

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: P573197

Luminaire Tested: **ARCH-S-PA2-40-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3962 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

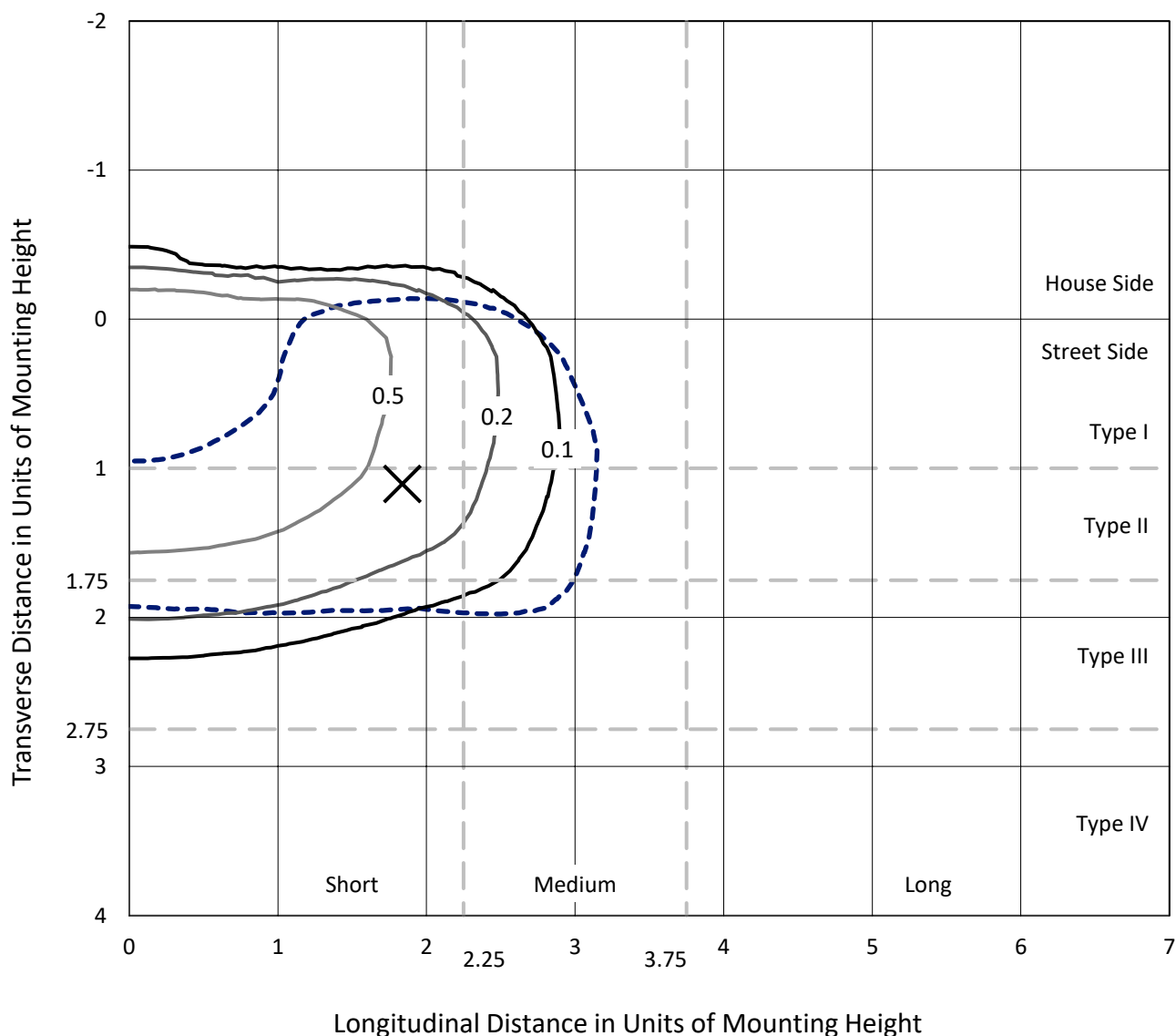
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573197
 CATALOG NUMBER: ARCH-S-PA2-40-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

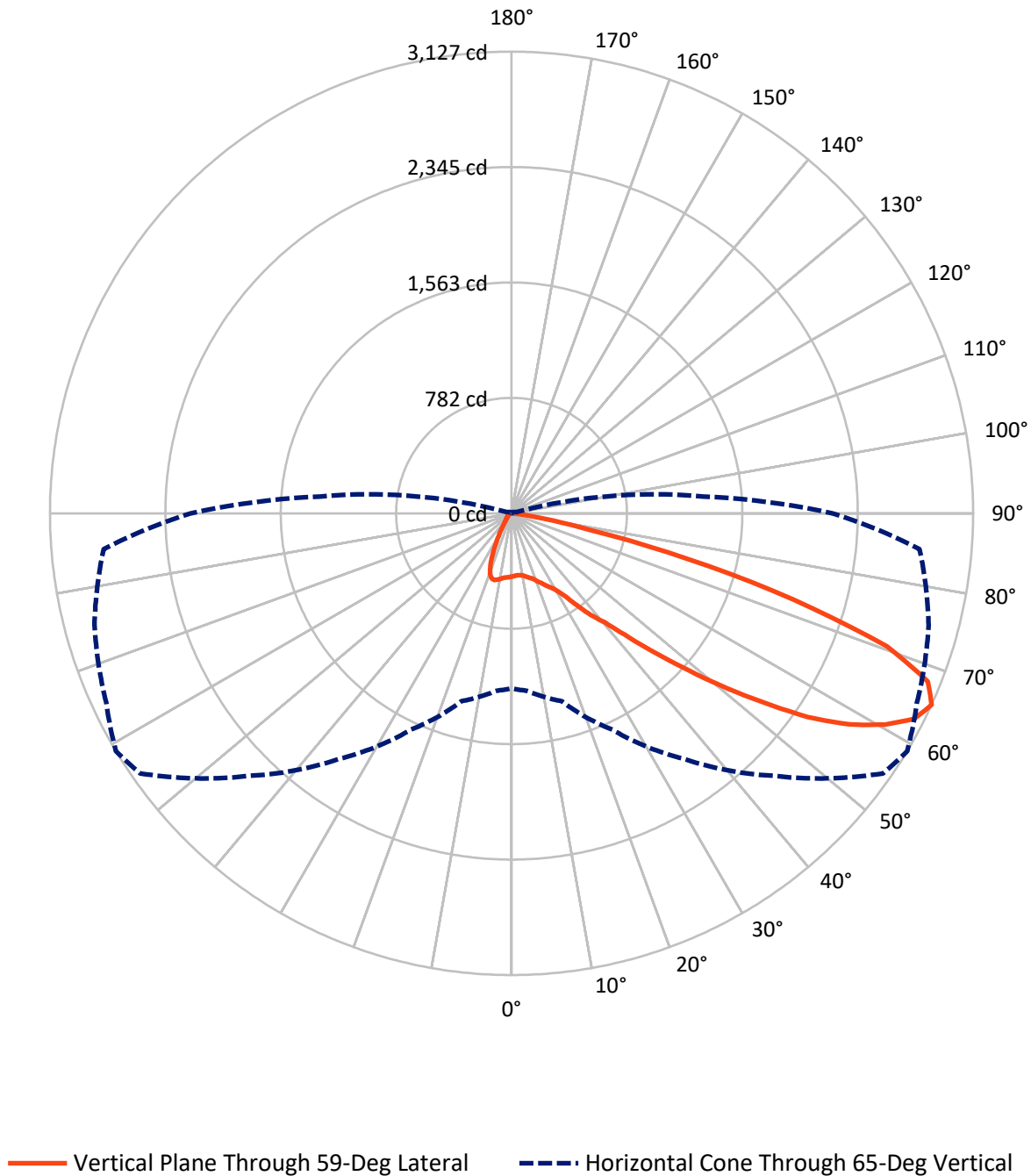
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

REPORT NUMBER: P573197
CATALOG NUMBER: ARCH-S-PA2-40-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P573197

CATALOG NUMBER: ARCH-S-PA2-40-830-U-T3-HSS

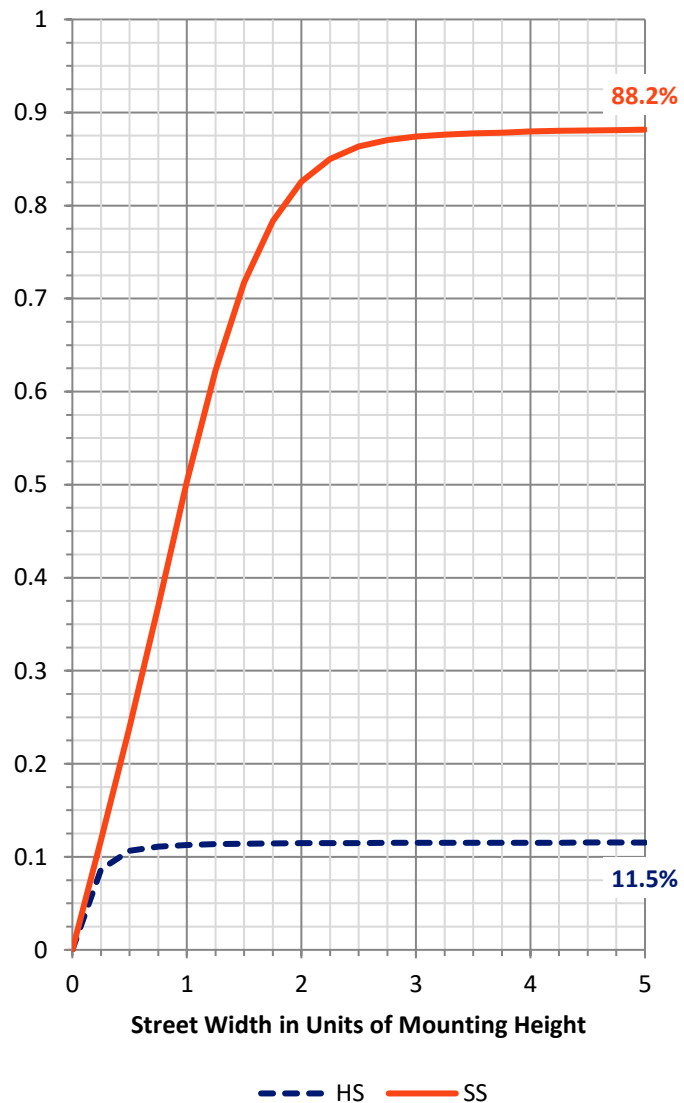
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	462.2	0.0	462.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	3499.8	0.0	3499.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	3962.0	0.0	3962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.0
10°-20°	114.9	2.9
20°-30°	195.2	4.9
30°-40°	345.8	8.7
40°-50°	652.3	16.5
50°-60°	1103.7	27.9
60°-70°	1147.5	29.0
70°-80°	344.1	8.7
80°-90°	18.0	0.5
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°	3962.0	100.0
0°-180°	3962.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573197

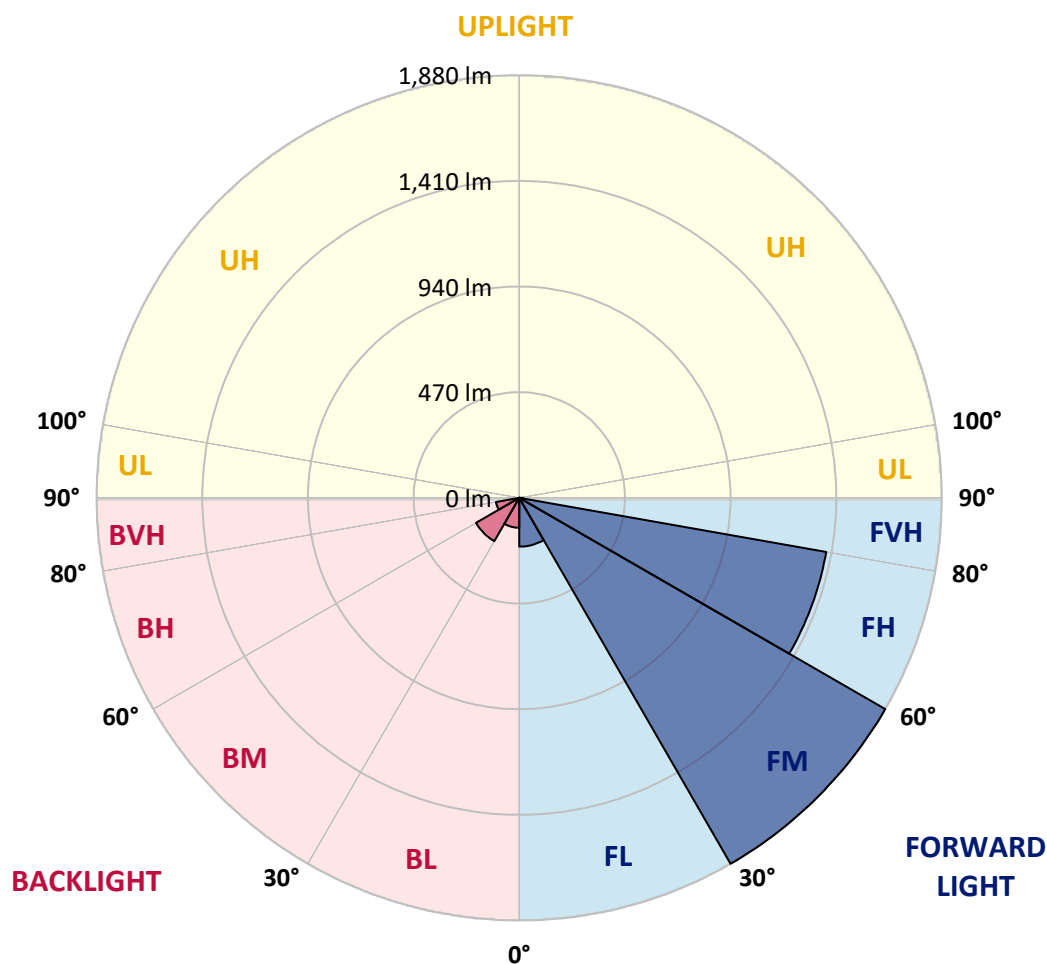
CATALOG NUMBER: ARCH-S-PA2-40-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.3	5.5			
FM	(30°-60°)	1879.6	47.4			
FH	(60°-80°)	1386.4	35.0			G1/1800
FVH	(80°-90°)	16.5	0.4			G1/100
BL	(0°-30°)	133.3	3.4	B1/500		
BM	(30°-60°)	222.2	5.6	B1/1000		
BH	(60°-80°)	105.2	2.7	B0/110		G0/110
BVH	(80°-90°)	1.5	0.0			G0/10
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



REPORT NUMBER: P573197

CATALOG NUMBER: ARCH-S-PA2-40-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
2.5°	416.6	415.2	415.2	418.0	419.5	420.9	423.8	423.8	423.8	426.7	428.1
5°	396.4	396.4	397.9	400.7	406.5	410.8	419.5	420.9	422.4	429.6	432.5
7.5°	383.4	383.4	384.9	390.7	397.9	408.0	419.5	422.4	426.7	436.8	444.0
10°	382.0	380.6	383.4	389.2	397.9	410.8	423.8	428.1	436.8	449.8	459.8
12.5°	386.3	384.9	387.8	393.5	402.2	415.2	432.5	439.7	449.8	467.1	481.5
15°	389.2	387.8	390.7	397.9	408.0	423.8	444.0	452.6	465.6	490.1	504.5
17.5°	397.9	396.4	397.9	403.6	413.7	431.0	457.0	465.6	487.2	514.6	530.5
20°	436.8	435.3	426.7	423.8	425.3	441.1	474.3	488.7	514.6	549.2	560.8
22.5°	517.5	511.7	495.9	469.9	452.6	458.4	495.9	511.7	546.3	585.3	593.9
25°	625.6	621.3	598.2	553.5	504.5	490.1	520.4	542.0	583.8	627.1	624.2
27.5°	748.2	739.5	717.9	655.9	589.6	542.0	550.7	569.4	615.5	661.7	647.2
30°	854.8	851.9	827.4	775.5	697.7	627.1	596.8	606.9	648.7	697.7	680.4
32.5°	952.8	944.2	924.0	875.0	802.9	730.9	670.3	670.3	704.9	762.6	736.6
35°	1061.0	1055.2	1030.7	981.7	912.5	827.4	772.7	766.9	795.7	860.6	804.4
37.5°	1172.0	1157.5	1146.0	1095.6	1026.4	952.8	886.5	873.6	888.0	935.6	866.4
40°	1310.3	1310.3	1284.4	1238.3	1173.4	1095.6	1003.3	970.1	965.8	1027.8	974.5
42.5°	1471.8	1467.5	1445.9	1402.6	1340.6	1268.5	1151.8	1121.5	1118.6	1193.6	1130.2
45°	1657.8	1654.9	1628.9	1592.9	1549.6	1470.4	1355.0	1324.8	1307.5	1394.0	1319.0
47.5°	1827.9	1817.8	1809.1	1813.4	1788.9	1699.6	1591.4	1555.4	1554.0	1621.7	1525.1
50°	1944.6	1938.9	1969.1	1998.0	2044.1	1987.9	1859.6	1827.9	1803.4	1892.7	1739.9
52.5°	2021.0	2018.1	2078.7	2160.8	2256.0	2251.7	2137.8	2119.0	2098.9	2123.4	1931.6
55°	2051.3	2051.3	2123.4	2274.7	2441.9	2514.0	2460.7	2434.7	2364.1	2313.7	2142.1
57.5°	2015.3	2010.9	2104.6	2302.1	2557.3	2705.7	2728.8	2698.5	2587.5	2531.3	2375.6
60°	1862.5	1865.3	1976.3	2225.7	2548.6	2783.6	2932.1	2904.7	2793.7	2710.1	2571.7
62.5°	1577.0	1601.5	1718.3	1989.3	2364.1	2721.6	3048.8	3063.2	2943.6	2839.8	2746.1
65°	1184.9	1206.6	1317.6	1617.4	2028.2	2514.0	3070.5	3126.7	3030.1	2924.9	2773.5
67.5°	720.8	728.0	863.5	1089.8	1493.4	2094.5	2919.1	3041.6	2972.4	2799.4	2502.5
70°	335.9	354.6	420.9	595.4	945.6	1542.4	2522.7	2695.7	2617.8	2403.0	1902.8
72.5°	131.2	136.9	178.7	275.3	501.7	970.1	1882.6	1998.0	1944.6	1706.8	1134.5
75°	64.9	69.2	86.5	131.2	229.2	400.7	1150.3	1225.3	1137.4	857.7	480.0
77.5°	47.6	47.6	57.7	80.7	125.4	148.5	484.4	543.5	513.2	331.6	131.2
80°	31.7	34.6	40.4	54.8	79.3	72.1	183.1	217.7	181.6	102.3	46.1
82.5°	18.7	20.2	30.3	38.9	53.3	41.8	62.0	69.2	75.0	50.5	21.6
85°	10.1	10.1	20.2	28.8	28.8	18.7	21.6	24.5	28.8	30.3	11.5
87.5°	2.9	2.9	13.0	17.3	11.5	10.1	11.5	11.5	13.0	15.9	5.8
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: P573197

CATALOG NUMBER: ARCH-S-PA2-40-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1	428.1
2.5°	429.6	429.6	431.0	431.0	432.5	432.5	432.5	432.5	433.9	435.3	435.3
5°	433.9	435.3	435.3	435.3	435.3	432.5	431.0	429.6	429.6	431.0	431.0
7.5°	445.4	446.9	445.4	442.5	438.2	432.5	426.7	426.7	425.3	426.7	425.3
10°	462.7	462.7	461.3	454.1	446.9	435.3	423.8	415.2	409.4	408.0	405.1
12.5°	484.4	484.4	480.0	467.1	454.1	432.5	402.2	373.4	350.3	340.2	337.3
15°	506.0	506.0	500.2	481.5	455.5	403.6	340.2	279.7	245.1	230.6	222.0
17.5°	531.9	529.0	518.9	493.0	439.7	346.0	243.6	181.6	154.2	141.3	141.3
20°	559.3	556.4	537.7	494.4	399.3	247.9	158.6	125.4	118.2	115.3	115.3
22.5°	589.6	582.4	553.5	482.9	314.3	168.7	119.6	111.0	108.1	106.7	106.7
25°	614.1	602.6	565.1	451.2	224.9	118.2	105.2	102.3	96.6	95.1	92.3
27.5°	632.8	615.5	569.4	383.4	148.5	98.0	93.7	87.9	82.2	76.4	76.4
30°	657.3	635.7	572.3	298.4	100.9	85.1	80.7	73.5	66.3	60.5	60.5
32.5°	706.3	674.6	573.7	209.0	83.6	75.0	66.3	57.7	50.5	47.6	46.1
35°	759.7	716.4	557.9	135.5	73.5	63.4	53.3	46.1	38.9	37.5	37.5
37.5°	818.8	778.4	523.3	92.3	64.9	53.3	43.2	36.0	31.7	30.3	30.3
40°	918.3	870.7	465.6	73.5	56.2	44.7	36.0	30.3	27.4	25.9	25.9
42.5°	1061.0	978.8	393.5	63.4	49.0	37.5	28.8	24.5	23.1	21.6	21.6
45°	1225.3	1099.9	309.9	57.7	43.2	31.7	24.5	21.6	20.2	18.7	18.7
47.5°	1414.1	1225.3	245.1	50.5	37.5	27.4	21.6	18.7	17.3	15.9	15.9
50°	1592.9	1323.3	184.5	44.7	33.2	23.1	18.7	17.3	15.9	14.4	14.4
52.5°	1739.9	1389.6	139.8	38.9	28.8	20.2	17.3	15.9	13.0	13.0	13.0
55°	1917.2	1441.5	106.7	34.6	25.9	18.7	15.9	13.0	11.5	10.1	10.1
57.5°	2071.5	1460.3	77.8	30.3	23.1	17.3	14.4	11.5	8.6	7.2	7.2
60°	2175.3	1444.4	56.2	25.9	20.2	14.4	11.5	8.6	5.8	4.3	4.3
62.5°	2248.8	1409.8	43.2	23.1	17.3	13.0	10.1	7.2	4.3	2.9	2.9
65°	2175.3	1303.1	34.6	20.2	14.4	11.5	7.2	5.8	2.9	1.4	1.4
67.5°	1881.2	1092.7	27.4	17.3	13.0	10.1	7.2	4.3	1.4	0.0	0.0
70°	1352.2	779.9	23.1	15.9	11.5	8.6	5.8	2.9	1.4	0.0	0.0
72.5°	753.9	402.2	21.6	14.4	11.5	8.6	5.8	2.9	1.4	0.0	0.0
75°	305.6	138.4	20.2	14.4	11.5	7.2	5.8	2.9	1.4	0.0	0.0
77.5°	89.4	47.6	17.3	13.0	11.5	8.6	5.8	2.9	1.4	0.0	0.0
80°	31.7	21.6	13.0	11.5	8.6	7.2	5.8	4.3	1.4	0.0	0.0
82.5°	14.4	8.6	5.8	4.3	4.3	4.3	4.3	2.9	1.4	0.0	0.0
85°	5.8	4.3	2.9	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0
87.5°	4.3	2.9	1.4	1.4	1.4	1.4	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)