

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: P573413

Luminaire Tested: **ARCH-S-PA2-70-750-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573413
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-PA2-70-750-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 725mA 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: 7967 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

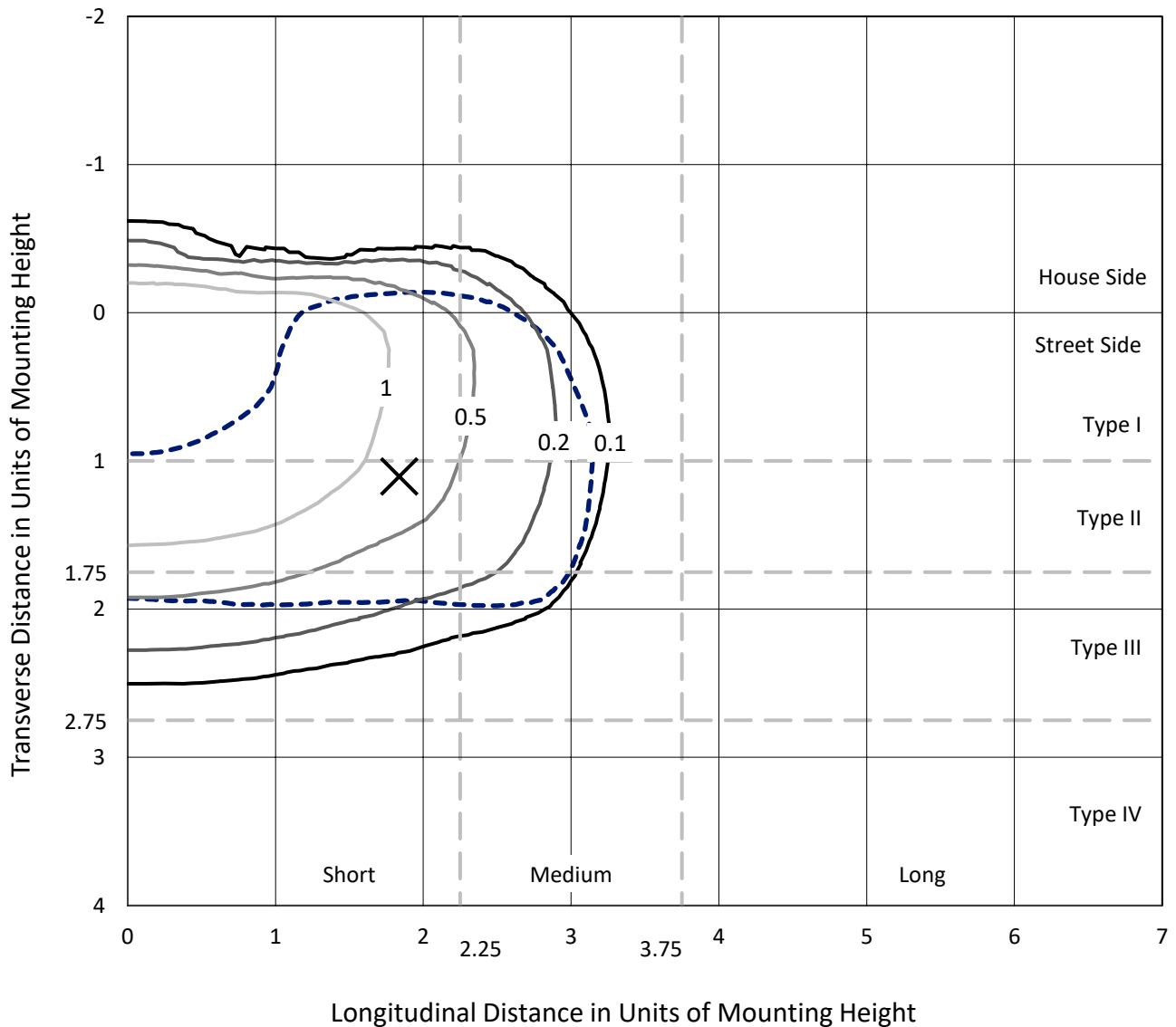
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573413
 CATALOG NUMBER: ARCH-S-PA2-70-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

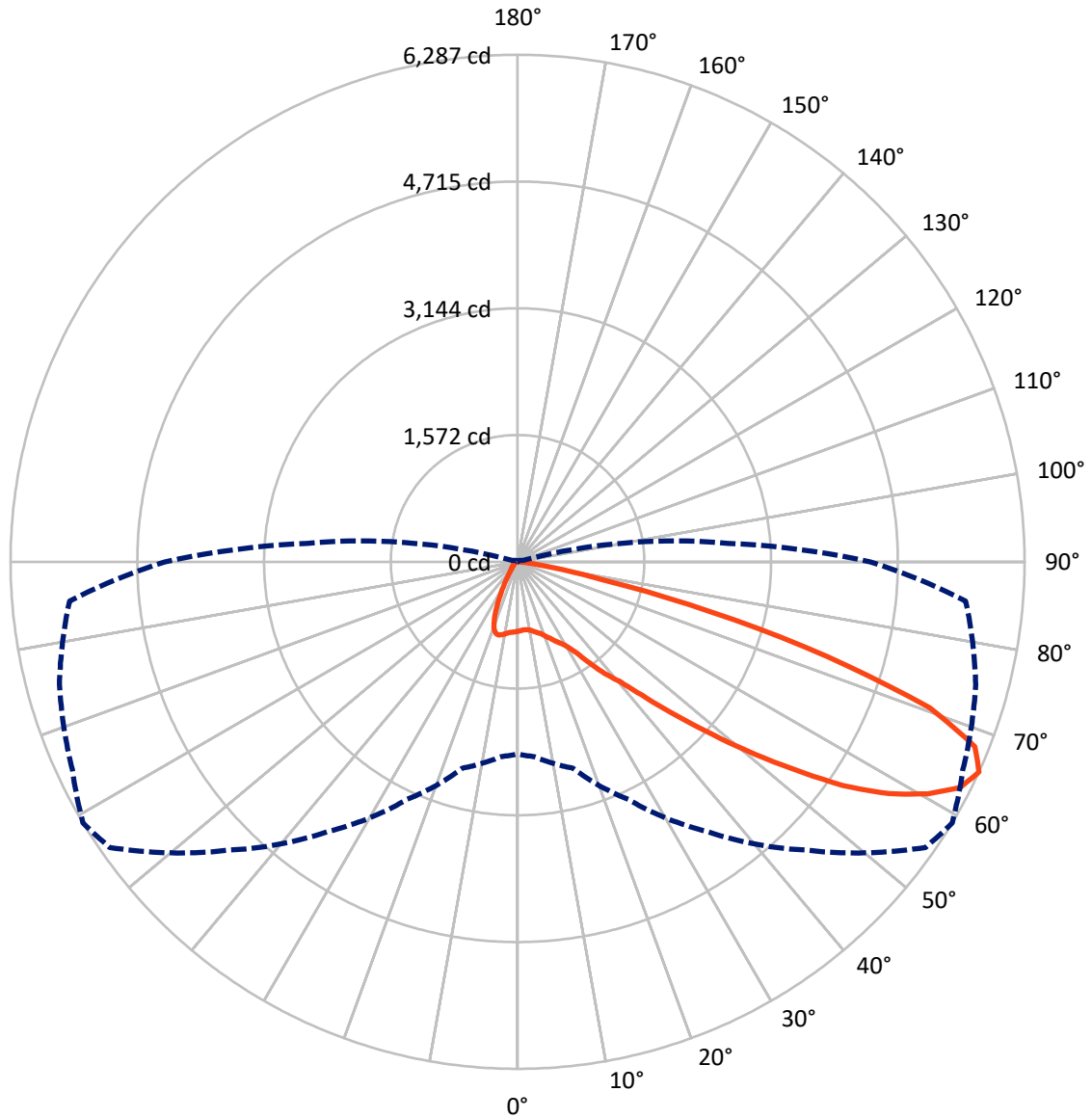
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P573413
CATALOG NUMBER: ARCH-S-PA2-70-750-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P573413
 CATALOG NUMBER: ARCH-S-PA2-70-750-U-T3-HSS

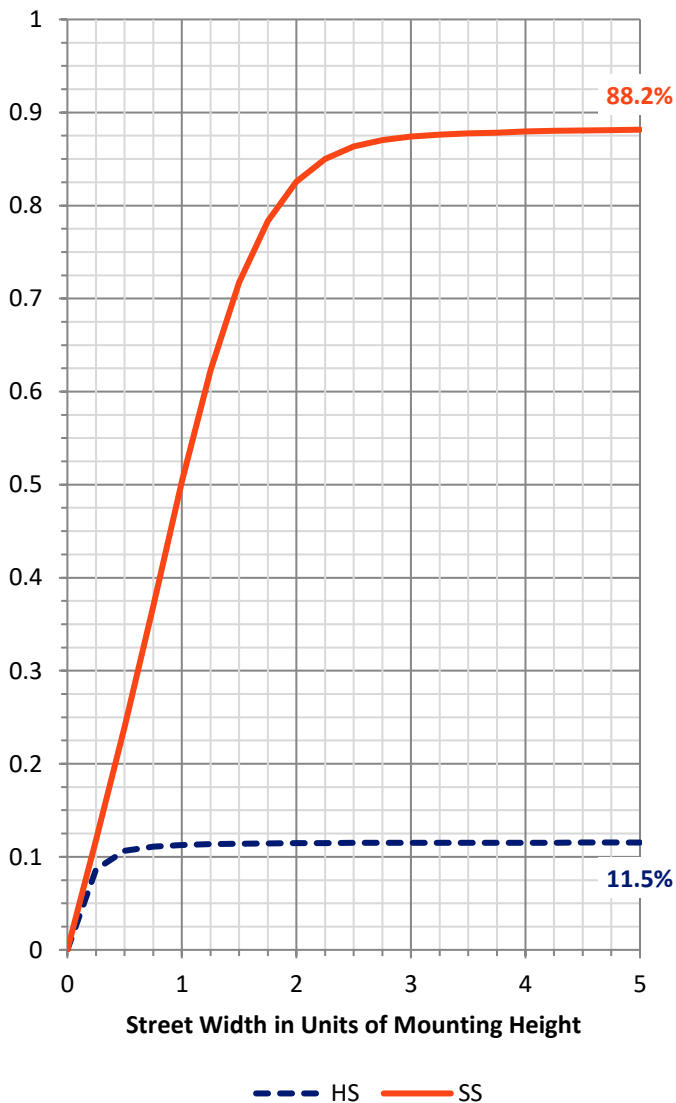
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	929.5	0.0	929.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7037.6	0.0	7037.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	7967.0	0.0	7967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.0
10°-20°	231.1	2.9
20°-30°	392.5	4.9
30°-40°	695.3	8.7
40°-50°	1311.7	16.5
50°-60°	2219.3	27.9
60°-70°	2307.4	29.0
70°-80°	691.9	8.7
80°-90°	36.3	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°	7967.0	100.0
0°-180°	7967.0	100.0

Coefficient of Utilization



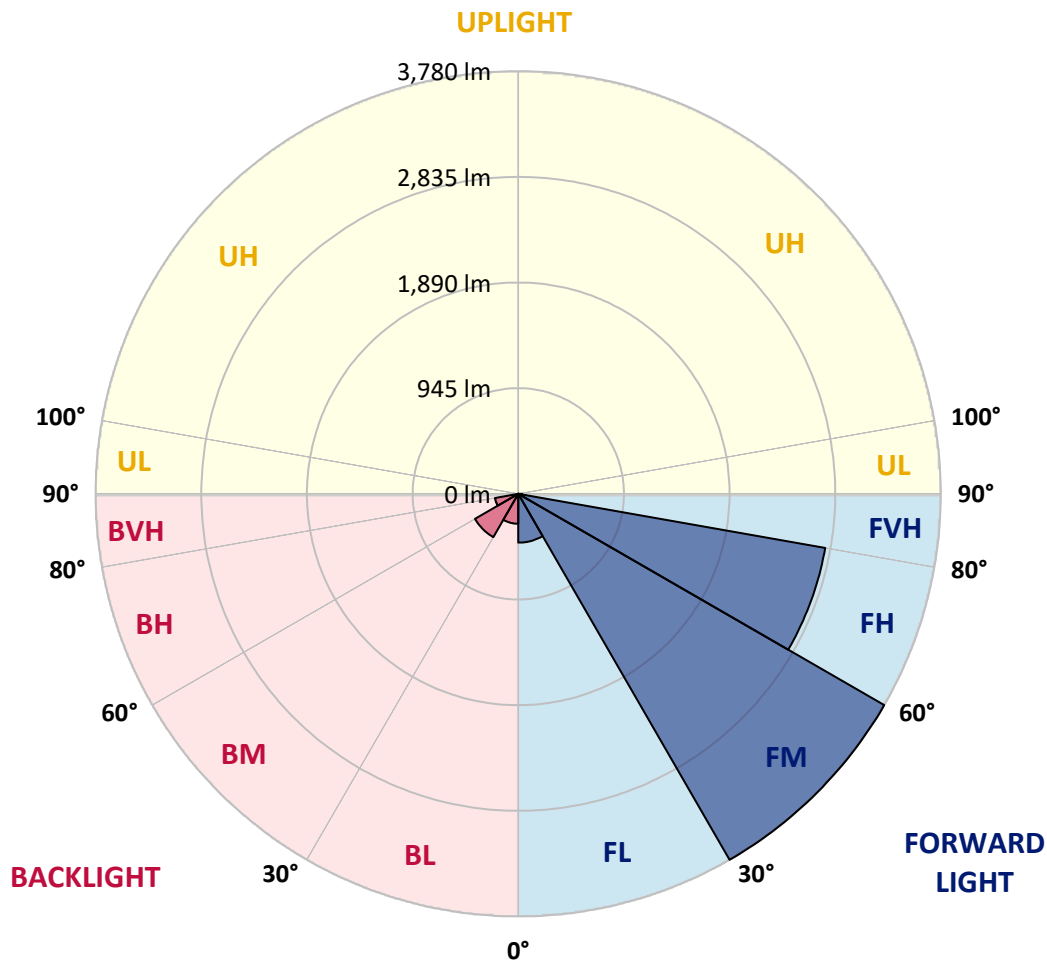
REPORT NUMBER: P573413
 CATALOG NUMBER: ARCH-S-PA2-70-750-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.9	5.5			
FM (30°-60°)	3779.6	47.4			
FH (60°-80°)	2787.9	35.0			G2/5000
FVH (80°-90°)	33.2	0.4			G1/100
BL (0°-30°)	268.1	3.4	B1/500		
BM (30°-60°)	446.8	5.6	B1/1000		
BH (60°-80°)	211.5	2.7	B1/500		G1/500
BVH (80°-90°)	3.1	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: P573413

CATALOG NUMBER: ARCH-S-PA2-70-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	837.7	834.8	834.8	840.6	843.5	846.4	852.2	852.2	852.2	858.0	860.9
5°	797.1	797.1	800.0	805.8	817.4	826.1	843.5	846.4	849.3	863.8	869.6
7.5°	771.1	771.1	774.0	785.5	800.0	820.3	843.5	849.3	858.0	878.3	892.8
10°	768.2	765.3	771.1	782.6	800.0	826.1	852.2	860.9	878.3	904.4	924.7
12.5°	776.9	774.0	779.7	791.3	808.7	834.8	869.6	884.1	904.4	939.2	968.2
15°	782.6	779.7	785.5	800.0	820.3	852.2	892.8	910.2	936.3	985.6	1014.5
17.5°	800.0	797.1	800.0	811.6	831.9	866.7	918.9	936.3	979.8	1034.8	1066.7
20°	878.3	875.4	858.0	852.2	855.1	887.0	953.7	982.7	1034.8	1104.4	1127.6
22.5°	1040.6	1029.0	997.2	945.0	910.2	921.8	997.2	1029.0	1098.6	1176.9	1194.3
25°	1258.0	1249.3	1203.0	1113.1	1014.5	985.6	1046.4	1089.9	1174.0	1260.9	1255.1
27.5°	1504.4	1487.0	1443.6	1318.9	1185.6	1089.9	1107.3	1145.0	1237.7	1330.5	1301.5
30°	1718.9	1713.1	1663.9	1559.5	1403.0	1260.9	1200.1	1220.4	1304.4	1403.0	1368.2
32.5°	1916.0	1898.6	1858.1	1759.5	1614.6	1469.6	1347.9	1347.9	1417.5	1533.4	1481.2
35°	2133.4	2121.8	2072.6	1974.0	1834.9	1663.9	1553.7	1542.1	1600.1	1730.5	1617.5
37.5°	2356.6	2327.7	2304.5	2203.0	2063.9	1916.0	1782.7	1756.6	1785.6	1881.3	1742.1
40°	2634.9	2634.9	2582.7	2490.0	2359.5	2203.0	2017.5	1950.8	1942.1	2066.8	1959.5
42.5°	2959.6	2950.9	2907.4	2820.4	2695.8	2550.9	2316.1	2255.2	2249.4	2400.1	2272.6
45°	3333.5	3327.7	3275.5	3203.1	3116.1	2956.7	2724.8	2663.9	2629.1	2803.0	2652.3
47.5°	3675.5	3655.3	3637.9	3646.6	3597.3	3417.6	3200.2	3127.7	3124.8	3261.0	3066.8
50°	3910.3	3898.7	3959.6	4017.6	4110.4	3997.3	3739.3	3675.5	3626.3	3806.0	3498.7
52.5°	4064.0	4058.2	4179.9	4345.1	4536.5	4527.8	4298.8	4261.1	4220.5	4269.8	3884.3
55°	4124.8	4124.8	4269.8	4574.1	4910.4	5055.3	4948.1	4895.9	4753.9	4652.4	4307.5
57.5°	4052.4	4043.7	4232.1	4629.2	5142.3	5440.9	5487.2	5426.4	5203.2	5090.1	4777.1
60°	3745.1	3750.9	3974.1	4475.6	5124.9	5597.4	5896.0	5840.9	5617.7	5449.6	5171.3
62.5°	3171.2	3220.5	3455.2	4000.2	4753.9	5472.7	6130.7	6159.7	5919.1	5710.4	5522.0
65°	2382.7	2426.2	2649.4	3252.3	4078.5	5055.3	6174.2	6287.3	6093.1	5881.5	5577.1
67.5°	1449.3	1463.8	1736.3	2191.4	3003.1	4211.8	5869.9	6116.3	5977.1	5629.3	5032.1
70°	675.4	713.1	846.4	1197.2	1901.5	3101.6	5072.7	5420.6	5264.0	4832.1	3826.3
72.5°	263.8	275.4	359.4	553.7	1008.7	1950.8	3785.7	4017.6	3910.3	3432.1	2281.3
75°	130.4	139.1	173.9	263.8	460.9	805.8	2313.2	2463.9	2287.1	1724.7	965.3
77.5°	95.7	95.7	115.9	162.3	252.2	298.6	974.0	1092.8	1031.9	666.7	263.8
80°	63.8	69.6	81.2	110.2	159.4	144.9	368.1	437.7	365.2	205.8	92.8
82.5°	37.7	40.6	60.9	78.3	107.3	84.1	124.6	139.1	150.7	101.5	43.5
85°	20.3	20.3	40.6	58.0	58.0	37.7	43.5	49.3	58.0	60.9	23.2
87.5°	5.8	5.8	26.1	34.8	23.2	20.3	23.2	23.2	26.1	31.9	11.6
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: P573413

CATALOG NUMBER: ARCH-S-PA2-70-750-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9	860.9
2.5°	863.8	863.8	866.7	866.7	869.6	869.6	869.6	869.6	872.5	875.4	875.4
5°	872.5	875.4	875.4	875.4	875.4	869.6	866.7	863.8	863.8	866.7	866.7
7.5°	895.7	898.6	895.7	889.9	881.2	869.6	858.0	858.0	855.1	858.0	855.1
10°	930.5	930.5	927.6	913.1	898.6	875.4	852.2	834.8	823.2	820.3	814.5
12.5°	974.0	974.0	965.3	939.2	913.1	869.6	808.7	750.8	704.4	684.1	678.3
15°	1017.4	1017.4	1005.8	968.2	916.0	811.6	684.1	562.3	492.8	463.8	446.4
17.5°	1069.6	1063.8	1043.5	991.4	884.1	695.7	489.9	365.2	310.2	284.1	284.1
20°	1124.7	1118.9	1081.2	994.3	802.9	498.6	318.9	252.2	237.7	231.9	231.9
22.5°	1185.6	1171.1	1113.1	971.1	631.9	339.1	240.6	223.2	217.4	214.5	214.5
25°	1234.8	1211.7	1136.3	907.3	452.2	237.7	211.6	205.8	194.2	191.3	185.5
27.5°	1272.5	1237.7	1145.0	771.1	298.6	197.1	188.4	176.8	165.2	153.6	153.6
30°	1321.8	1278.3	1150.8	600.0	202.9	171.0	162.3	147.8	133.3	121.7	121.7
32.5°	1420.4	1356.6	1153.7	420.3	168.1	150.7	133.3	115.9	101.5	95.7	92.8
35°	1527.6	1440.7	1121.8	272.5	147.8	127.5	107.3	92.8	78.3	75.4	75.4
37.5°	1646.5	1565.3	1052.2	185.5	130.4	107.3	87.0	72.5	63.8	60.9	60.9
40°	1846.5	1750.8	936.3	147.8	113.0	89.9	72.5	60.9	55.1	52.2	52.2
42.5°	2133.4	1968.2	791.3	127.5	98.6	75.4	58.0	49.3	46.4	43.5	43.5
45°	2463.9	2211.7	623.2	115.9	87.0	63.8	49.3	43.5	40.6	37.7	37.7
47.5°	2843.6	2463.9	492.8	101.5	75.4	55.1	43.5	37.7	34.8	31.9	31.9
50°	3203.1	2661.0	371.0	89.9	66.7	46.4	37.7	34.8	31.9	29.0	29.0
52.5°	3498.7	2794.3	281.2	78.3	58.0	40.6	34.8	31.9	26.1	26.1	26.1
55°	3855.3	2898.7	214.5	69.6	52.2	37.7	31.9	26.1	23.2	20.3	20.3
57.5°	4165.4	2936.4	156.5	60.9	46.4	34.8	29.0	23.2	17.4	14.5	14.5
60°	4374.1	2904.5	113.0	52.2	40.6	29.0	23.2	17.4	11.6	8.7	8.7
62.5°	4522.0	2834.9	87.0	46.4	34.8	26.1	20.3	14.5	8.7	5.8	5.8
65°	4374.1	2620.4	69.6	40.6	29.0	23.2	14.5	11.6	5.8	2.9	2.9
67.5°	3782.8	2197.2	55.1	34.8	26.1	20.3	14.5	8.7	2.9	0.0	0.0
70°	2719.0	1568.2	46.4	31.9	23.2	17.4	11.6	5.8	2.9	0.0	0.0
72.5°	1516.0	808.7	43.5	29.0	23.2	17.4	11.6	5.8	2.9	0.0	0.0
75°	614.5	278.3	40.6	29.0	23.2	14.5	11.6	5.8	2.9	0.0	0.0
77.5°	179.7	95.7	34.8	26.1	23.2	17.4	11.6	5.8	2.9	0.0	0.0
80°	63.8	43.5	26.1	23.2	17.4	14.5	11.6	8.7	2.9	0.0	0.0
82.5°	29.0	17.4	11.6	8.7	8.7	8.7	8.7	5.8	2.9	0.0	0.0
85°	11.6	8.7	5.8	2.9	2.9	2.9	2.9	2.9	2.9	0.0	0.0
87.5°	8.7	5.8	2.9	2.9	2.9	2.9	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)