

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: P572752

Luminaire Tested: **ARCH-S-PA2-110-740-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-740-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11568 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

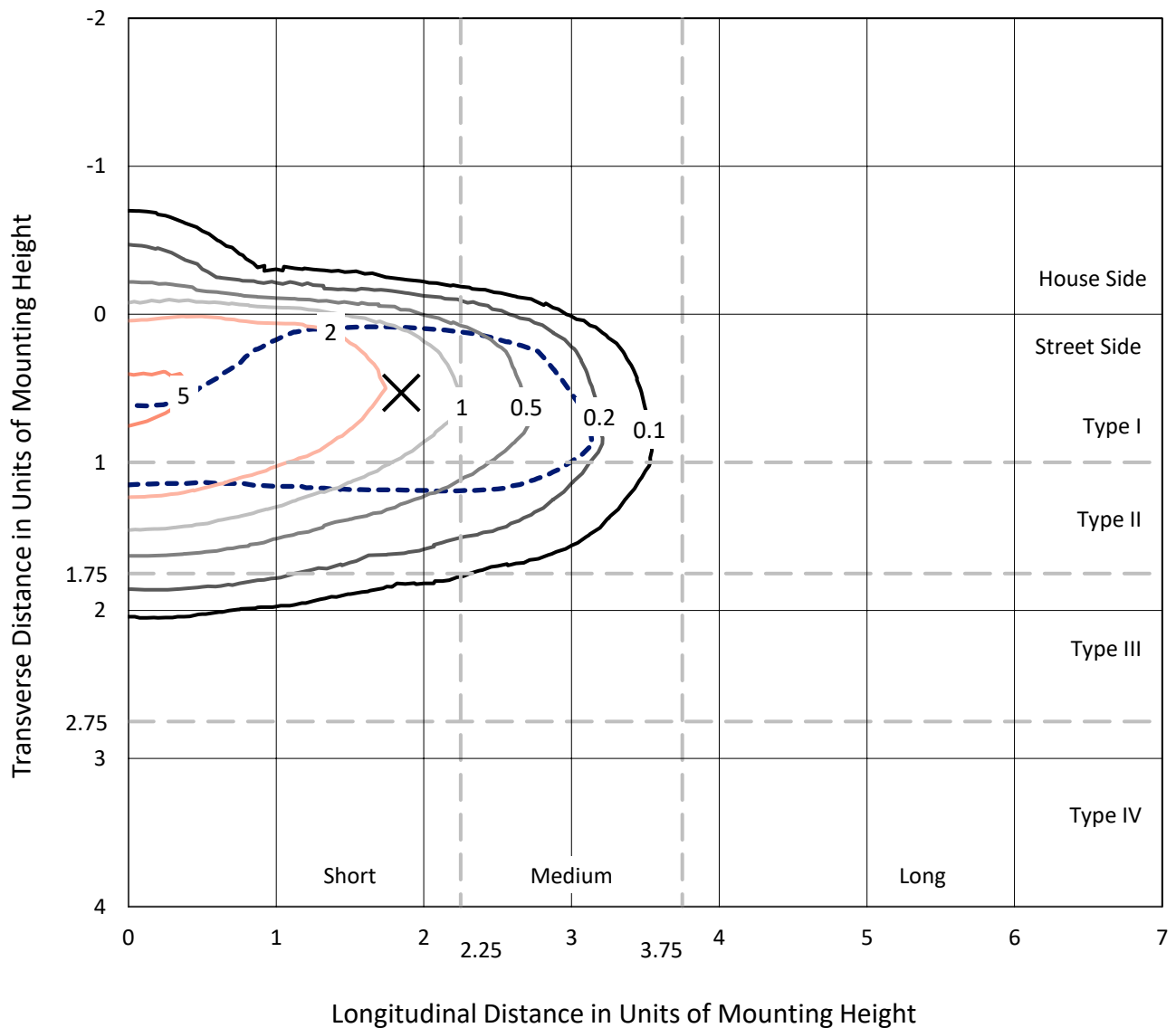
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

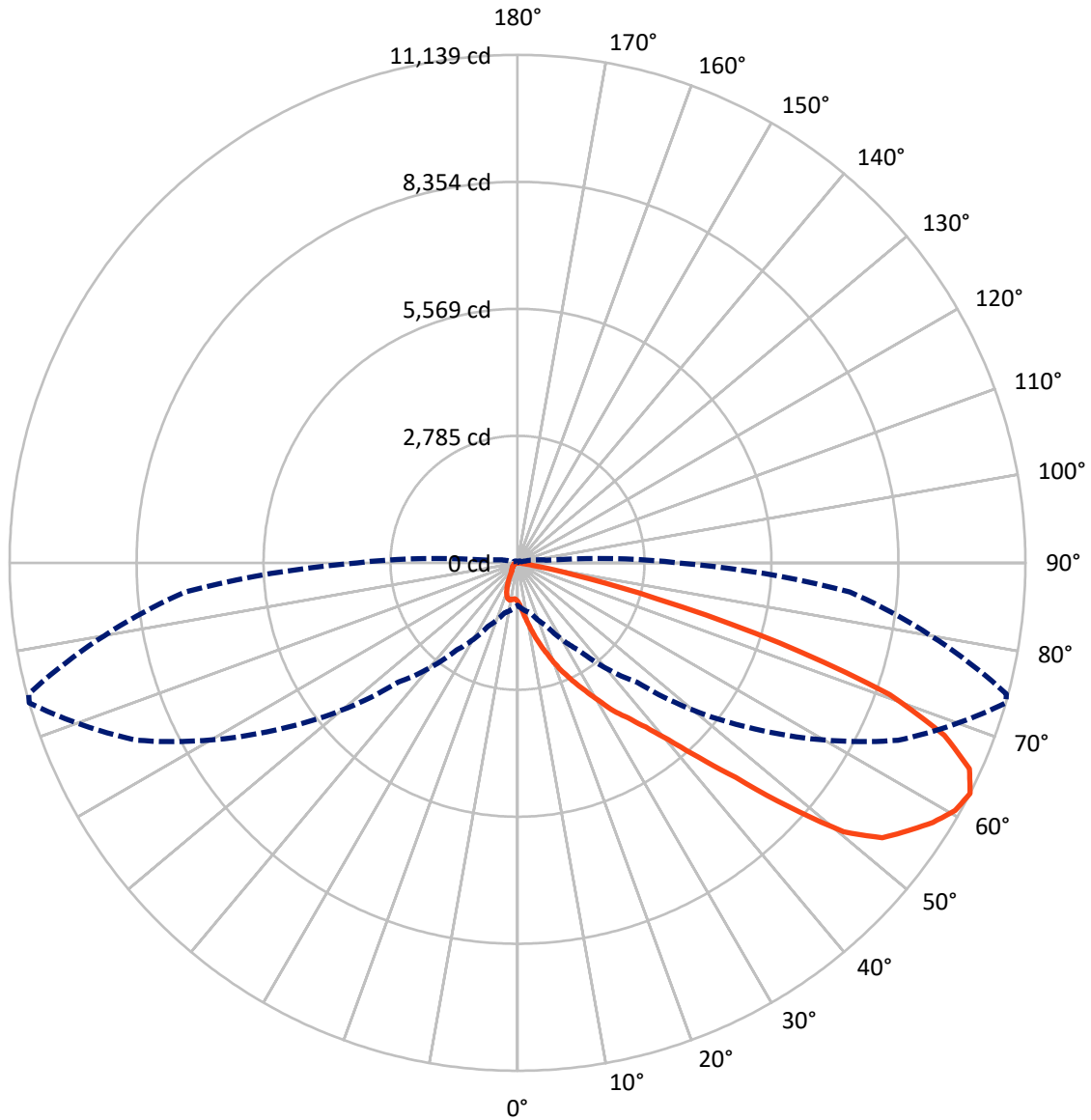
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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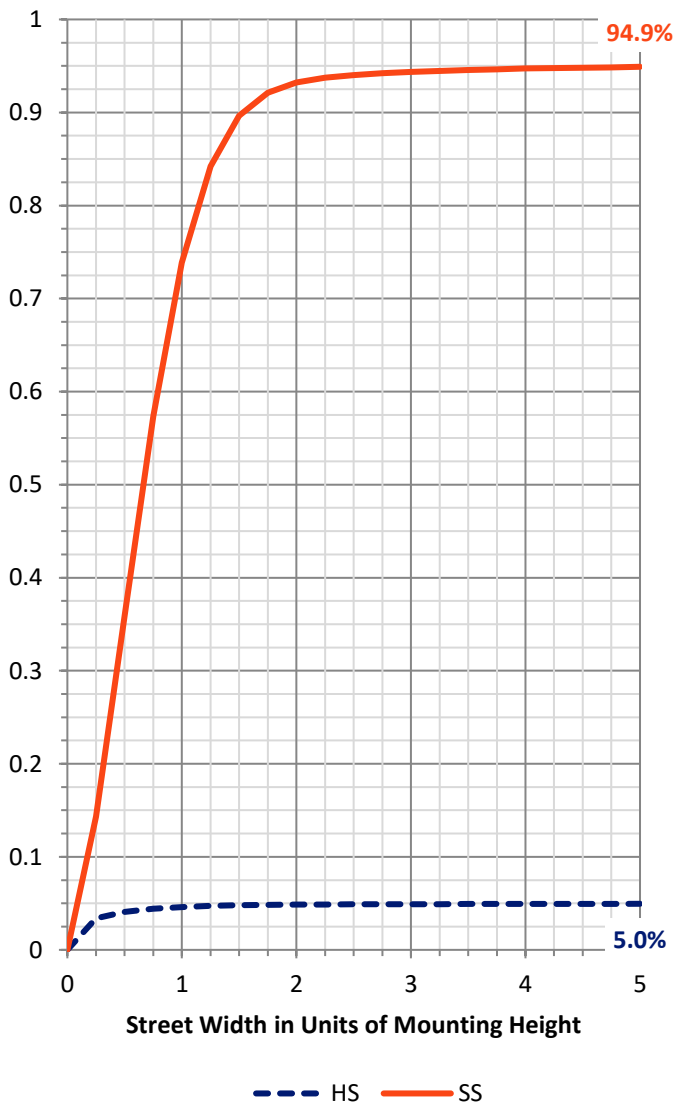
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	577.0	0.0	577.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10991.1	0.0	10991.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	11568.0	0.0	11568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	0.9
10°-20°	444.8	3.8
20°-30°	954.6	8.3
30°-40°	1674.3	14.5
40°-50°	2595.6	22.4
50°-60°	2992.3	25.9
60°-70°	2102.2	18.2
70°-80°	654.9	5.7
80°-90°	43.3	0.4
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°	11568.0	100.0
0°-180°	11568.0	100.0

Coefficient of Utilization

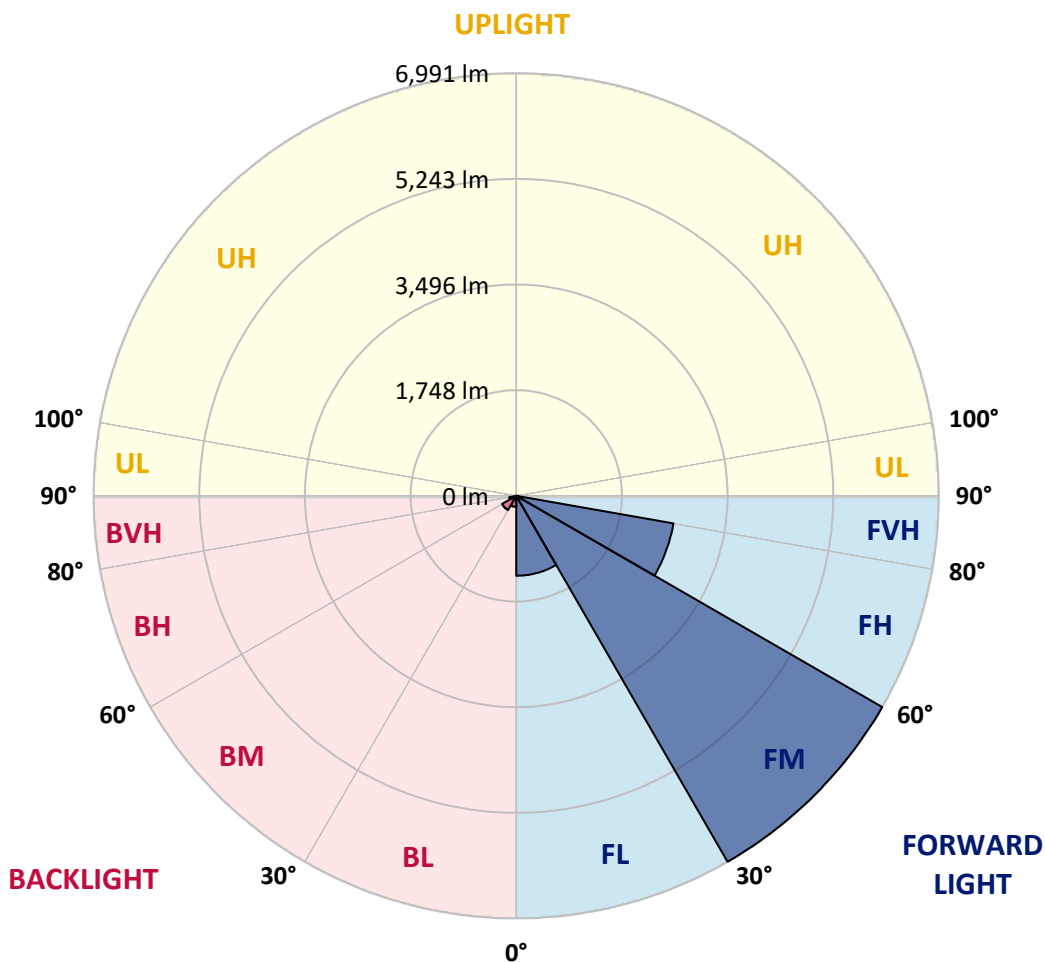


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.3	11.4			
FM (30°-60°)	6991.1	60.4			
FH (60°-80°)	2640.3	22.8			G2/5000
FVH (80°-90°)	37.3	0.3			G1/100
BL (0°-30°)	183.1	1.6	B1/500		
BM (30°-60°)	271.1	2.3	B1/1000		
BH (60°-80°)	116.8	1.0	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	1176.6	1156.2	1131.8	1111.4	1070.7	1042.2	1005.6	964.9	920.1	916.0	879.4
5°	1648.8	1587.8	1587.8	1534.8	1473.8	1363.9	1262.1	1135.9	1042.2	1034.1	936.4
7.5°	2133.3	2084.5	2056.0	1974.5	1876.8	1754.7	1591.8	1380.1	1209.2	1180.7	1021.9
10°	2585.2	2548.6	2495.7	2430.5	2345.0	2145.5	1942.0	1665.1	1392.4	1372.0	1123.7
12.5°	2935.3	2890.6	2866.1	2837.6	2727.7	2568.9	2304.3	1954.2	1628.5	1583.7	1225.4
15°	3200.0	3179.6	3155.2	3155.2	3098.2	2943.5	2670.7	2263.6	1856.5	1803.5	1355.7
17.5°	3411.7	3387.3	3383.2	3407.6	3391.3	3281.4	3024.9	2560.8	2092.6	2051.9	1490.1
20°	3647.8	3615.2	3615.2	3635.6	3631.5	3570.5	3346.5	2902.8	2369.4	2296.2	1644.8
22.5°	3981.6	3961.3	3945.0	3912.4	3888.0	3831.0	3635.6	3236.6	2634.1	2564.9	1803.5
25°	4429.5	4405.1	4331.8	4274.8	4168.9	4083.4	3916.5	3533.8	2902.8	2825.4	1958.3
27.5°	4865.1	4816.2	4747.0	4673.8	4555.7	4409.1	4201.5	3814.7	3183.7	3102.3	2117.0
30°	5325.2	5288.5	5203.0	5084.9	4938.4	4775.5	4527.2	4152.6	3505.3	3415.8	2288.0
32.5°	5691.6	5634.6	5557.2	5443.2	5292.6	5178.6	4909.9	4523.1	3875.8	3757.7	2467.2
35°	5984.7	5939.9	5838.1	5728.2	5614.2	5581.6	5288.5	4824.4	4173.0	4063.1	2658.5
37.5°	6172.0	6127.2	6041.7	5931.8	5887.0	5944.0	5752.6	5235.6	4572.0	4433.6	2878.4
40°	6318.5	6265.6	6196.4	6147.5	6131.3	6290.0	6269.7	5768.9	5097.2	5015.7	3179.6
42.5°	6424.4	6371.5	6326.7	6322.6	6428.5	6737.9	6965.9	6513.9	5830.0	5663.1	3566.4
45°	6290.0	6245.2	6269.7	6412.2	6668.7	7157.2	7808.6	7568.4	6713.4	6595.4	4185.2
47.5°	5915.5	5887.0	5996.9	6257.5	6733.8	7413.7	8622.8	8724.6	7975.5	7796.4	4987.2
50°	5329.2	5325.2	5500.2	5854.4	6530.2	7511.4	9034.0	9836.1	9270.2	9087.0	5638.6
52.5°	4535.3	4519.1	4775.5	5268.2	6049.8	7328.2	9111.4	10279.8	10019.3	9803.5	6049.8
55°	3635.6	3599.0	3904.3	4445.8	5341.4	6794.9	8903.8	10377.5	10377.5	10182.1	6355.2
57.5°	2556.7	2613.7	2866.1	3517.5	4466.1	5996.9	8390.8	10288.0	10739.9	10572.9	6766.4
60°	1612.2	1636.6	1913.5	2438.7	3387.3	4930.2	7474.8	9901.2	11028.9	10931.2	7096.1
62.5°	928.2	1005.6	1144.0	1543.0	2336.9	3704.8	6343.0	9205.0	11138.8	11098.1	7311.9
65°	565.9	574.0	639.2	871.2	1437.1	2528.2	5076.8	8236.1	10890.5	10927.1	7271.2
67.5°	423.4	423.4	443.8	549.6	818.3	1608.1	3745.5	7059.5	10096.6	10214.7	6888.5
70°	366.4	366.4	370.5	403.1	504.8	952.7	2475.3	5691.6	8655.4	8643.2	5691.6
72.5°	289.1	301.3	325.7	342.0	382.7	557.8	1449.4	3977.6	6013.2	6155.7	3664.1
75°	232.1	236.1	268.7	297.2	321.6	378.6	684.0	2210.7	3155.2	3155.2	1612.2
77.5°	179.1	187.3	207.6	236.1	268.7	268.7	285.0	855.0	1221.4	1180.7	476.3
80°	114.0	118.1	150.6	187.3	223.9	191.3	154.7	285.0	333.8	321.6	130.3
82.5°	69.2	73.3	97.7	150.6	150.6	105.9	97.7	118.1	105.9	97.7	52.9
85°	20.4	24.4	69.2	97.7	85.5	40.7	48.9	52.9	48.9	44.8	28.5
87.5°	4.1	4.1	20.4	24.4	20.4	20.4	16.3	20.4	20.4	20.4	12.2
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°	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8	846.8
2.5°	859.0	842.7	810.2	785.7	765.4	745.0	728.7	724.7	716.5	716.5	712.5
5°	895.7	859.0	798.0	757.2	724.7	696.2	671.8	647.3	639.2	631.0	635.1
7.5°	952.7	895.7	810.2	749.1	692.1	627.0	574.0	529.3	496.7	488.5	476.3
10°	1025.9	940.5	830.5	732.8	627.0	513.0	439.7	394.9	378.6	358.3	362.3
12.5°	1099.2	993.4	846.8	688.0	517.0	403.1	342.0	313.5	301.3	297.2	301.3
15°	1184.7	1050.4	838.7	606.6	415.3	325.7	289.1	276.8	268.7	268.7	264.6
17.5°	1270.2	1099.2	810.2	500.8	333.8	276.8	260.6	248.3	240.2	236.1	236.1
20°	1363.9	1144.0	745.0	399.0	276.8	252.4	236.1	219.8	211.7	211.7	211.7
22.5°	1461.6	1176.6	659.5	317.6	248.3	223.9	207.6	195.4	187.3	187.3	187.3
25°	1547.1	1192.9	557.8	264.6	228.0	203.6	187.3	175.1	171.0	166.9	166.9
27.5°	1628.5	1188.8	451.9	232.1	203.6	183.2	166.9	158.8	150.6	150.6	150.6
30°	1709.9	1164.4	358.3	211.7	187.3	162.8	150.6	142.5	138.4	134.4	134.4
32.5°	1779.1	1123.7	280.9	195.4	171.0	146.6	134.4	126.2	126.2	122.1	122.1
35°	1848.3	1062.6	236.1	183.2	154.7	134.4	122.1	118.1	114.0	114.0	114.0
37.5°	1921.6	985.2	207.6	166.9	138.4	122.1	114.0	109.9	105.9	101.8	101.8
40°	2011.2	907.9	195.4	154.7	126.2	109.9	101.8	97.7	93.6	93.6	93.6
42.5°	2153.7	842.7	183.2	138.4	114.0	101.8	93.6	85.5	85.5	81.4	81.4
45°	2422.4	818.3	171.0	126.2	105.9	89.6	85.5	77.4	73.3	73.3	73.3
47.5°	2772.5	822.4	158.8	114.0	97.7	81.4	77.4	73.3	65.1	65.1	65.1
50°	3061.6	802.0	146.6	105.9	85.5	77.4	69.2	65.1	61.1	61.1	61.1
52.5°	3175.5	765.4	134.4	97.7	81.4	69.2	65.1	61.1	57.0	57.0	57.0
55°	3289.5	749.1	122.1	85.5	73.3	69.2	61.1	57.0	52.9	48.9	48.9
57.5°	3497.2	757.2	109.9	81.4	69.2	65.1	57.0	48.9	40.7	36.6	36.6
60°	3607.1	728.7	101.8	73.3	65.1	61.1	48.9	36.6	28.5	24.4	24.4
62.5°	3513.5	647.3	93.6	69.2	61.1	52.9	36.6	28.5	20.4	12.2	12.2
65°	3252.9	533.3	85.5	65.1	52.9	40.7	32.6	20.4	12.2	8.1	8.1
67.5°	2923.1	419.3	77.4	61.1	48.9	36.6	28.5	16.3	8.1	4.1	4.1
70°	2361.3	301.3	73.3	57.0	44.8	32.6	24.4	16.3	8.1	4.1	4.1
72.5°	1522.6	195.4	65.1	52.9	40.7	32.6	20.4	12.2	8.1	4.1	4.1
75°	704.3	130.3	61.1	48.9	40.7	28.5	20.4	16.3	8.1	4.1	4.1
77.5°	207.6	93.6	57.0	44.8	36.6	28.5	20.4	16.3	8.1	4.1	4.1
80°	85.5	65.1	44.8	40.7	36.6	28.5	20.4	16.3	8.1	4.1	4.1
82.5°	40.7	28.5	20.4	16.3	20.4	20.4	16.3	16.3	8.1	4.1	4.1
85°	20.4	12.2	8.1	8.1	8.1	4.1	4.1	8.1	8.1	4.1	4.1
87.5°	12.2	8.1	8.1	8.1	4.1	4.1	4.1	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)