

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: P400490

Luminaire Tested: **ARCH-L-PA3-90-727-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-90-727-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8979 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

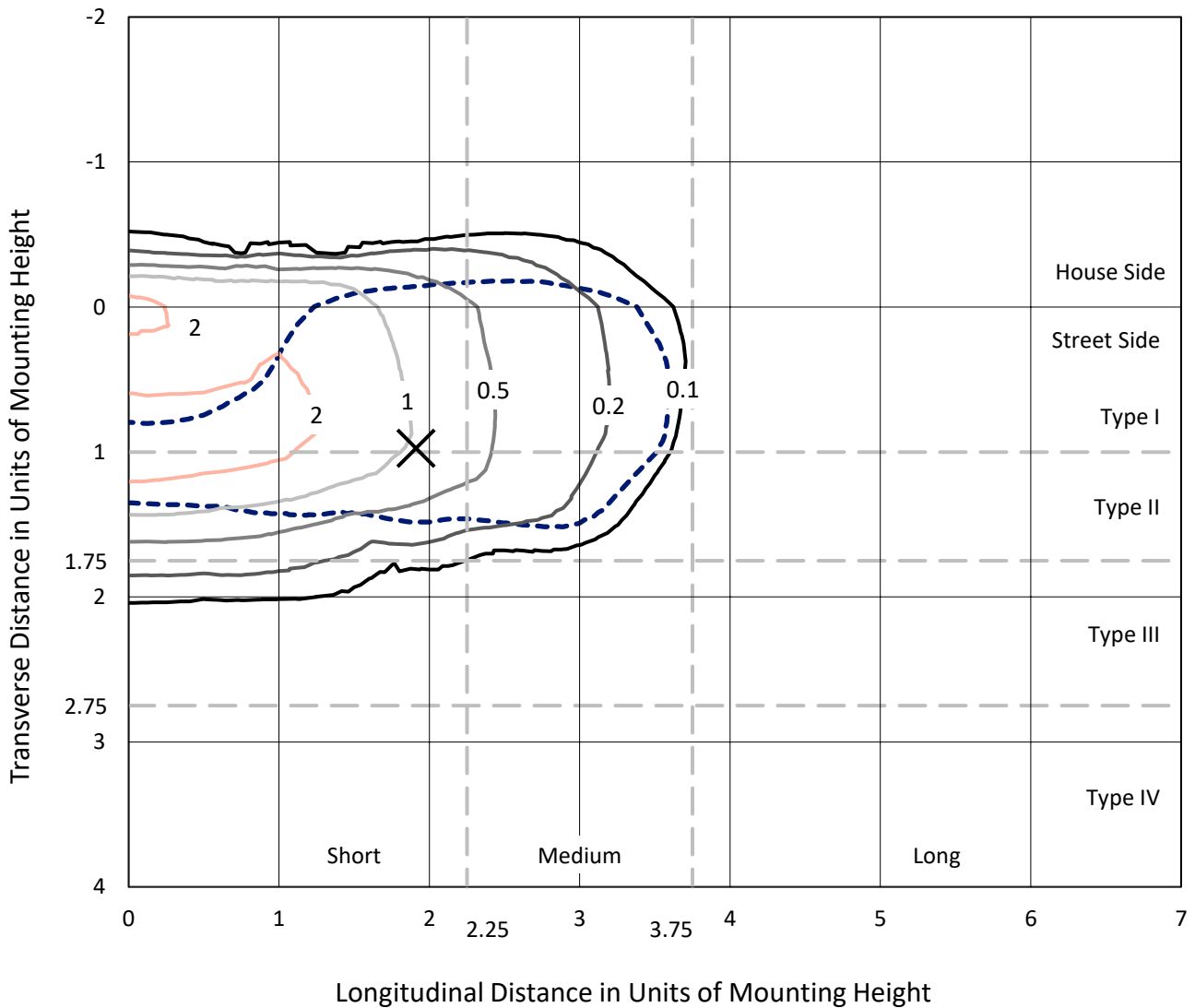
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

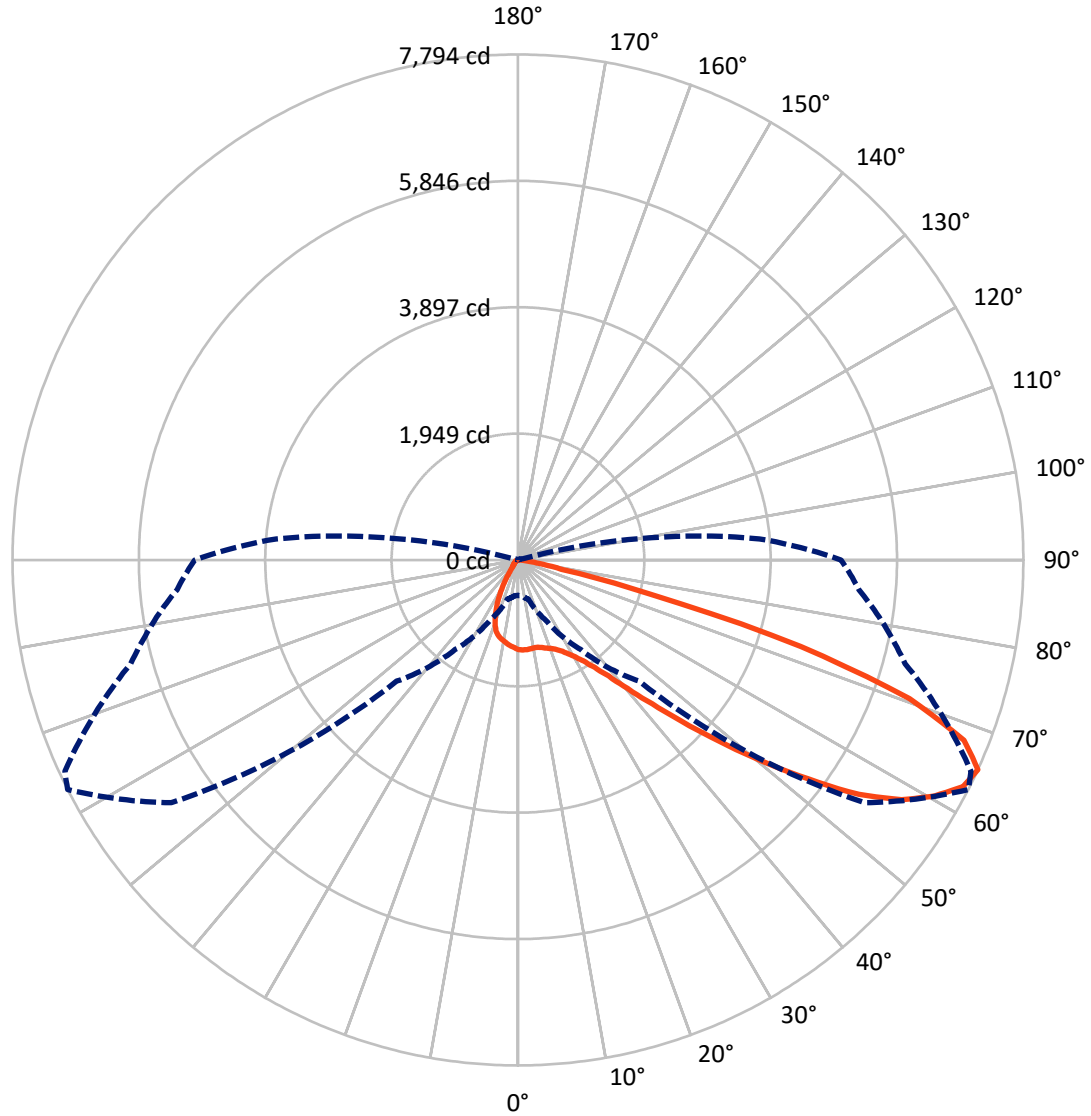
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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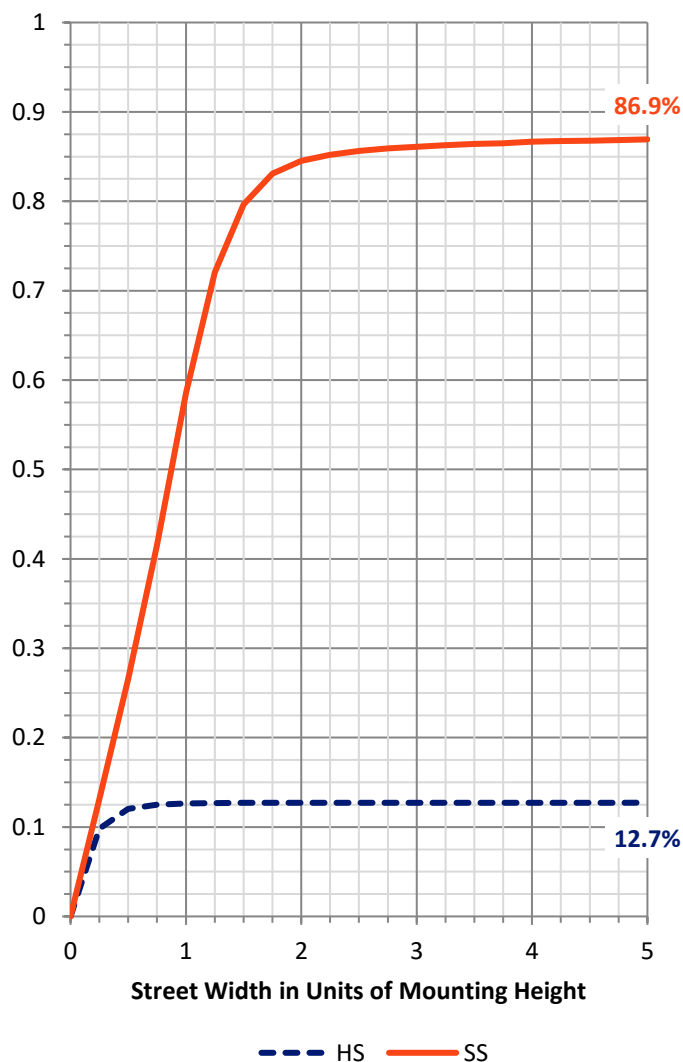
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.6	0.0	1155.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	7823.4	0.0	7823.4
	% Fixture	87.1	0.0	87.1
Total	Lumens	8979.0	0.0	8979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	1.4
10°-20°	311.4	3.5
20°-30°	461.5	5.1
30°-40°	856.9	9.5
40°-50°	1815.2	20.2
50°-60°	2510.0	28.0
60°-70°	2009.4	22.4
70°-80°	834.8	9.3
80°-90°	53.6	0.6
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°	8979.0	100.0
0°-180°	8979.0	100.0

Coefficient of Utilization

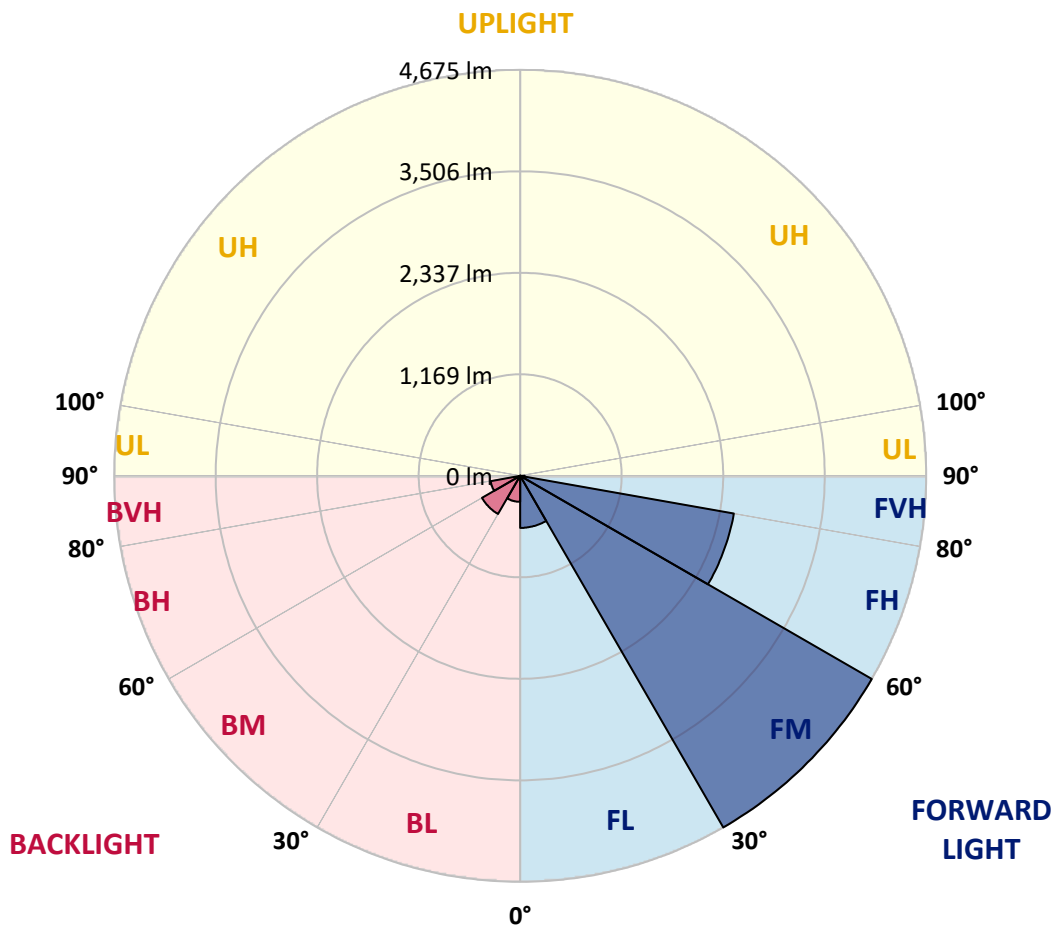


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.6	6.7			
FM (30°-60°)	4674.5	52.1			
FH (60°-80°)	2498.2	27.8			G2/5000
FVH (80°-90°)	51.2	0.6			G1/100
BL (0°-30°)	299.5	3.3	B1/500		
BM (30°-60°)	507.6	5.7	B1/1000		
BH (60°-80°)	346.0	3.9	B1/500		G1/500
BVH (80°-90°)	2.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1407.0	1403.6	1400.2	1398.5	1398.5	1396.8	1390.0	1388.3	1384.9	1381.5	1378.1
5°	1393.4	1388.3	1386.6	1388.3	1390.0	1393.4	1390.0	1390.0	1386.6	1383.2	1376.4
7.5°	1359.5	1356.1	1357.8	1362.9	1364.6	1376.4	1378.1	1383.2	1383.2	1379.8	1374.7
10°	1318.8	1317.1	1317.1	1325.6	1334.1	1351.0	1362.9	1376.4	1378.1	1378.1	1369.7
12.5°	1288.3	1286.6	1291.7	1301.9	1318.8	1340.8	1361.2	1381.5	1384.9	1386.6	1373.0
15°	1269.6	1269.6	1276.4	1296.8	1320.5	1351.0	1374.7	1401.9	1405.3	1403.6	1384.9
17.5°	1252.7	1254.4	1268.0	1301.9	1329.0	1369.7	1398.5	1429.0	1430.7	1429.0	1398.5
20°	1245.9	1249.3	1269.6	1313.7	1344.2	1390.0	1427.3	1457.8	1459.5	1452.7	1412.0
22.5°	1264.6	1266.3	1291.7	1339.1	1368.0	1418.8	1466.3	1495.1	1496.8	1486.6	1432.4
25°	1329.0	1329.0	1351.0	1391.7	1417.1	1468.0	1518.8	1552.7	1552.7	1540.9	1478.1
27.5°	1479.8	1466.3	1461.2	1473.1	1481.5	1535.8	1590.0	1632.4	1630.7	1613.8	1537.5
30°	1771.4	1737.5	1683.3	1622.2	1591.7	1629.0	1679.9	1734.1	1732.4	1705.3	1610.4
32.5°	2261.3	2212.1	2083.3	1922.3	1791.7	1749.4	1796.8	1856.2	1857.9	1825.6	1727.3
35°	2947.8	2869.8	2639.3	2415.5	2117.2	1956.2	1969.7	2034.1	2054.5	2037.5	1924.0
37.5°	3608.9	3537.7	3317.4	3007.1	2602.0	2273.2	2215.5	2271.5	2295.2	2295.2	2174.8
40°	4275.1	4192.0	3997.1	3685.2	3258.0	2768.1	2561.3	2607.1	2632.5	2637.6	2480.0
42.5°	4809.1	4754.8	4605.6	4363.2	3963.2	3636.0	3059.7	3034.3	3058.0	3039.4	2834.2
45°	5178.6	5136.2	5032.8	4941.3	4746.3	4581.9	3725.9	3554.7	3569.9	3505.5	3232.6
47.5°	5254.9	5207.4	5185.4	5312.5	5451.5	5492.2	4544.6	4173.4	4158.1	4015.7	3646.2
50°	4922.6	4927.7	5009.1	5371.8	5951.6	6317.7	5493.9	4871.8	4815.8	4498.9	4031.0
52.5°	4205.6	4287.0	4492.1	5080.3	6104.1	6917.8	6443.2	5612.5	5526.1	4968.4	4319.2
55°	3290.2	3395.3	3732.7	4409.0	5785.5	7185.6	7243.3	6382.1	6185.5	5321.0	4542.9
57.5°	2446.1	2478.3	2871.5	3488.6	5031.1	6922.9	7653.5	6975.4	6722.9	5602.4	4765.0
60°	1523.9	1544.3	1959.6	2656.3	3810.6	5951.6	7653.5	7384.0	7143.2	5855.0	4968.4
62.5°	947.6	954.4	1110.3	1820.6	2590.1	4414.1	7336.5	7700.9	7507.7	6036.3	5143.0
65°	545.8	552.6	625.5	1028.9	1685.0	2642.7	6526.2	7794.2	7707.7	6180.4	5278.6
67.5°	398.4	401.7	430.6	578.0	1101.8	1357.8	4902.3	7419.6	7528.0	6251.6	5275.2
70°	345.8	350.9	388.2	450.9	795.0	834.0	2495.2	6407.6	6711.0	6149.9	5117.6
72.5°	266.1	272.9	328.9	423.8	583.1	600.1	903.5	4559.9	5019.3	5514.2	4685.3
75°	183.1	189.9	245.8	349.2	481.4	449.2	496.7	2098.6	2647.8	3698.8	3566.5
77.5°	117.0	118.7	154.3	254.3	415.3	318.7	340.7	684.8	961.1	1673.1	1683.3
80°	78.0	79.7	94.9	164.4	284.8	295.0	210.2	317.0	347.5	488.2	339.0
82.5°	47.5	47.5	64.4	103.4	172.9	244.1	137.3	166.1	178.0	188.2	88.1
85°	18.6	18.6	39.0	67.8	108.5	113.6	86.5	96.6	101.7	110.2	40.7
87.5°	5.1	5.1	22.0	37.3	47.5	52.5	52.5	47.5	50.9	62.7	20.3
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°	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2	1383.2
2.5°	1376.4	1371.4	1364.6	1357.8	1351.0	1345.9	1340.8	1340.8	1337.5	1332.4	1329.0
5°	1373.0	1364.6	1349.3	1337.5	1318.8	1305.2	1295.1	1286.6	1281.5	1269.6	1268.0
7.5°	1368.0	1357.8	1335.8	1312.0	1281.5	1257.8	1234.0	1217.1	1200.1	1186.6	1183.2
10°	1359.5	1347.6	1315.4	1281.5	1239.1	1195.1	1139.1	1074.7	1015.4	981.5	971.3
12.5°	1359.5	1344.2	1301.9	1256.1	1195.1	1086.6	944.2	801.8	691.6	642.5	628.9
15°	1368.0	1347.6	1291.7	1229.0	1115.4	895.0	664.5	476.3	356.0	318.7	310.2
17.5°	1376.4	1347.6	1276.4	1191.7	969.6	649.2	378.0	250.9	211.9	203.4	203.4
20°	1379.8	1344.2	1256.1	1122.2	774.7	403.4	225.5	188.2	172.9	167.8	167.8
22.5°	1393.4	1345.9	1240.8	1022.2	562.8	237.3	178.0	157.6	142.4	137.3	137.3
25°	1427.3	1366.3	1244.2	895.0	361.1	179.7	150.9	130.5	115.3	108.5	108.5
27.5°	1481.5	1412.0	1262.9	747.5	227.1	154.3	127.1	105.1	93.2	86.5	86.5
30°	1542.6	1462.9	1271.3	578.0	169.5	130.5	103.4	83.1	74.6	69.5	67.8
32.5°	1649.4	1551.0	1264.6	396.7	139.0	110.2	83.1	66.1	59.3	57.6	57.6
35°	1820.6	1705.3	1251.0	249.2	115.3	88.1	66.1	54.2	49.2	47.5	45.8
37.5°	2052.8	1930.7	1210.3	164.4	94.9	69.5	54.2	45.8	40.7	39.0	39.0
40°	2335.9	2188.4	1132.3	125.4	81.4	55.9	45.8	39.0	35.6	33.9	33.9
42.5°	2659.6	2474.9	1008.6	108.5	67.8	47.5	39.0	32.2	30.5	28.8	28.8
45°	3013.9	2774.9	837.4	96.6	57.6	39.0	32.2	28.8	25.4	25.4	23.7
47.5°	3390.2	3076.6	644.1	84.8	49.2	33.9	28.8	23.7	22.0	20.3	20.3
50°	3753.0	3346.2	452.6	72.9	40.7	28.8	23.7	20.3	18.6	17.0	17.0
52.5°	4009.0	3508.9	320.4	62.7	33.9	25.4	18.6	15.3	13.6	13.6	13.6
55°	4214.1	3610.6	223.8	52.5	28.8	22.0	15.3	11.9	11.9	10.2	10.2
57.5°	4407.3	3676.7	164.4	44.1	23.7	17.0	11.9	8.5	8.5	6.8	6.8
60°	4607.3	3712.3	125.4	35.6	20.3	13.6	8.5	6.8	5.1	5.1	5.1
62.5°	4809.1	3734.4	96.6	28.8	17.0	10.2	6.8	5.1	3.4	1.7	1.7
65°	4985.4	3741.1	74.6	22.0	13.6	6.8	5.1	1.7	0.0	0.0	0.0
67.5°	5037.9	3663.2	57.6	17.0	10.2	5.1	3.4	0.0	0.0	0.0	0.0
70°	4895.5	3456.4	44.1	13.6	8.5	3.4	1.7	0.0	0.0	0.0	0.0
72.5°	4344.6	2898.7	33.9	8.5	6.8	3.4	1.7	0.0	0.0	0.0	0.0
75°	3108.9	1546.0	23.7	6.8	5.1	1.7	0.0	0.0	0.0	0.0	0.0
77.5°	1430.7	598.4	17.0	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	279.7	149.2	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	64.4	25.4	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.0	8.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.4	1.7	0.0	0.0	0.0	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)