

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: P573467

Luminaire Tested: **ARCH-S-PA2-80-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573467
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-PA2-80-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 820mA 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: 8019 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

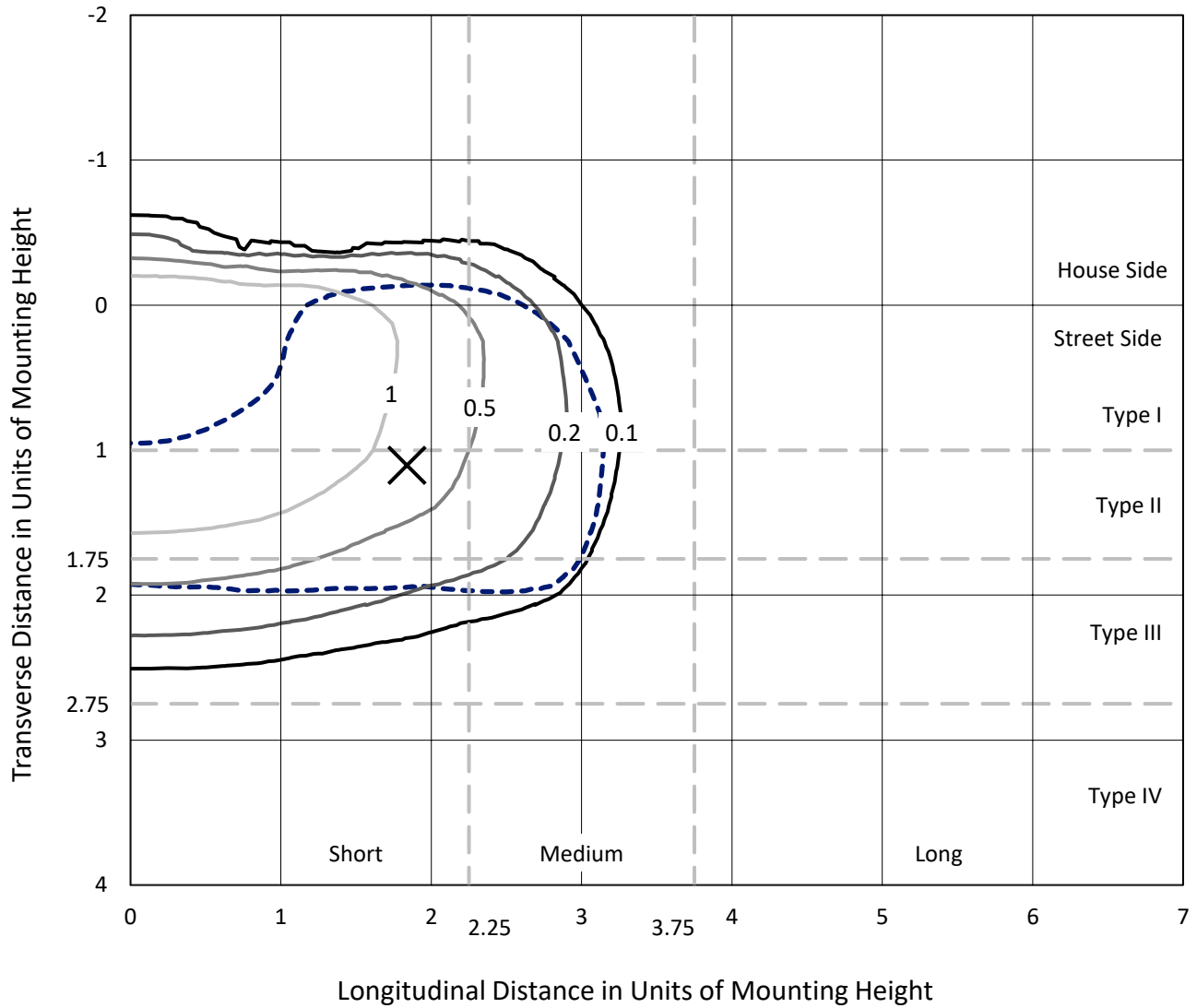
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

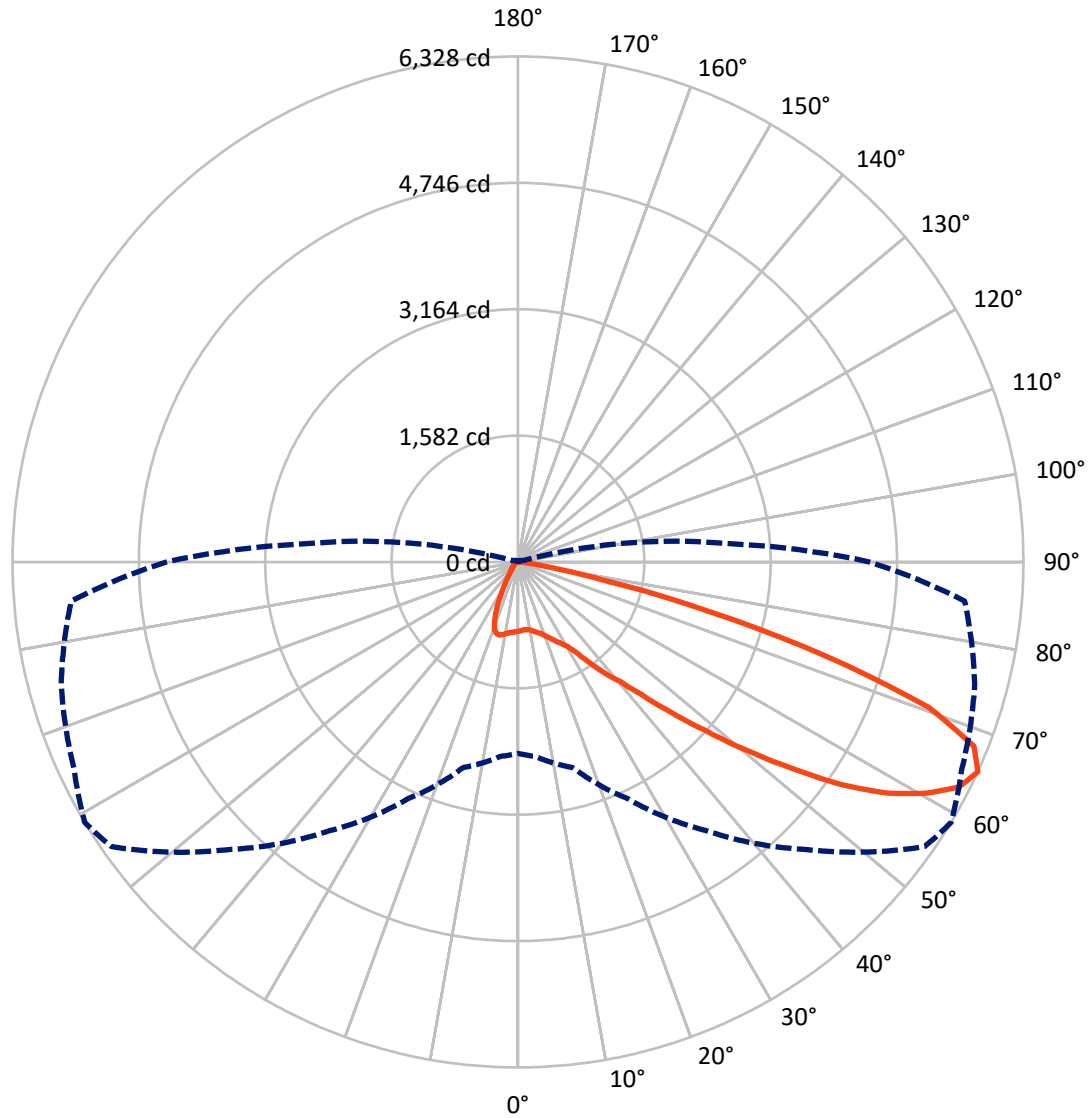
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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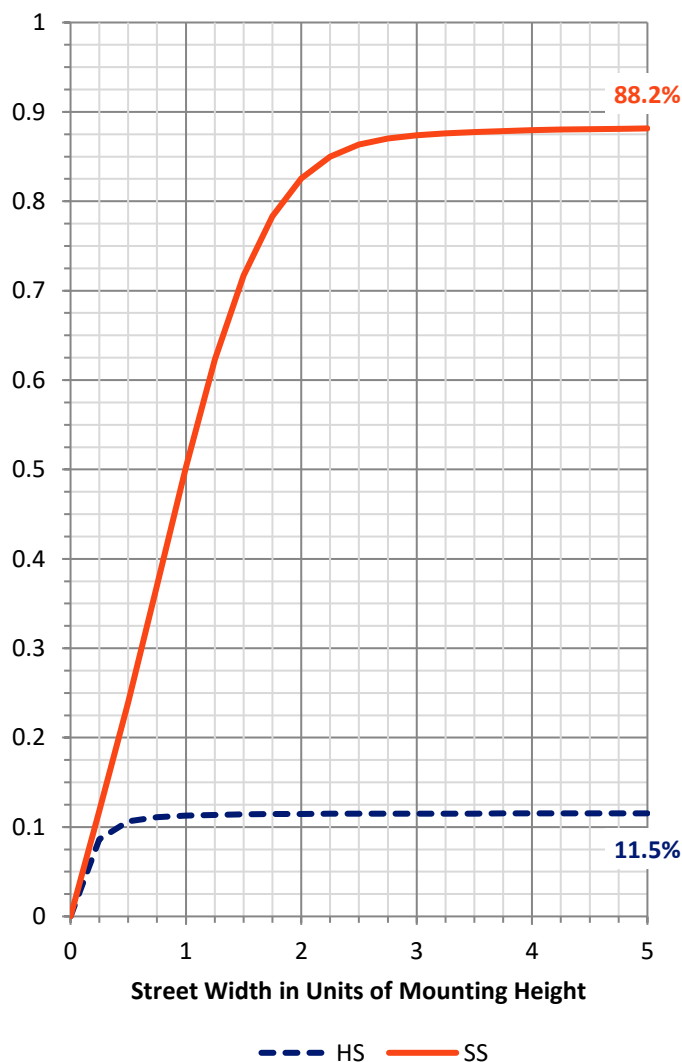
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.5	0.0	935.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7083.5	0.0	7083.5
	% Fixture	88.3	0.0	88.3
Total	Lumens	8019.0	0.0	8019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.0
10°-20°	232.6	2.9
20°-30°	395.1	4.9
30°-40°	699.9	8.7
40°-50°	1320.3	16.5
50°-60°	2233.8	27.9
60°-70°	2322.5	29.0
70°-80°	696.5	8.7
80°-90°	36.5	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°	8019.0	100.0
0°-180°	8019.0	100.0

Coefficient of Utilization



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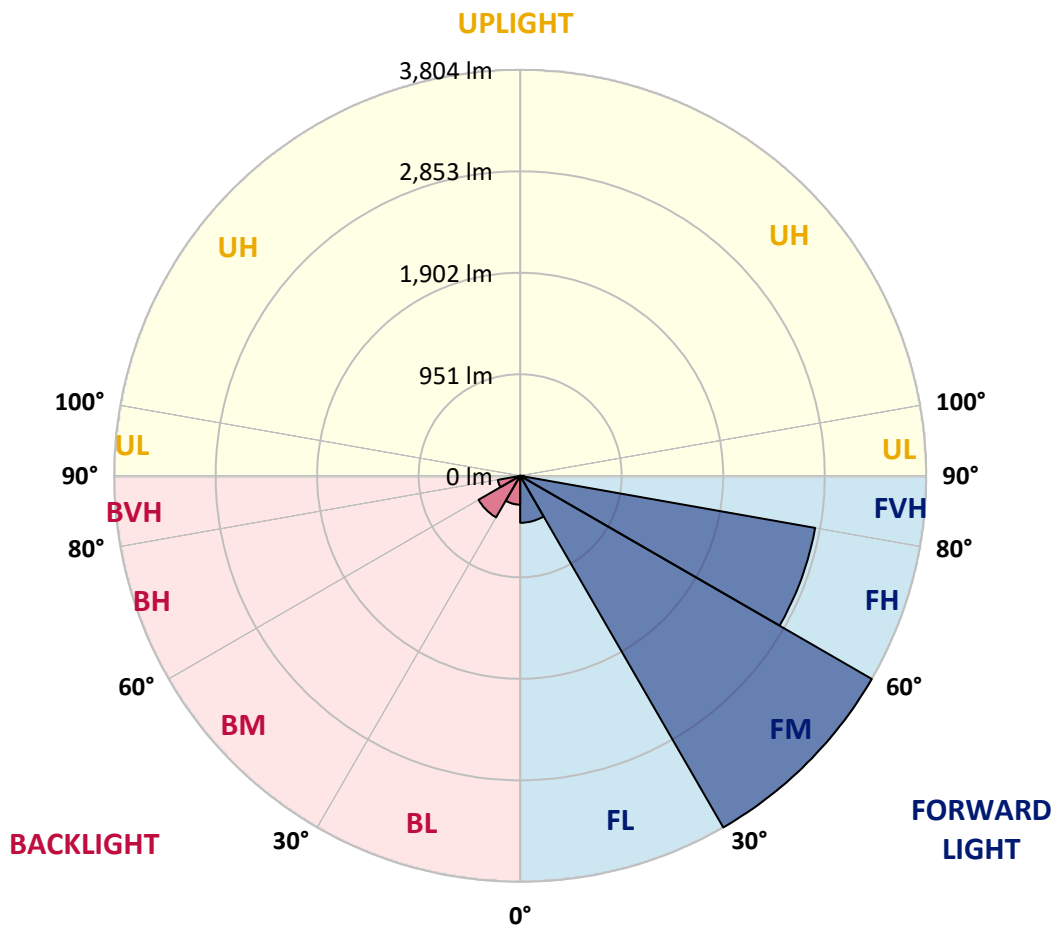
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.8	5.5			
FM (30°-60°)	3804.2	47.4			
FH (60°-80°)	2806.1	35.0			G2/5000
FVH (80°-90°)	33.4	0.4			G1/100
BL (0°-30°)	269.9	3.4	B1/500		
BM (30°-60°)	449.7	5.6	B1/1000		
BH (60°-80°)	212.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	843.2	840.3	840.3	846.1	849.0	851.9	857.8	857.8	857.8	863.6	866.5
5°	802.3	802.3	805.3	811.1	822.8	831.5	849.0	849.0	854.9	869.5	875.3
7.5°	776.1	776.1	779.0	790.7	805.3	825.7	849.0	849.0	854.9	863.6	884.0
10°	773.2	770.3	776.1	787.8	805.3	831.5	857.8	857.8	866.5	884.0	910.3
12.5°	781.9	779.0	784.8	796.5	814.0	840.3	875.3	875.3	889.9	910.3	945.3
15°	787.8	784.8	790.7	805.3	825.7	857.8	898.6	898.6	916.1	942.4	992.0
17.5°	805.3	802.3	805.3	816.9	837.4	872.4	924.9	924.9	942.4	986.2	1041.6
20°	884.0	881.1	863.6	857.8	860.7	892.8	959.9	959.9	989.1	1041.6	1111.6
22.5°	1047.4	1035.8	1003.7	951.1	916.1	927.8	1003.7	1003.7	1035.8	1105.8	1184.6
25°	1266.2	1257.5	1210.8	1120.4	1021.2	992.0	1053.3	1053.3	1097.0	1181.6	1269.2
27.5°	1514.2	1496.7	1453.0	1327.5	1193.3	1097.0	1114.5	1114.5	1152.5	1245.8	1339.2
30°	1730.1	1724.3	1674.7	1569.7	1412.1	1269.2	1207.9	1207.9	1228.3	1312.9	1412.1
32.5°	1928.5	1911.0	1870.2	1771.0	1625.1	1479.2	1356.7	1356.7	1356.7	1426.7	1543.4
35°	2147.4	2135.7	2086.1	1986.9	1846.9	1674.7	1563.8	1563.8	1552.2	1610.5	1741.8
37.5°	2372.0	2342.8	2319.5	2217.4	2077.3	1928.5	1794.3	1794.3	1768.1	1797.3	1893.5
40°	2652.1	2652.1	2599.6	2506.2	2374.9	2217.4	2030.7	2030.7	1963.6	1954.8	2080.3
42.5°	2978.9	2970.1	2926.4	2838.8	2713.4	2567.5	2331.2	2331.2	2269.9	2264.1	2415.8
45°	3355.3	3349.4	3296.9	3224.0	3136.4	2976.0	2742.6	2742.6	2681.3	2646.3	2821.3
47.5°	3699.5	3679.1	3661.6	3670.4	3620.8	3439.9	3221.1	3221.1	3148.1	3145.2	3282.3
50°	3935.9	3924.2	3985.5	4043.8	4137.2	4023.4	3763.7	3763.7	3699.5	3649.9	3830.8
52.5°	4090.5	4084.7	4207.2	4373.5	4566.1	4557.3	4326.8	4326.8	4288.9	4248.1	4297.7
55°	4151.8	4151.8	4297.7	4604.0	4942.4	5088.3	4980.4	4980.4	4927.9	4784.9	4682.8
57.5°	4078.8	4070.1	4259.7	4659.4	5175.9	5476.4	5523.1	5523.1	5461.8	5237.1	5123.3
60°	3769.6	3775.4	4000.1	4504.8	5158.3	5633.9	5934.4	5934.4	5879.0	5654.3	5485.1
62.5°	3191.9	3241.5	3477.8	4026.3	4784.9	5508.5	6170.8	6170.8	6199.9	5957.8	5747.7
65°	2398.3	2442.0	2666.7	3273.6	4105.1	5088.3	6214.5	6214.5	6328.3	6132.8	5919.8
67.5°	1458.8	1473.4	1747.7	2205.7	3022.7	4239.3	5908.2	5908.2	6156.2	6016.1	5666.0
70°	679.8	717.7	851.9	1205.0	1914.0	3121.9	5105.8	5105.8	5455.9	5298.4	4863.7
72.5°	265.5	277.2	361.8	557.3	1015.3	1963.6	3810.4	3810.4	4043.8	3935.9	3454.5
75°	131.3	140.0	175.1	265.5	463.9	811.1	2328.3	2328.3	2480.0	2302.0	1736.0
77.5°	96.3	96.3	116.7	163.4	253.8	300.5	980.3	980.3	1099.9	1038.7	671.1
80°	64.2	70.0	81.7	110.9	160.5	145.9	370.5	370.5	440.6	367.6	207.2
82.5°	37.9	40.8	61.3	78.8	108.0	84.6	125.5	125.5	140.0	151.7	102.1
85°	20.4	20.4	40.8	58.4	58.4	37.9	43.8	43.8	49.6	58.4	61.3
87.5°	5.8	5.8	26.3	35.0	23.3	20.4	23.3	23.3	23.3	26.3	32.1
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°	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5	866.5
2.5°	869.5	869.5	872.4	872.4	875.3	875.3	875.3	875.3	878.2	881.1	881.1
5°	878.2	881.1	881.1	881.1	881.1	875.3	872.4	869.5	869.5	872.4	872.4
7.5°	901.5	904.5	901.5	895.7	887.0	875.3	863.6	863.6	860.7	863.6	860.7
10°	936.6	936.6	933.6	919.0	904.5	881.1	857.8	840.3	828.6	825.7	819.9
12.5°	980.3	980.3	971.6	945.3	919.0	875.3	814.0	755.7	709.0	688.6	682.7
15°	1024.1	1024.1	1012.4	974.5	922.0	816.9	688.6	566.0	496.0	466.8	449.3
17.5°	1076.6	1070.8	1050.3	997.8	889.9	700.2	493.1	367.6	312.2	285.9	285.9
20°	1132.0	1126.2	1088.3	1000.7	808.2	501.8	320.9	253.8	239.2	233.4	233.4
22.5°	1193.3	1178.7	1120.4	977.4	636.0	341.4	242.2	224.7	218.8	215.9	215.9
25°	1242.9	1219.6	1143.7	913.2	455.1	239.2	213.0	207.2	195.5	192.6	186.7
27.5°	1280.8	1245.8	1152.5	776.1	300.5	198.4	189.6	178.0	166.3	154.6	154.6
30°	1330.4	1286.7	1158.3	603.9	204.2	172.1	163.4	148.8	134.2	122.5	122.5
32.5°	1429.6	1365.4	1161.2	423.1	169.2	151.7	134.2	116.7	102.1	96.3	93.4
35°	1537.6	1450.1	1129.1	274.3	148.8	128.4	108.0	93.4	78.8	75.9	75.9
37.5°	1657.2	1575.5	1059.1	186.7	131.3	108.0	87.5	72.9	64.2	61.3	61.3
40°	1858.5	1762.2	942.4	148.8	113.8	90.4	72.9	61.3	55.4	52.5	52.5
42.5°	2147.4	1981.1	796.5	128.4	99.2	75.9	58.4	49.6	46.7	43.8	43.8
45°	2480.0	2226.1	627.3	116.7	87.5	64.2	49.6	43.8	40.8	37.9	37.9
47.5°	2862.2	2480.0	496.0	102.1	75.9	55.4	43.8	37.9	35.0	32.1	32.1
50°	3224.0	2678.4	373.5	90.4	67.1	46.7	37.9	35.0	32.1	29.2	29.2
52.5°	3521.6	2812.6	283.0	78.8	58.4	40.8	35.0	32.1	26.3	26.3	26.3
55°	3880.4	2917.6	215.9	70.0	52.5	37.9	32.1	26.3	23.3	20.4	20.4
57.5°	4192.6	2955.5	157.6	61.3	46.7	35.0	29.2	23.3	17.5	14.6	14.6
60°	4402.7	2923.5	113.8	52.5	40.8	29.2	23.3	17.5	11.7	8.8	8.8
62.5°	4551.5	2853.4	87.5	46.7	35.0	26.3	20.4	14.6	8.8	5.8	5.8
65°	4402.7	2637.5	70.0	40.8	29.2	23.3	14.6	11.7	5.8	2.9	2.9
67.5°	3807.5	2211.6	55.4	35.0	26.3	20.4	14.6	8.8	2.9	0.0	0.0
70°	2736.7	1578.4	46.7	32.1	23.3	17.5	11.7	5.8	2.9	0.0	0.0
72.5°	1525.9	814.0	43.8	29.2	23.3	17.5	11.7	5.8	2.9	0.0	0.0
75°	618.5	280.1	40.8	29.2	23.3	14.6	11.7	5.8	2.9	0.0	0.0
77.5°	180.9	96.3	35.0	26.3	23.3	17.5	11.7	5.8	2.9	0.0	0.0
80°	64.2	43.8	26.3	23.3	17.5	14.6	11.7	8.8	2.9	0.0	0.0
82.5°	29.2	17.5	11.7	8.8	8.8	8.8	8.8	5.8	2.9	0.0	0.0
85°	11.7	8.8	5.8	2.9	2.9	2.9	2.9	2.9	2.9	0.0	0.0
87.5°	8.8	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)