

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: P572657

Luminaire Tested: **ARCH-S-PA2-100-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572657
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-PA2-100-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA 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: 9425 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

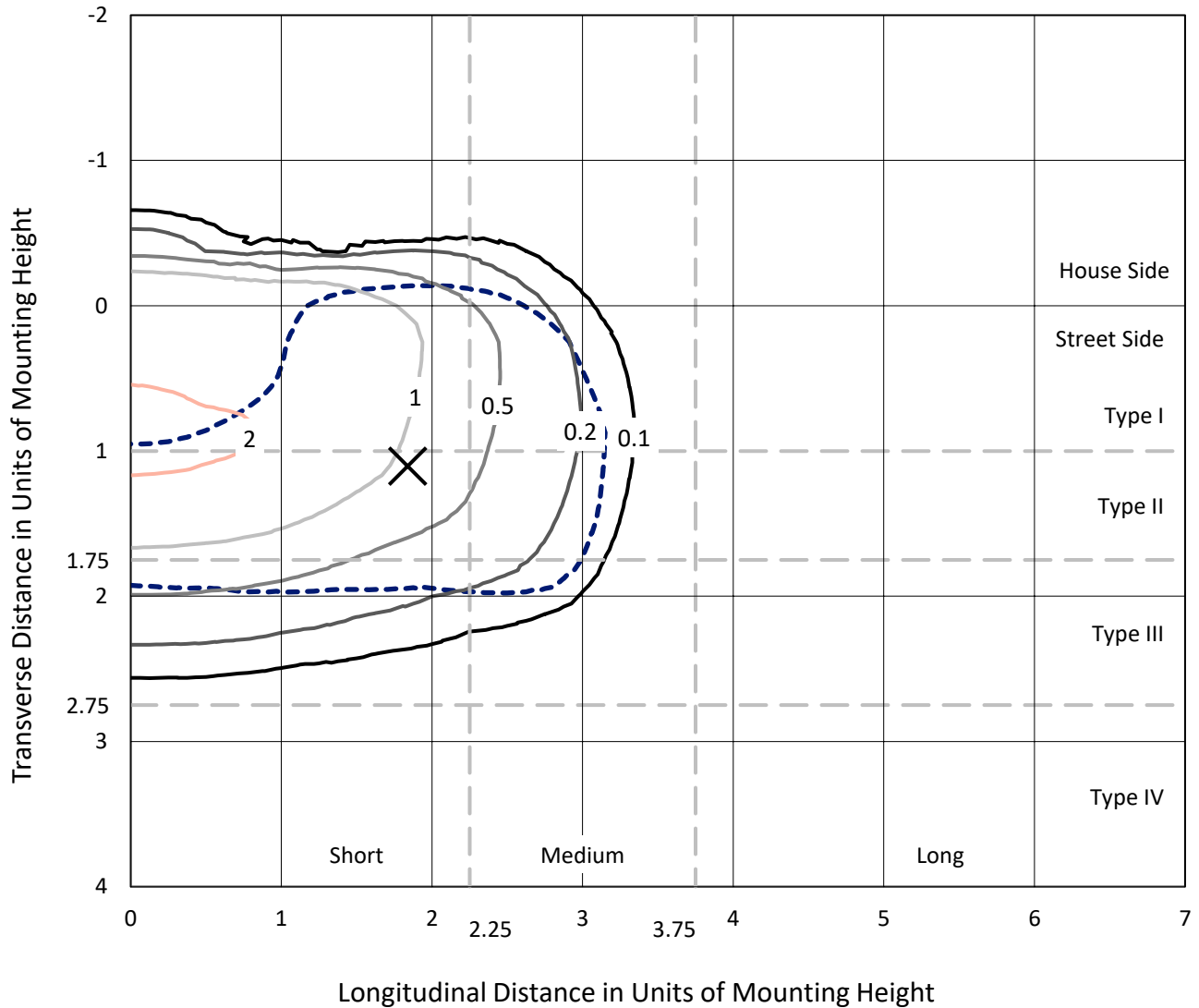
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572657
 CATALOG NUMBER: ARCH-S-PA2-100-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

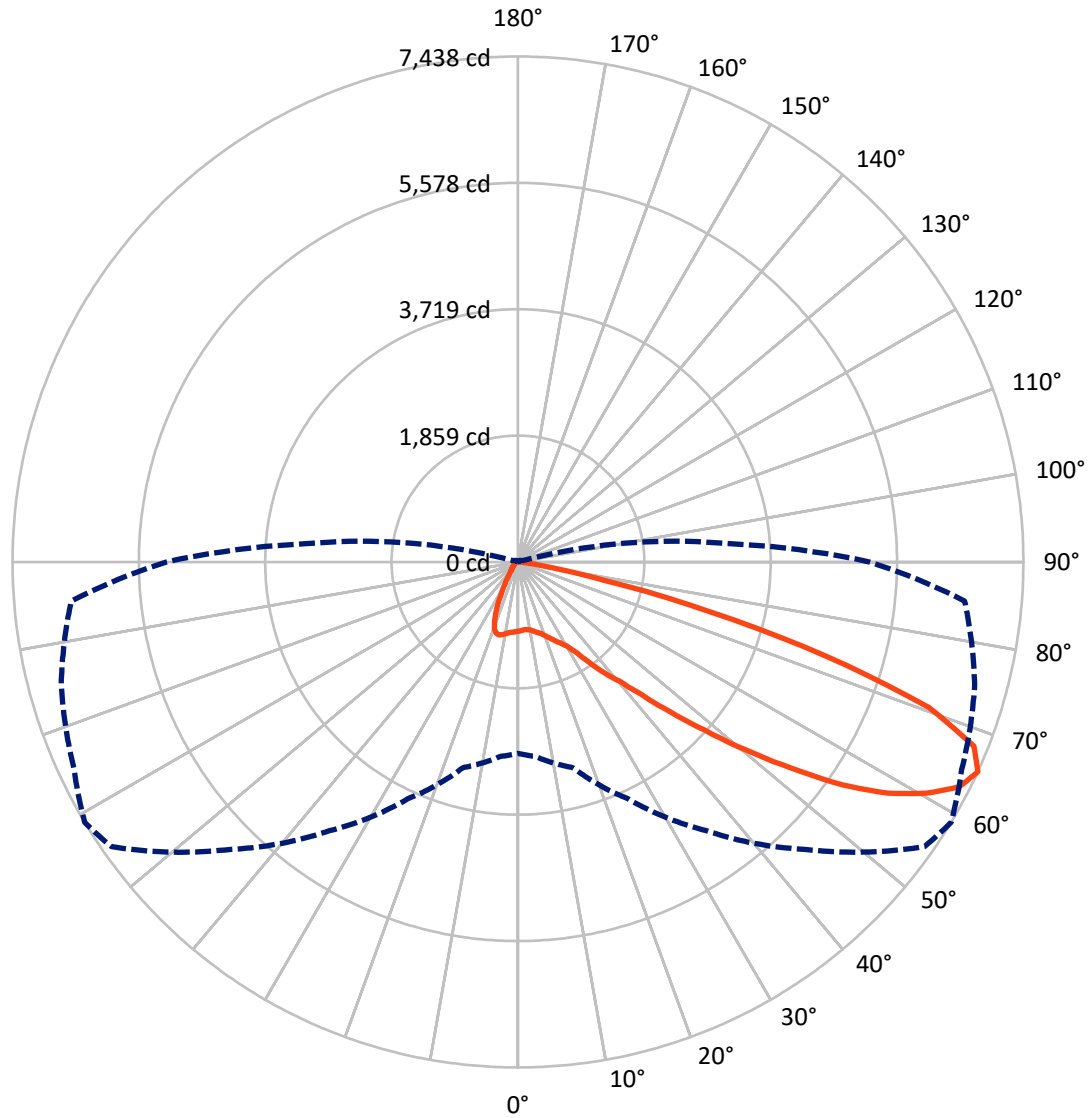
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

REPORT NUMBER: P572657
CATALOG NUMBER: ARCH-S-PA2-100-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: ARCH-S-PA2-100-730-U-T3-HSS

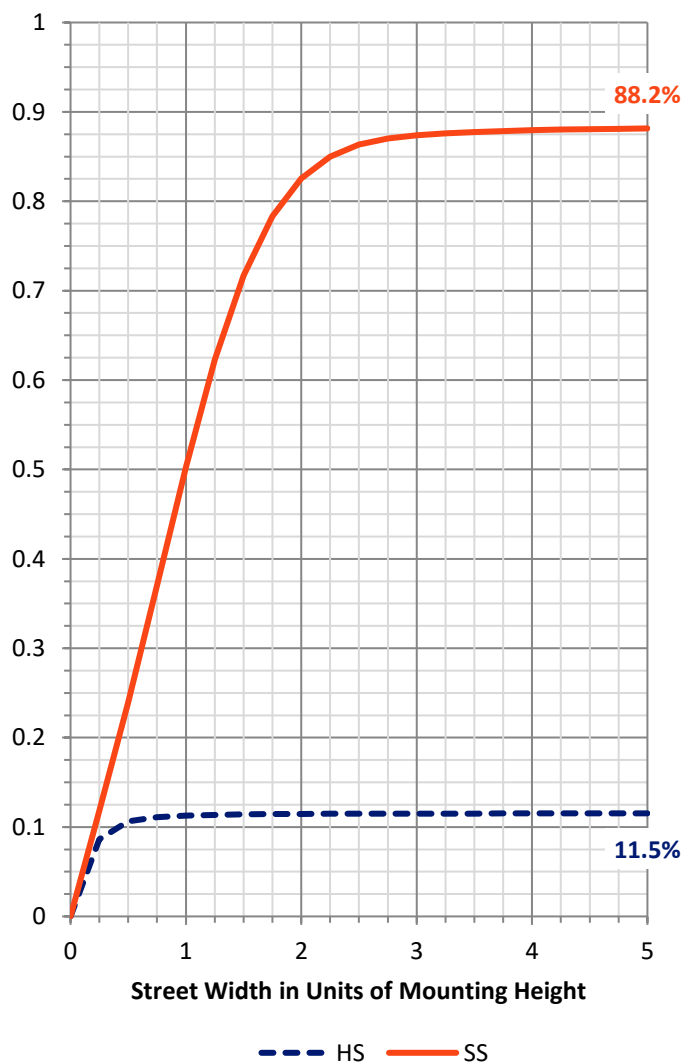
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1099.5	0.0	1099.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8325.5	0.0	8325.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	9425.0	0.0	9425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.2	1.0
10°-20°	273.4	2.9
20°-30°	464.4	4.9
30°-40°	822.6	8.7
40°-50°	1551.7	16.5
50°-60°	2625.5	27.9
60°-70°	2729.7	29.0
70°-80°	818.6	8.7
80°-90°	42.9	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°	9425.0	100.0
0°-180°	9425.0	100.0

Coefficient of Utilization

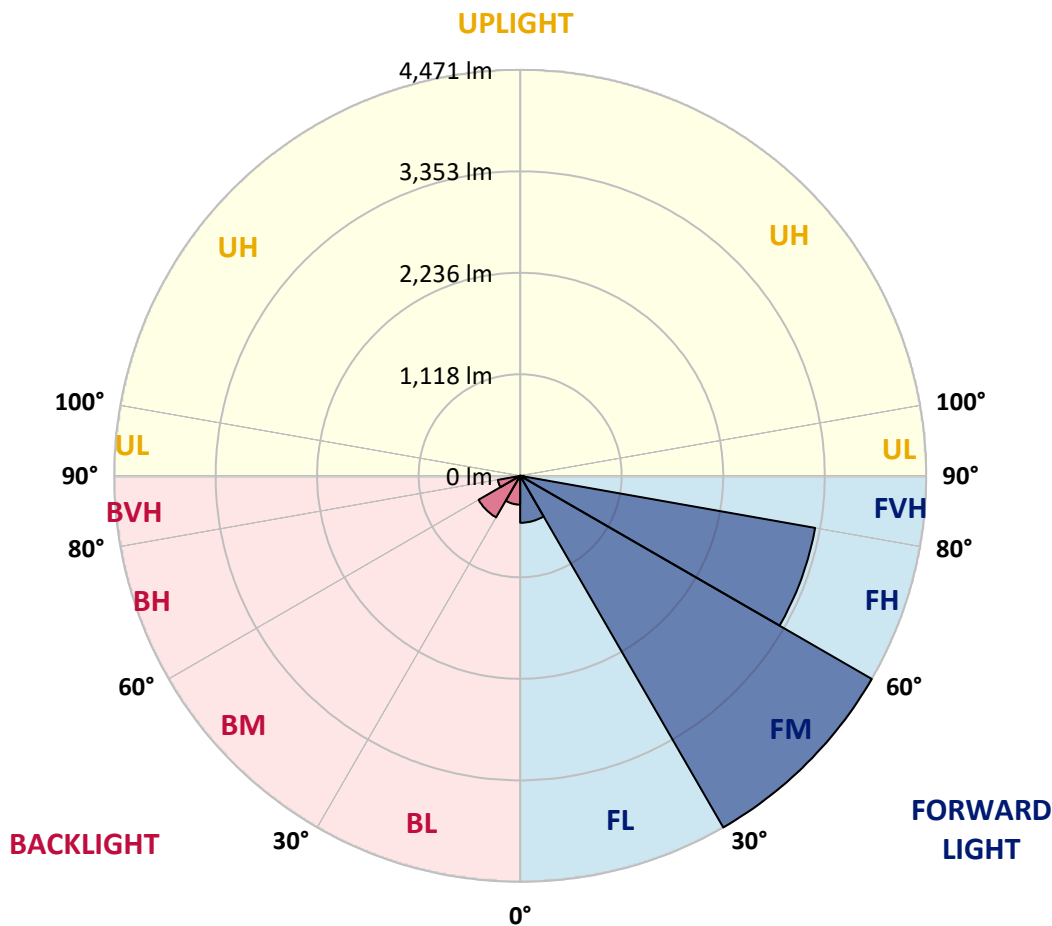


REPORT NUMBER: P572657
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.9	5.5			
FM (30°-60°)	4471.3	47.4			
FH (60°-80°)	3298.1	35.0			G2/5000
FVH (80°-90°)	39.3	0.4			G1/100
BL (0°-30°)	317.2	3.4	B1/500		
BM (30°-60°)	528.6	5.6	B1/1000		
BH (60°-80°)	250.2	2.7	B1/500		G1/500
BVH (80°-90°)	3.6	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-G2
 Type III Short





REPORT NUMBER: P572657

CATALOG NUMBER: ARCH-S-PA2-100-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	991.0	987.6	987.6	994.5	997.9	1001.3	1008.2	1008.2	1008.2	1015.0	1018.5
5°	943.0	943.0	946.5	953.3	967.0	977.3	997.9	1001.3	1004.7	1021.9	1028.8
7.5°	912.2	912.2	915.6	929.3	946.5	970.5	997.9	1004.7	1015.0	1039.0	1056.2
10°	908.7	905.3	912.2	925.9	946.5	977.3	1008.2	1018.5	1039.0	1069.9	1093.9
12.5°	919.0	915.6	922.4	936.2	956.7	987.6	1028.8	1045.9	1069.9	1111.1	1145.3
15°	925.9	922.4	929.3	946.5	970.5	1008.2	1056.2	1076.8	1107.6	1165.9	1200.2
17.5°	946.5	943.0	946.5	960.2	984.2	1025.3	1087.0	1107.6	1159.1	1224.2	1261.9
20°	1039.0	1035.6	1015.0	1008.2	1011.6	1049.3	1128.2	1162.5	1224.2	1306.5	1333.9
22.5°	1231.1	1217.4	1179.6	1117.9	1076.8	1090.5	1179.6	1217.4	1299.7	1392.2	1412.8
25°	1488.3	1478.0	1423.1	1316.8	1200.2	1165.9	1237.9	1289.4	1388.8	1491.7	1484.8
27.5°	1779.7	1759.2	1707.7	1560.3	1402.5	1289.4	1309.9	1354.5	1464.3	1574.0	1539.7
30°	2033.5	2026.6	1968.3	1844.9	1659.7	1491.7	1419.7	1443.7	1543.1	1659.7	1618.6
32.5°	2266.7	2246.1	2198.1	2081.5	1910.1	1738.6	1594.6	1594.6	1676.9	1814.0	1752.3
35°	2523.9	2510.2	2451.9	2335.3	2170.7	1968.3	1838.0	1824.3	1892.9	2047.2	1913.5
37.5°	2787.9	2753.6	2726.2	2606.2	2441.6	2266.7	2108.9	2078.1	2112.4	2225.5	2060.9
40°	3117.1	3117.1	3055.4	2945.7	2791.3	2606.2	2386.7	2307.8	2297.5	2445.0	2318.1
42.5°	3501.2	3490.9	3439.5	3336.6	3189.1	3017.7	2739.9	2667.9	2661.0	2839.4	2688.5
45°	3943.6	3936.7	3875.0	3789.2	3686.4	3497.8	3223.4	3151.4	3110.3	3316.0	3137.7
47.5°	4348.2	4324.2	4303.6	4313.9	4255.6	4043.0	3785.8	3700.1	3696.7	3857.8	3628.1
50°	4626.0	4612.2	4684.3	4752.8	4862.6	4728.8	4423.6	4348.2	4289.9	4502.5	4139.0
52.5°	4807.7	4800.8	4944.9	5140.3	5366.7	5356.4	5085.5	5040.9	4992.9	5051.2	4595.1
55°	4879.7	4879.7	5051.2	5411.2	5809.0	5980.5	5853.6	5791.9	5623.8	5503.8	5095.8
57.5°	4794.0	4783.7	5006.6	5476.4	6083.4	6436.6	6491.4	6419.4	6155.4	6021.6	5651.3
60°	4430.5	4437.4	4701.4	5294.6	6062.8	6621.7	6974.9	6909.8	6645.7	6446.8	6117.6
62.5°	3751.5	3809.8	4087.6	4732.3	5623.8	6474.3	7252.7	7287.0	7002.4	6755.5	6532.6
65°	2818.8	2870.2	3134.3	3847.5	4824.8	5980.5	7304.1	7437.9	7208.1	6957.8	6597.7
67.5°	1714.6	1731.7	2054.1	2592.5	3552.6	4982.6	6944.1	7235.6	7071.0	6659.5	5953.0
70°	799.0	843.6	1001.3	1416.2	2249.5	3669.2	6001.1	6412.6	6227.4	5716.4	4526.5
72.5°	312.1	325.8	425.2	655.0	1193.4	2307.8	4478.5	4752.8	4626.0	4060.1	2698.8
75°	154.3	164.6	205.8	312.1	545.2	953.3	2736.5	2914.8	2705.6	2040.4	1141.9
77.5°	113.2	113.2	137.2	192.0	298.3	353.2	1152.2	1292.8	1220.8	788.7	312.1
80°	75.4	82.3	96.0	130.3	188.6	171.5	435.5	517.8	432.1	243.5	109.7
82.5°	44.6	48.0	72.0	92.6	126.9	99.4	147.5	164.6	178.3	120.0	51.4
85°	24.0	24.0	48.0	68.6	68.6	44.6	51.4	58.3	68.6	72.0	27.4
87.5°	6.9	6.9	30.9	41.2	27.4	24.0	27.4	27.4	30.9	37.7	13.7
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: P572657

CATALOG NUMBER: ARCH-S-PA2-100-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1021.9	1021.9	1025.3	1025.3	1028.8	1028.8	1028.8	1028.8	1032.2	1035.6	1035.6
5°	1032.2	1035.6	1035.6	1035.6	1035.6	1028.8	1025.3	1021.9	1021.9	1025.3	1025.3
7.5°	1059.6	1063.0	1059.6	1052.8	1042.5	1028.8	1015.0	1015.0	1011.6	1015.0	1011.6
10°	1100.8	1100.8	1097.3	1080.2	1063.0	1035.6	1008.2	987.6	973.9	970.5	963.6
12.5°	1152.2	1152.2	1141.9	1111.1	1080.2	1028.8	956.7	888.2	833.3	809.3	802.4
15°	1203.6	1203.6	1189.9	1145.3	1083.6	960.2	809.3	665.3	583.0	548.7	528.1
17.5°	1265.4	1258.5	1234.5	1172.8	1045.9	823.0	579.5	432.1	366.9	336.1	336.1
20°	1330.5	1323.7	1279.1	1176.2	949.9	589.8	377.2	298.3	281.2	274.3	274.3
22.5°	1402.5	1385.4	1316.8	1148.8	747.6	401.2	284.6	264.0	257.2	253.8	253.8
25°	1460.8	1433.4	1344.2	1073.3	535.0	281.2	250.3	243.5	229.8	226.3	219.5
27.5°	1505.4	1464.3	1354.5	912.2	353.2	233.2	222.9	209.2	195.5	181.7	181.7
30°	1563.7	1512.3	1361.4	709.8	240.0	202.3	192.0	174.9	157.7	144.0	144.0
32.5°	1680.3	1604.9	1364.8	497.2	198.9	178.3	157.7	137.2	120.0	113.2	109.7
35°	1807.2	1704.3	1327.1	322.3	174.9	150.9	126.9	109.7	92.6	89.2	89.2
37.5°	1947.8	1851.8	1244.8	219.5	154.3	126.9	102.9	85.7	75.4	72.0	72.0
40°	2184.4	2071.2	1107.6	174.9	133.7	106.3	85.7	72.0	65.2	61.7	61.7
42.5°	2523.9	2328.4	936.2	150.9	116.6	89.2	68.6	58.3	54.9	51.4	51.4
45°	2914.8	2616.5	737.3	137.2	102.9	75.4	58.3	51.4	48.0	44.6	44.6
47.5°	3364.0	2914.8	583.0	120.0	89.2	65.2	51.4	44.6	41.2	37.7	37.7
50°	3789.2	3148.0	438.9	106.3	78.9	54.9	44.6	41.2	37.7	34.3	34.3
52.5°	4139.0	3305.7	332.6	92.6	68.6	48.0	41.2	37.7	30.9	30.9	30.9
55°	4560.8	3429.2	253.8	82.3	61.7	44.6	37.7	30.9	27.4	24.0	24.0
57.5°	4927.7	3473.8	185.2	72.0	54.9	41.2	34.3	27.4	20.6	17.1	17.1
60°	5174.6	3436.0	133.7	61.7	48.0	34.3	27.4	20.6	13.7	10.3	10.3
62.5°	5349.5	3353.7	102.9	54.9	41.2	30.9	24.0	17.1	10.3	6.9	6.9
65°	5174.6	3100.0	82.3	48.0	34.3	27.4	17.1	13.7	6.9	3.4	3.4
67.5°	4475.1	2599.3	65.2	41.2	30.9	24.0	17.1	10.3	3.4	0.0	0.0
70°	3216.6	1855.2	54.9	37.7	27.4	20.6	13.7	6.9	3.4	0.0	0.0
72.5°	1793.5	956.7	51.4	34.3	27.4	20.6	13.7	6.9	3.4	0.0	0.0
75°	727.0	329.2	48.0	34.3	27.4	17.1	13.7	6.9	3.4	0.0	0.0
77.5°	212.6	113.2	41.2	30.9	27.4	20.6	13.7	6.9	3.4	0.0	0.0
80°	75.4	51.4	30.9	27.4	20.6	17.1	13.7	10.3	3.4	0.0	0.0
82.5°	34.3	20.6	13.7	10.3	10.3	10.3	10.3	6.9	3.4	0.0	0.0
85°	13.7	10.3	6.9	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0
87.5°	10.3	6.9	3.4	3.4	3.4	3.4	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)