

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: P482603

Luminaire Tested: **IFLD-S-SA3B-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

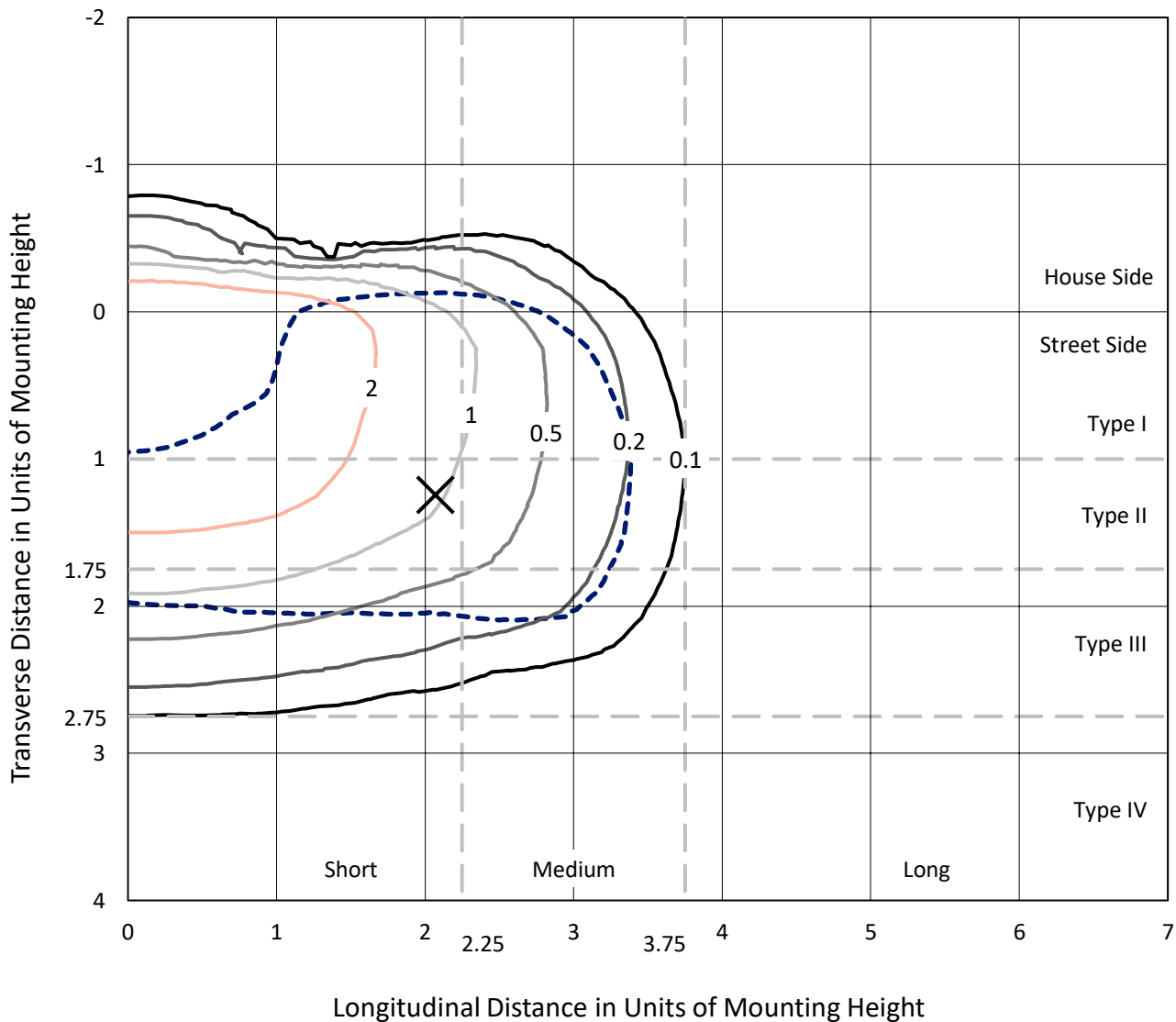
Lumens per Lamp: N/A
Luminaire Lumens: 10032.8 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
Input Voltage (V): 120
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: P482603
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

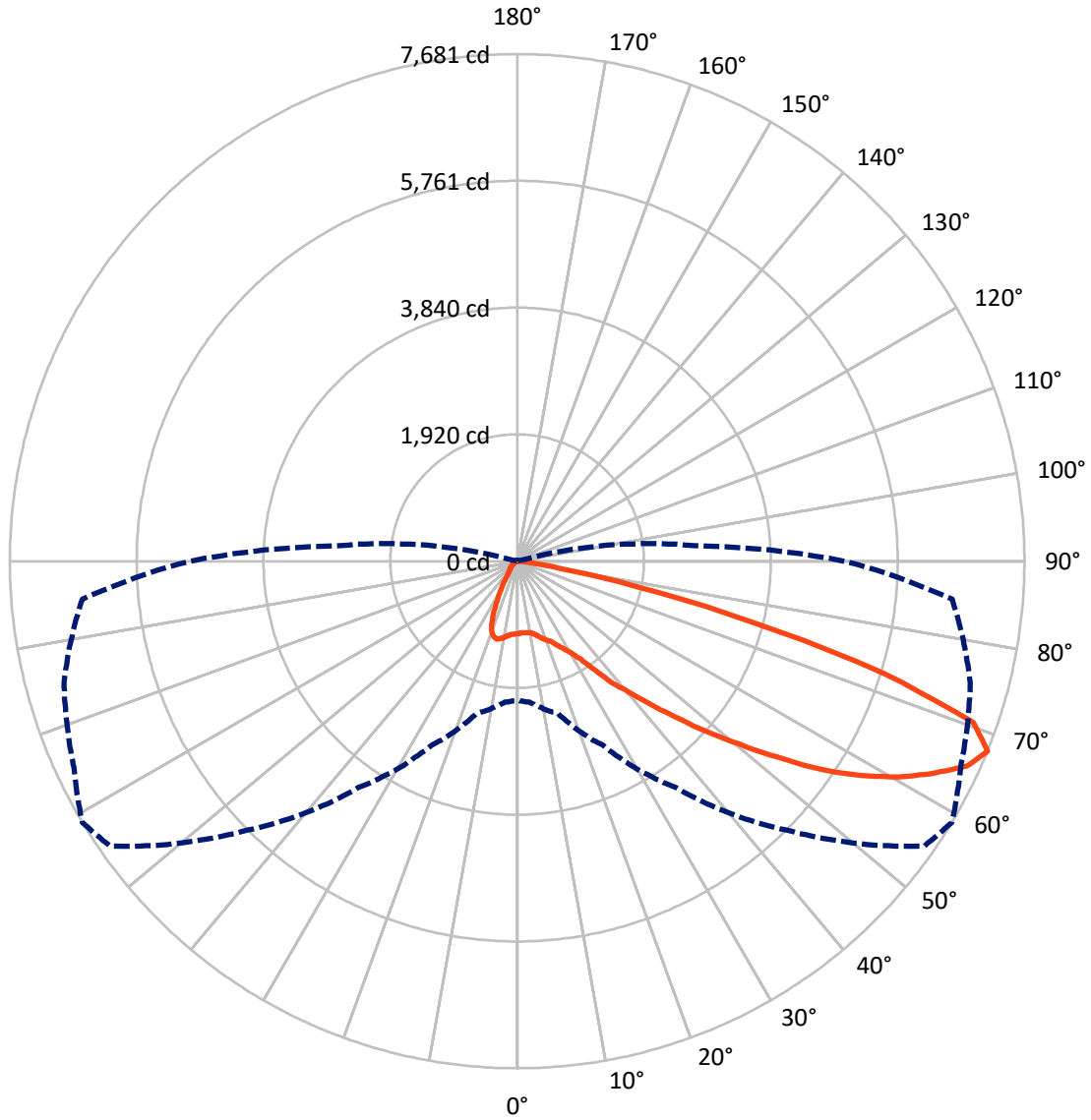
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

REPORT NUMBER: P482603
CATALOG NUMBER: IFLD-S-SA3B-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P482603
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T3-HSS

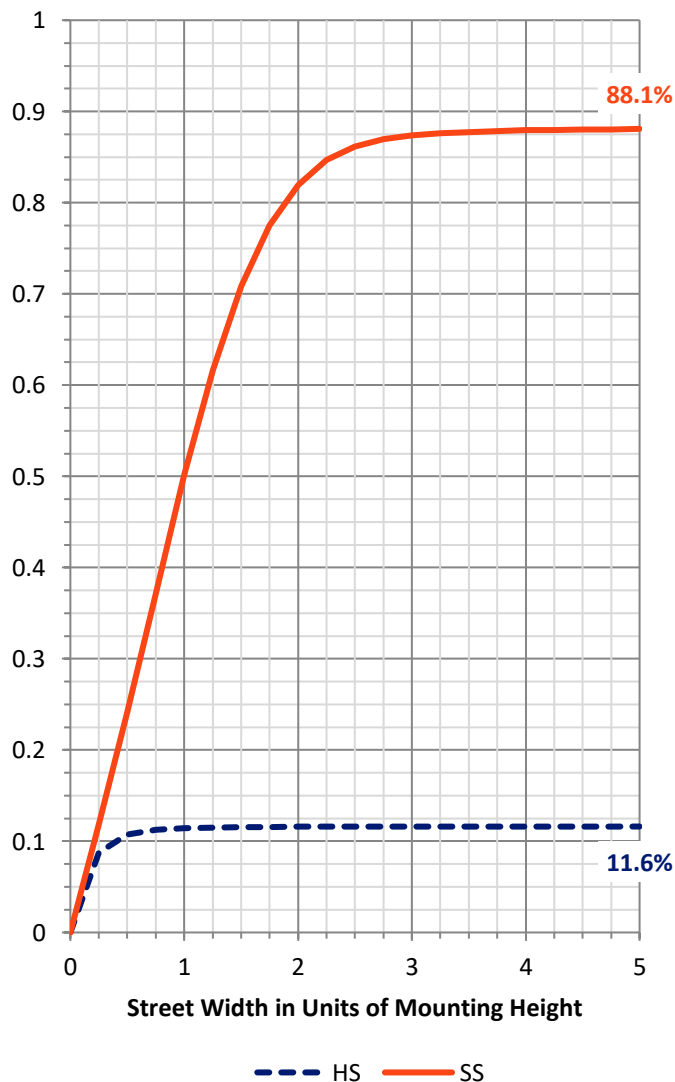
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.5	0.0	1178.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	8854.2	0.0	8854.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	10032.8	0.0	10032.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.0
10°-20°	301.9	3.0
20°-30°	527.7	5.3
30°-40°	929.1	9.3
40°-50°	1642.4	16.4
50°-60°	2600.4	25.9
60°-70°	2884.6	28.8
70°-80°	1000.9	10.0
80°-90°	41.2	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°	10032.8	100.0
0°-180°	10032.8	100.0

Coefficient of Utilization

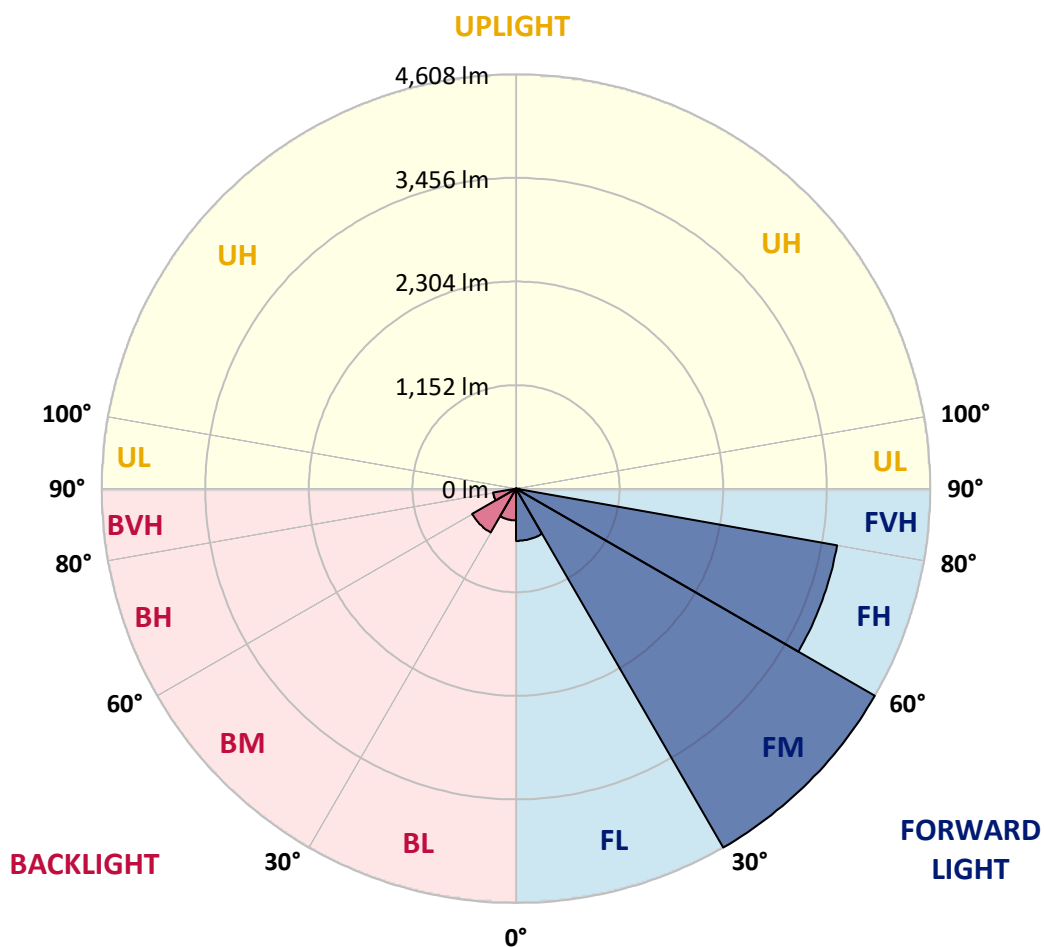


REPORT NUMBER: P482603
 CATALOG NUMBER: IFLD-S-SA3B-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.0	5.8			
FM (30°-60°)	4608.4	45.9			
FH (60°-80°)	3626.3	36.1			G2/5000
FVH (80°-90°)	38.5	0.4			G1/100
BL (0°-30°)	353.2	3.5	B1/500		
BM (30°-60°)	563.5	5.6	B1/1000		
BH (60°-80°)	259.2	2.6	B1/500		G1/500
BVH (80°-90°)	2.7	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: P482603

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4
2.5°	1068.5	1053.3	1067.2	1068.5	1069.9	1082.4	1096.3	1086.6	1085.2	1096.3	1106.0
5°	1025.6	1018.6	1035.3	1043.6	1057.5	1068.5	1090.7	1092.1	1093.5	1106.0	1122.6
7.5°	1007.6	990.9	1010.3	1020.0	1029.7	1056.1	1082.4	1096.3	1115.7	1130.9	1147.5
10°	971.5	984.0	989.5	1006.2	1033.9	1064.4	1096.3	1103.2	1146.1	1158.6	1198.8
12.5°	984.0	992.3	1003.4	1007.6	1038.0	1083.8	1126.7	1129.5	1173.9	1227.9	1248.7
15°	1015.9	1010.3	1014.5	1020.0	1056.1	1093.5	1162.8	1175.3	1216.8	1277.8	1329.1
17.5°	1083.8	1074.1	1067.2	1065.8	1074.1	1108.7	1190.5	1227.9	1266.7	1349.9	1376.2
20°	1254.3	1245.9	1218.2	1146.1	1121.2	1135.1	1223.8	1276.4	1330.5	1423.3	1466.3
22.5°	1513.4	1521.7	1456.6	1355.4	1251.5	1197.4	1276.4	1322.2	1408.1	1525.9	1564.7
25°	1819.7	1803.1	1724.1	1606.3	1442.7	1315.2	1361.0	1412.2	1517.6	1614.6	1629.8
27.5°	2059.5	2040.1	1979.1	1836.3	1695.0	1488.5	1471.8	1503.7	1628.4	1715.8	1699.1
30°	2296.5	2303.4	2261.8	2092.7	1918.1	1700.5	1595.2	1609.0	1704.7	1816.9	1779.5
32.5°	2598.6	2582.0	2558.4	2410.1	2203.6	1970.8	1790.6	1768.4	1810.0	1958.3	1913.9
35°	2879.9	2870.2	2838.3	2688.7	2508.5	2254.9	2078.9	2029.0	2019.3	2184.2	2106.6
37.5°	3125.2	3108.6	3060.1	2964.5	2789.8	2576.4	2383.8	2339.4	2338.0	2451.7	2302.0
40°	3331.7	3344.2	3338.7	3233.3	3137.7	2967.2	2672.0	2601.4	2595.8	2656.8	2569.5
42.5°	3599.2	3628.3	3613.1	3592.3	3477.3	3410.7	3076.7	2968.6	2920.1	3044.8	2965.9
45°	4003.9	4015.0	4024.7	3973.4	3858.4	3872.2	3495.3	3366.4	3353.9	3539.6	3362.2
47.5°	4382.3	4353.1	4421.1	4423.8	4418.3	4354.5	3947.1	3851.4	3868.1	4009.4	3826.5
50°	4476.5	4551.3	4738.4	4773.1	4863.2	4921.4	4448.8	4353.1	4380.9	4541.6	4332.4
52.5°	4549.9	4663.6	4850.7	5104.3	5346.8	5485.4	5010.1	4932.5	4931.1	5029.5	4741.2
55°	4678.8	4748.1	4910.3	5259.5	5721.0	5948.3	5686.4	5561.7	5449.4	5518.7	5165.3
57.5°	4666.4	4692.7	4944.9	5376.0	6017.6	6430.6	6242.1	6123.0	5978.8	5938.6	5653.1
60°	4447.4	4509.8	4792.5	5297.0	6200.6	6806.2	6760.5	6638.5	6390.4	6296.2	6027.3
62.5°	4013.6	4096.8	4318.5	5019.8	5934.5	6825.6	7118.0	7072.3	6795.1	6626.0	6515.2
65°	3252.7	3291.5	3546.5	4315.7	5333.0	6527.6	7540.7	7483.9	7228.9	6976.7	6766.0
67.5°	2106.6	2144.0	2389.3	3080.9	4188.2	5758.5	7524.1	7680.7	7404.9	7101.4	6609.4
70°	995.1	985.4	1214.1	1711.6	2683.1	4397.5	7015.5	7324.5	7090.3	6437.6	5489.6
72.5°	303.5	329.8	504.5	758.1	1377.6	2742.7	5499.3	5789.0	5715.5	5143.1	3664.4
75°	134.4	145.5	198.2	310.4	558.5	1125.4	3396.9	3654.7	3622.8	3033.8	1672.8
77.5°	85.9	94.2	124.7	177.4	253.6	357.6	1564.7	1815.5	1760.1	1065.8	437.9
80°	61.0	65.1	88.7	122.0	159.4	146.9	539.1	640.3	614.0	289.7	117.8
82.5°	33.3	36.0	65.1	90.1	106.7	74.8	151.1	188.5	196.8	128.9	56.8
85°	12.5	15.2	40.2	63.8	55.4	34.6	44.3	54.1	70.7	70.7	26.3
87.5°	0.0	1.4	16.6	27.7	13.9	9.7	12.5	15.2	19.4	33.3	9.7
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°	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4	1100.4
2.5°	1112.9	1103.2	1107.3	1114.3	1099.0	1107.3	1090.7	1103.2	1107.3	1090.7	1099.0
5°	1126.7	1136.4	1130.9	1119.8	1110.1	1112.9	1108.7	1099.0	1107.3	1110.1	1104.6
7.5°	1166.9	1155.9	1158.6	1146.1	1126.7	1125.4	1099.0	1092.1	1094.9	1097.6	1087.9
10°	1204.4	1211.3	1197.4	1187.7	1155.9	1135.1	1099.0	1060.2	1056.1	1039.4	1053.3
12.5°	1270.9	1254.3	1248.7	1216.8	1185.0	1115.7	1038.0	978.5	928.6	910.5	892.5
15°	1326.3	1323.5	1313.8	1265.3	1191.9	1065.8	918.9	780.3	684.6	625.0	616.7
17.5°	1402.5	1390.1	1372.1	1295.8	1140.6	935.5	684.6	510.0	414.4	377.0	363.1
20°	1460.8	1451.0	1426.1	1288.9	1047.7	697.1	424.1	324.3	300.7	293.8	295.2
22.5°	1545.3	1514.8	1467.7	1254.3	878.7	464.3	304.9	289.7	285.5	280.0	281.3
25°	1618.7	1591.0	1492.6	1194.7	626.4	307.7	282.7	274.4	267.5	260.6	259.2
27.5°	1683.9	1649.2	1519.0	1072.7	392.2	264.7	261.9	252.2	238.4	227.3	223.1
30°	1747.6	1707.4	1525.9	844.0	264.7	239.8	232.8	217.6	199.6	184.3	181.6
32.5°	1854.4	1805.8	1516.2	602.9	228.7	213.4	198.2	180.2	153.8	141.4	138.6
35°	2020.7	1947.2	1503.7	354.8	205.1	188.5	164.9	141.4	122.0	109.5	106.7
37.5°	2211.9	2084.4	1467.7	237.0	188.5	166.3	135.8	112.3	95.6	85.9	83.2
40°	2496.0	2285.4	1329.1	194.0	167.7	141.4	109.5	88.7	76.2	69.3	66.5
42.5°	2809.2	2515.4	1115.7	174.6	148.3	120.6	87.3	72.1	62.4	55.4	55.4
45°	3184.8	2755.2	860.7	159.4	131.7	99.8	72.1	58.2	49.9	44.3	41.6
47.5°	3603.4	2972.8	580.7	144.1	110.9	81.8	59.6	44.3	36.0	31.9	31.9
50°	3977.6	3165.4	370.0	126.1	97.0	67.9	48.5	36.0	29.1	23.6	22.2
52.5°	4317.1	3312.3	255.0	110.9	83.2	55.4	40.2	29.1	22.2	18.0	18.0
55°	4665.0	3387.2	188.5	95.6	72.1	47.1	33.3	26.3	19.4	15.2	13.9
57.5°	4950.5	3419.0	144.1	83.2	61.0	37.4	29.1	22.2	16.6	12.5	11.1
60°	5194.4	3403.8	112.3	69.3	48.5	31.9	24.9	18.0	13.9	9.7	8.3
62.5°	5337.1	3312.3	88.7	59.6	38.8	27.7	20.8	15.2	9.7	6.9	5.5
65°	5339.9	3118.3	69.3	44.3	29.1	23.6	18.0	12.5	6.9	2.8	1.4
67.5°	4957.4	2698.4	55.4	34.6	23.6	18.0	13.9	9.7	2.8	0.0	0.0
70°	3877.8	2041.4	45.7	27.7	19.4	15.2	9.7	5.5	1.4	0.0	0.0
72.5°	2471.1	1222.4	37.4	22.2	16.6	11.1	6.9	4.2	0.0	0.0	0.0
75°	1033.9	377.0	29.1	19.4	12.5	8.3	5.5	1.4	0.0	0.0	0.0
77.5°	266.1	119.2	23.6	16.6	12.5	6.9	4.2	1.4	0.0	0.0	0.0
80°	79.0	44.3	19.4	13.9	9.7	5.5	2.8	1.4	0.0	0.0	0.0
82.5°	36.0	26.3	16.6	12.5	8.3	5.5	2.8	0.0	0.0	0.0	0.0
85°	13.9	8.3	8.3	6.9	6.9	4.2	1.4	0.0	0.0	0.0	0.0
87.5°	5.5	2.8	2.8	2.8	1.4	1.4	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)