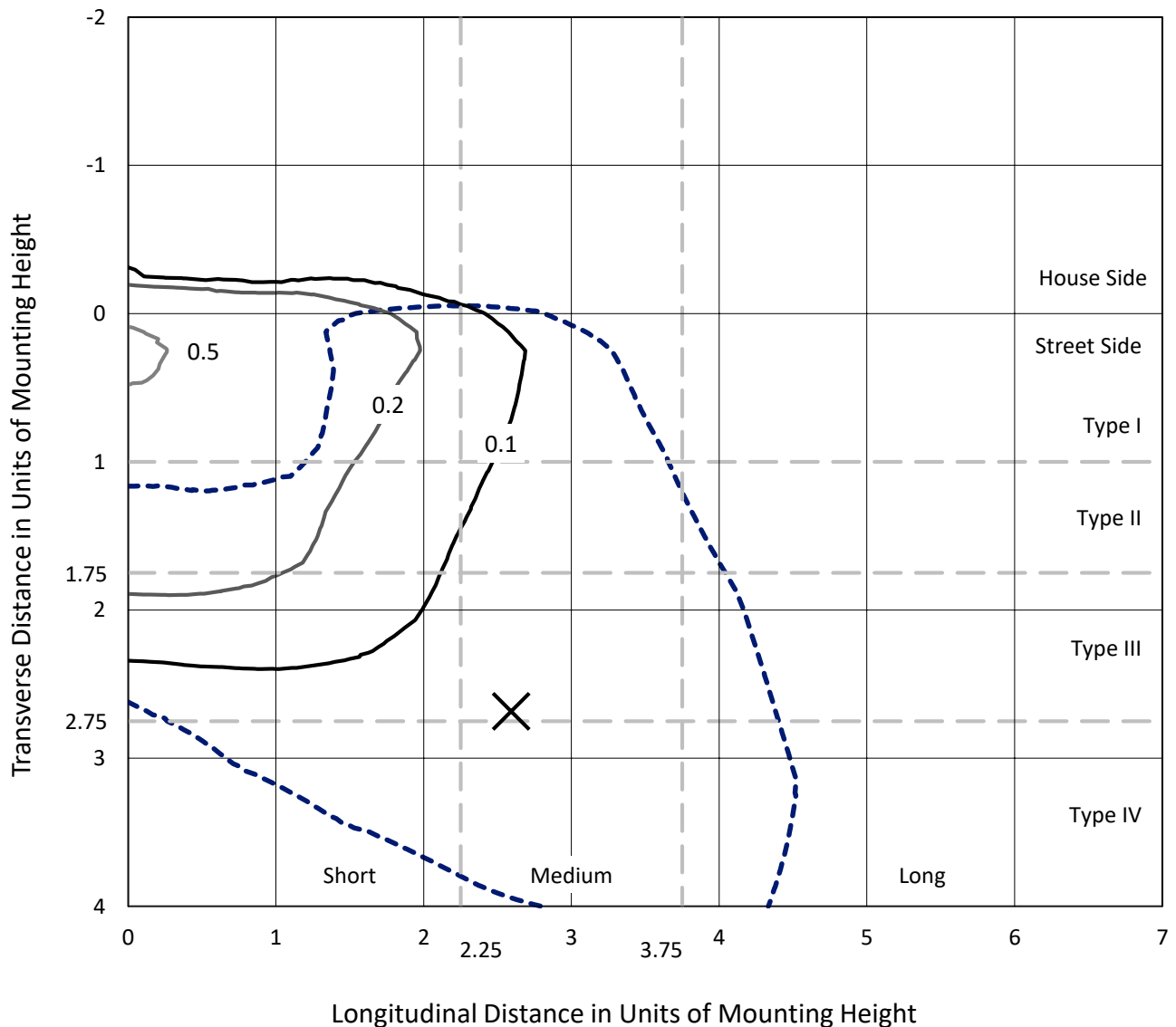
Input Watts (W): 31
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P397731
 CATALOG NUMBER: ARCH-S-PA1-30-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

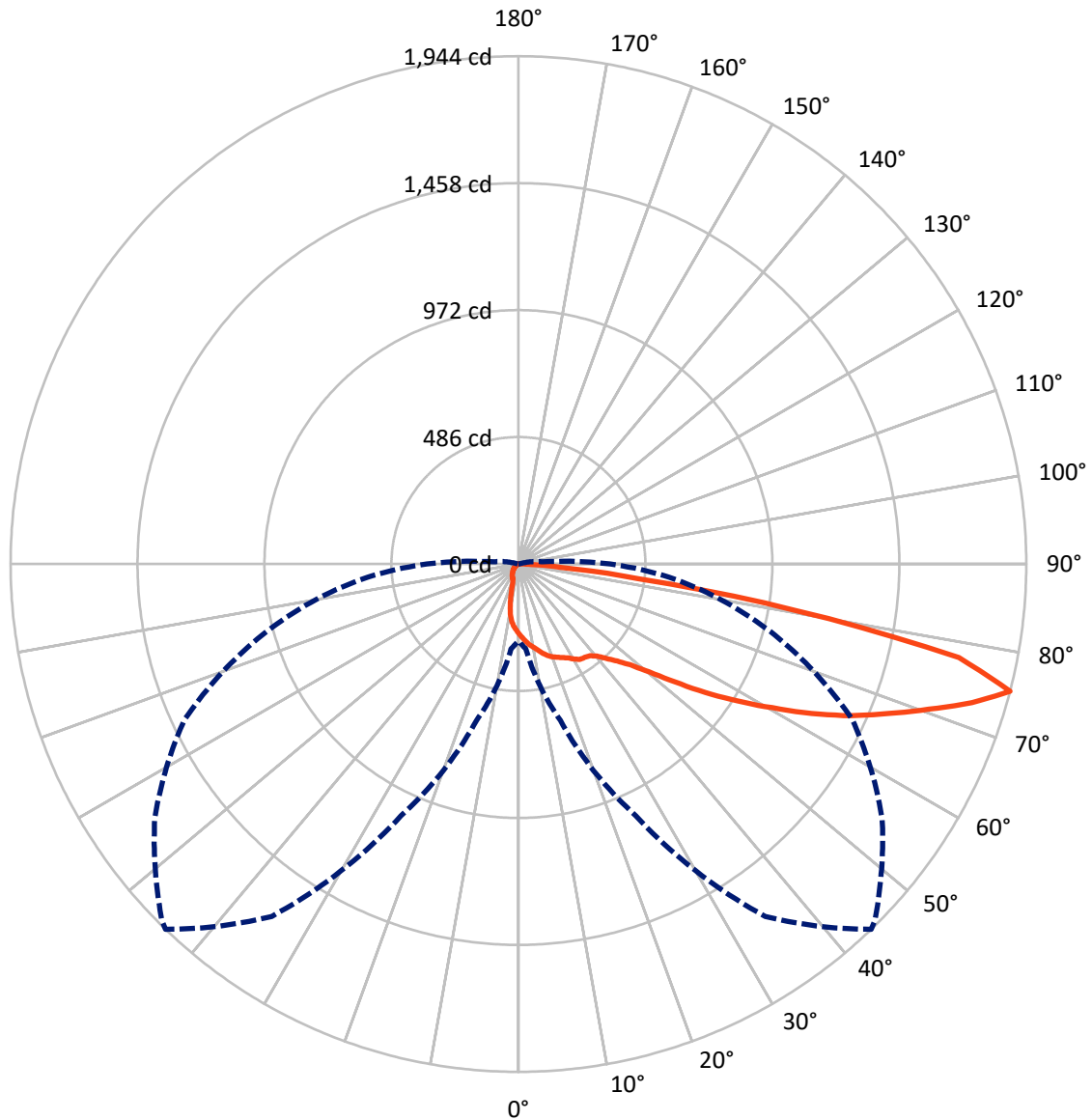


Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P397731

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



REPORT NUMBER: P397731

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T4W-HSS

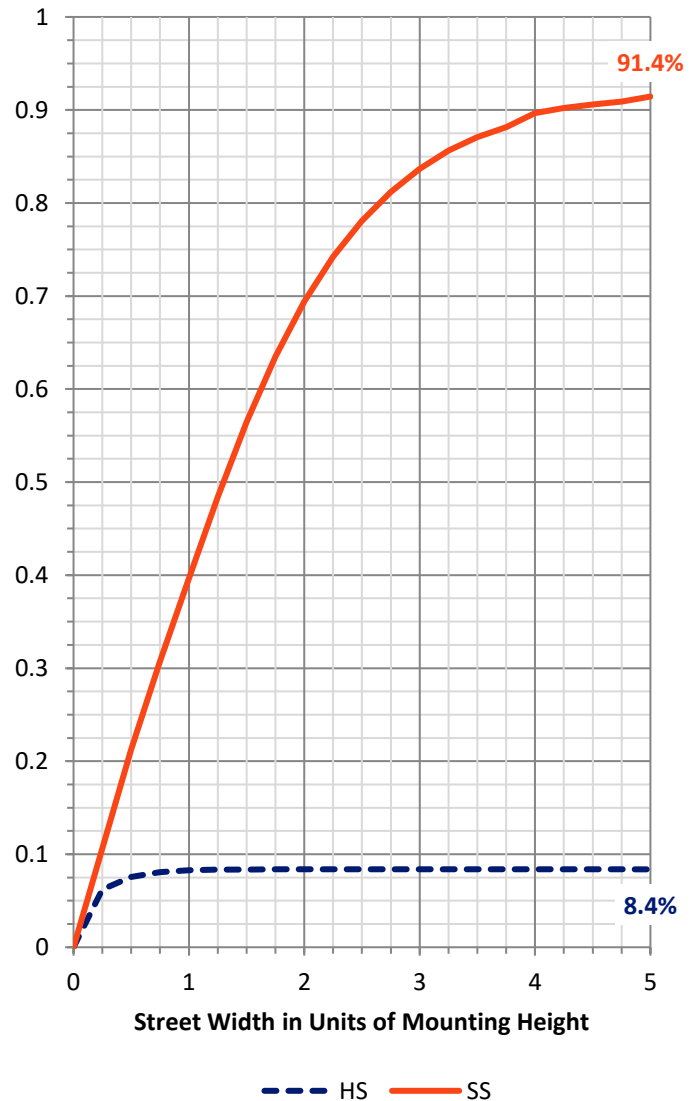
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	206.5	0.0	206.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2241.6	0.0	2241.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	2448.0	0.0	2448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.1	1.0
10°-20°	70.4	2.9
20°-30°	116.2	4.7
30°-40°	168.7	6.9
40°-50°	274.2	11.2
50°-60°	483.3	19.7
60°-70°	694.6	28.4
70°-80°	556.2	22.7
80°-90°	59.3	2.4
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°	2448.0	100.0
0°-180°	2448.0	100.0

Coefficient of Utilization



REPORT NUMBER: P397731

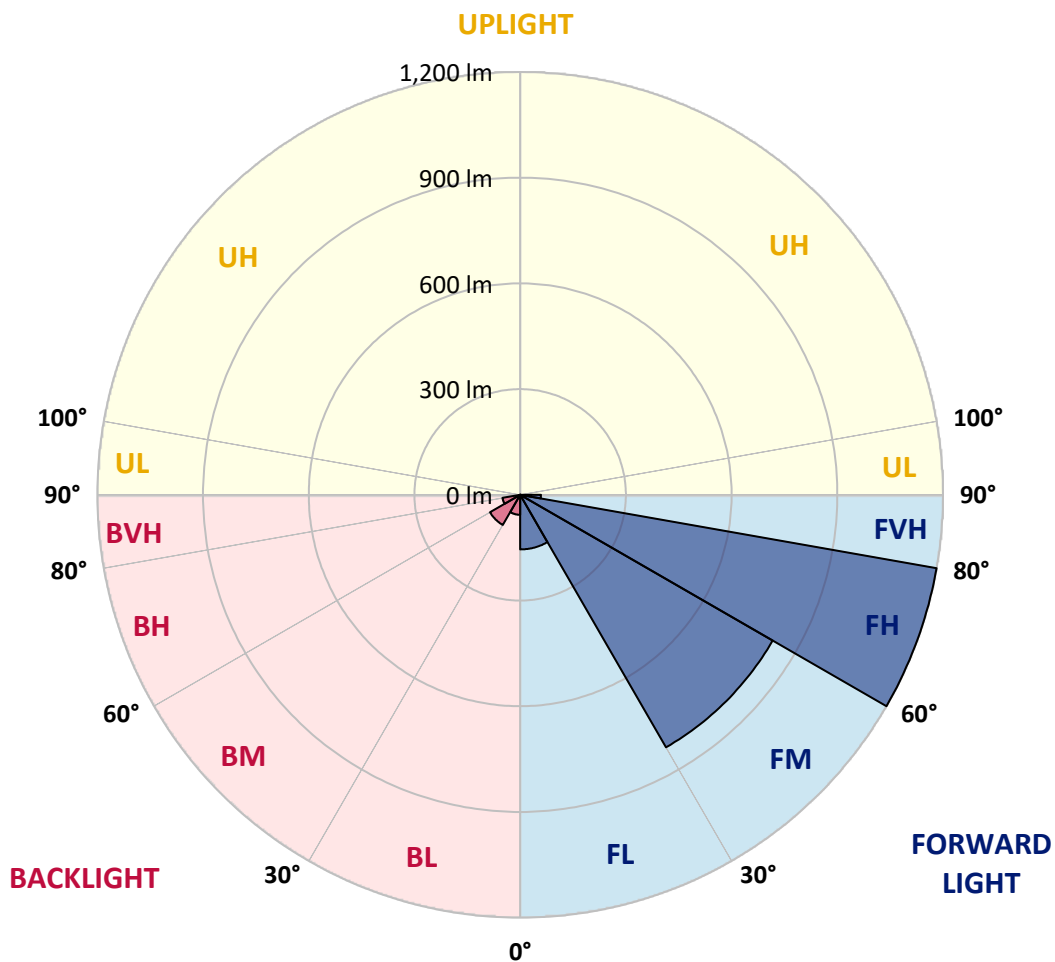
CATALOG NUMBER: ARCH-S-PA1-30-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.0	6.3			
FM	(30°-60°)	827.4	33.8			
FH	(60°-80°)	1200.0	49.0			G1/1800
FVH	(80°-90°)	59.1	2.4			G1/100
BL	(0°-30°)	56.7	2.3	B0/110		
BM	(30°-60°)	98.7	4.0	B0/220		
BH	(60°-80°)	50.9	2.1	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			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 IV Medium





REPORT NUMBER: P397731

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5
2.5°	290.4	289.9	288.6	286.3	284.1	281.8	281.4	277.7	273.7	270.5	267.8
5°	316.1	315.7	313.4	308.5	303.5	297.6	297.2	288.6	280.9	272.3	265.1
7.5°	342.8	341.9	337.8	330.1	321.6	312.5	311.6	299.0	287.7	276.4	266.0
10°	363.6	362.7	356.8	347.7	336.0	324.7	323.4	310.3	299.0	284.5	270.5
12.5°	383.9	382.1	374.4	364.5	350.0	339.2	337.8	324.3	310.7	295.8	278.6
15°	402.8	400.6	393.4	380.7	365.4	355.0	354.1	339.6	325.6	308.5	289.5
17.5°	415.9	415.0	406.5	392.5	377.6	369.0	368.1	353.2	339.2	321.1	300.8
20°	422.7	422.7	414.6	399.2	385.7	379.8	378.5	364.5	350.9	333.7	312.5
22.5°	424.1	425.4	419.1	402.4	392.5	387.5	386.6	374.4	361.3	345.5	325.6
25°	426.8	426.8	423.6	405.6	398.3	397.0	396.5	385.7	373.9	358.1	338.7
27.5°	429.9	429.9	427.7	410.1	407.4	406.9	406.5	401.5	392.0	373.5	354.1
30°	438.1	438.5	436.7	419.1	417.3	422.3	423.2	420.5	408.7	385.7	369.9
32.5°	458.4	454.3	449.4	425.4	428.6	434.9	435.4	429.9	417.3	398.8	388.8
35°	509.4	485.5	462.9	430.8	432.2	438.5	439.4	439.0	431.3	415.5	410.5
37.5°	556.8	523.0	490.9	443.5	439.0	445.7	447.6	455.2	449.4	438.5	439.9
40°	584.4	571.3	548.7	478.3	452.5	462.9	464.7	476.5	474.2	469.7	478.3
42.5°	669.3	670.2	645.8	530.2	477.4	494.1	496.3	505.8	509.0	511.2	532.0
45°	767.8	770.9	765.0	623.7	524.3	529.7	532.9	545.6	557.3	571.8	609.7
47.5°	886.1	883.4	861.7	737.9	606.1	575.8	578.1	602.5	622.8	654.4	708.6
50°	990.9	997.6	956.5	844.5	721.2	648.5	646.3	670.2	706.8	751.0	819.2
52.5°	1096.5	1086.6	1031.0	950.2	857.6	747.4	740.7	753.8	805.2	857.6	927.6
55°	1124.5	1125.4	1106.5	1065.8	971.4	867.6	856.3	855.4	919.5	955.2	1041.4
57.5°	1179.6	1181.9	1186.4	1194.5	1149.8	987.7	975.9	963.3	1025.6	1046.4	1155.7
60°	1235.6	1238.3	1265.9	1309.7	1279.9	1117.3	1104.7	1074.9	1109.6	1137.6	1275.8
62.5°	1228.4	1247.4	1327.3	1414.5	1410.9	1259.6	1243.8	1172.0	1194.1	1218.5	1386.0
65°	1109.2	1129.5	1309.2	1443.4	1542.3	1400.0	1374.3	1272.2	1273.6	1302.9	1492.2
67.5°	1002.6	1024.7	1196.3	1431.2	1629.0	1526.0	1499.4	1372.9	1351.7	1400.5	1549.1
70°	941.2	963.3	1106.5	1393.2	1653.4	1665.6	1642.5	1488.1	1444.7	1489.4	1485.4
72.5°	736.6	771.4	991.8	1321.0	1679.6	1815.1	1797.0	1634.0	1523.8	1396.4	1130.9
75°	293.6	325.6	619.2	1063.1	1646.6	1943.8	1929.8	1699.4	1410.4	997.2	579.0
77.5°	88.5	94.8	172.1	525.7	1207.2	1723.4	1718.9	1428.9	998.1	462.9	158.1
80°	29.4	32.5	52.8	145.0	551.0	1076.7	1097.0	910.5	453.4	106.1	32.1
82.5°	12.2	13.5	26.6	58.3	195.1	463.8	457.0	407.8	158.1	65.9	11.7
85°	3.2	4.1	12.2	33.4	71.4	159.9	168.0	136.8	89.4	54.6	3.6
87.5°	0.0	0.0	5.9	13.5	32.1	48.3	50.6	41.5	50.6	41.1	1.8
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: P397731

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5	266.5
2.5°	265.6	263.3	259.2	256.5	252.9	252.0	250.2	247.9	247.5	245.2	245.7
5°	261.0	257.4	250.2	245.2	239.4	237.6	234.4	232.1	230.3	227.2	227.6
7.5°	260.1	254.7	244.8	235.3	225.8	219.0	209.6	201.9	195.6	188.8	190.1
10°	263.3	256.5	242.5	229.4	212.3	190.6	165.7	149.5	141.4	133.2	134.1
12.5°	269.6	261.5	243.4	223.6	188.8	151.7	117.4	95.3	89.4	85.8	86.3
15°	279.1	269.2	246.1	212.3	157.2	109.7	78.1	68.6	70.9	72.3	72.3
17.5°	289.0	277.7	248.4	191.9	121.5	76.8	63.7	62.8	65.9	69.1	69.1
20°	301.2	286.8	248.8	166.2	87.6	62.3	60.1	60.1	62.3	65.9	65.9
22.5°	313.0	296.7	244.8	136.8	66.8	57.8	57.8	57.8	59.2	62.8	63.2
25°	327.0	308.9	236.2	105.7	57.4	55.1	55.1	55.5	56.5	59.6	60.1
27.5°	341.9	321.6	221.7	77.2	52.4	51.9	52.4	52.8	53.3	56.5	57.4
30°	359.0	335.6	203.2	57.8	47.9	47.9	49.2	50.1	50.1	52.8	53.7
32.5°	378.9	354.1	181.1	47.9	43.4	42.9	45.2	46.5	46.5	48.8	49.7
35°	403.7	373.0	154.5	42.5	39.7	38.8	39.7	42.0	42.9	44.7	45.2
37.5°	436.7	395.6	126.0	39.3	37.0	35.2	35.2	35.7	37.5	39.3	39.7
40°	478.7	420.5	98.0	37.0	34.3	32.5	31.2	30.7	30.3	31.6	32.5
42.5°	531.6	448.5	73.2	34.8	32.1	29.4	27.5	25.7	23.5	23.0	23.5
45°	599.3	482.8	54.2	33.0	30.7	26.6	23.5	20.3	16.3	14.9	15.4
47.5°	679.2	518.5	42.5	31.2	29.8	23.5	19.4	14.0	9.9	9.0	9.5
50°	764.1	552.8	36.1	28.9	28.0	20.3	14.0	8.6	5.9	5.9	6.3
52.5°	836.4	572.2	33.0	27.1	25.3	16.7	9.0	5.0	3.6	3.6	4.1
55°	906.4	582.6	30.7	25.3	21.7	11.7	5.0	3.2	2.3	2.3	2.3
57.5°	978.7	587.1	28.0	23.0	17.2	7.2	2.7	1.8	1.4	1.4	1.4
60°	1042.8	578.5	23.9	19.0	11.3	3.6	1.4	1.4	0.9	0.5	0.5
62.5°	1096.5	562.3	16.7	13.5	6.8	1.8	0.9	0.5	0.0	0.0	0.0
65°	1129.5	536.1	10.8	9.0	4.1	1.4	0.5	0.0	0.0	0.0	0.0
67.5°	1120.0	486.8	6.8	5.9	1.8	0.9	0.5	0.0	0.0	0.0	0.0
70°	1010.7	399.2	5.0	3.6	1.4	0.5	0.0	0.0	0.0	0.0	0.0
72.5°	728.5	270.1	3.6	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	350.5	96.2	2.3	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	85.8	21.2	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.0	4.1	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	1.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)