

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: P481549

Luminaire Tested: **IFLD-S-SA3A-727-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

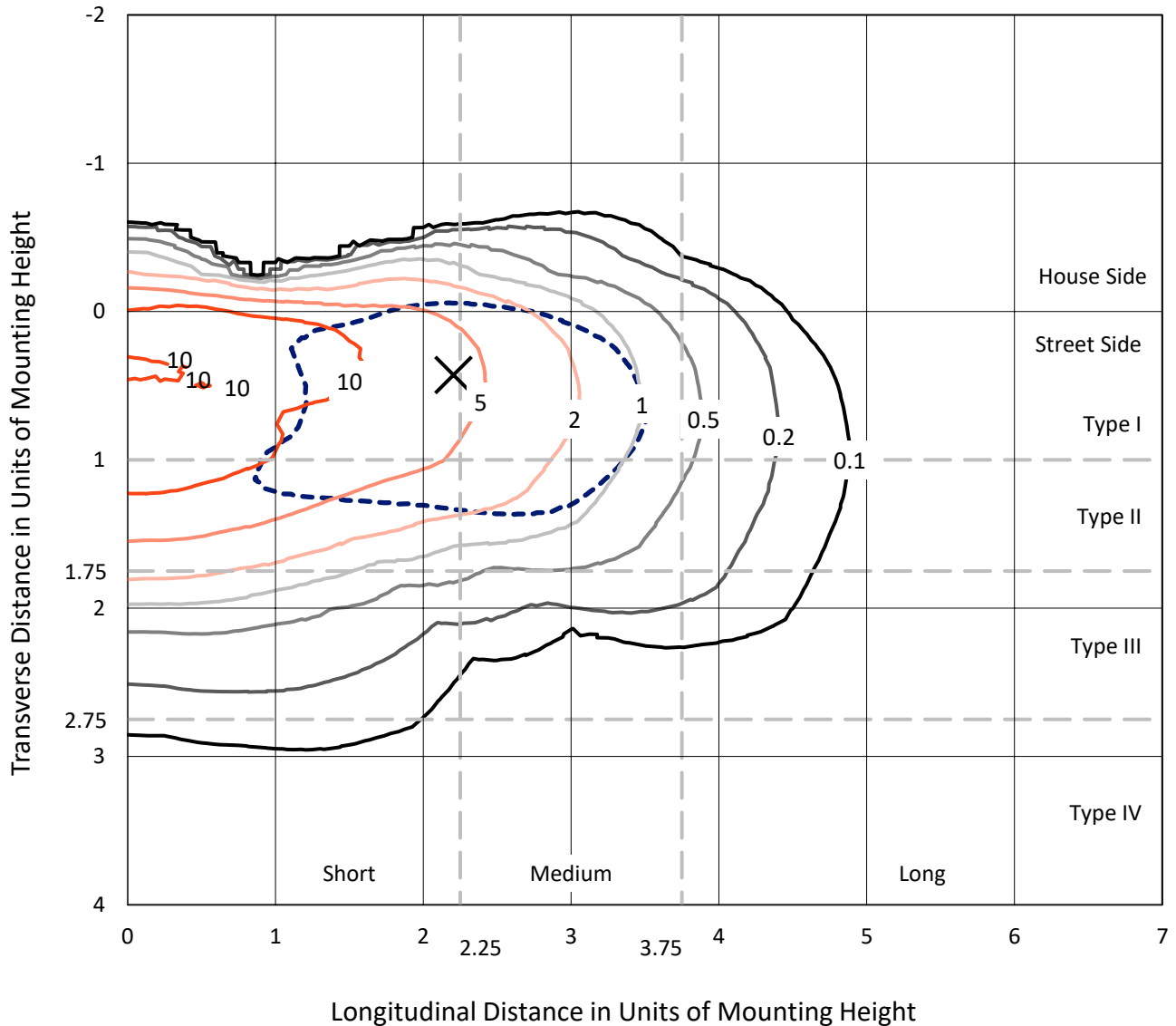
Lumens per Lamp: N/A
Luminaire Lumens: 8286.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
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

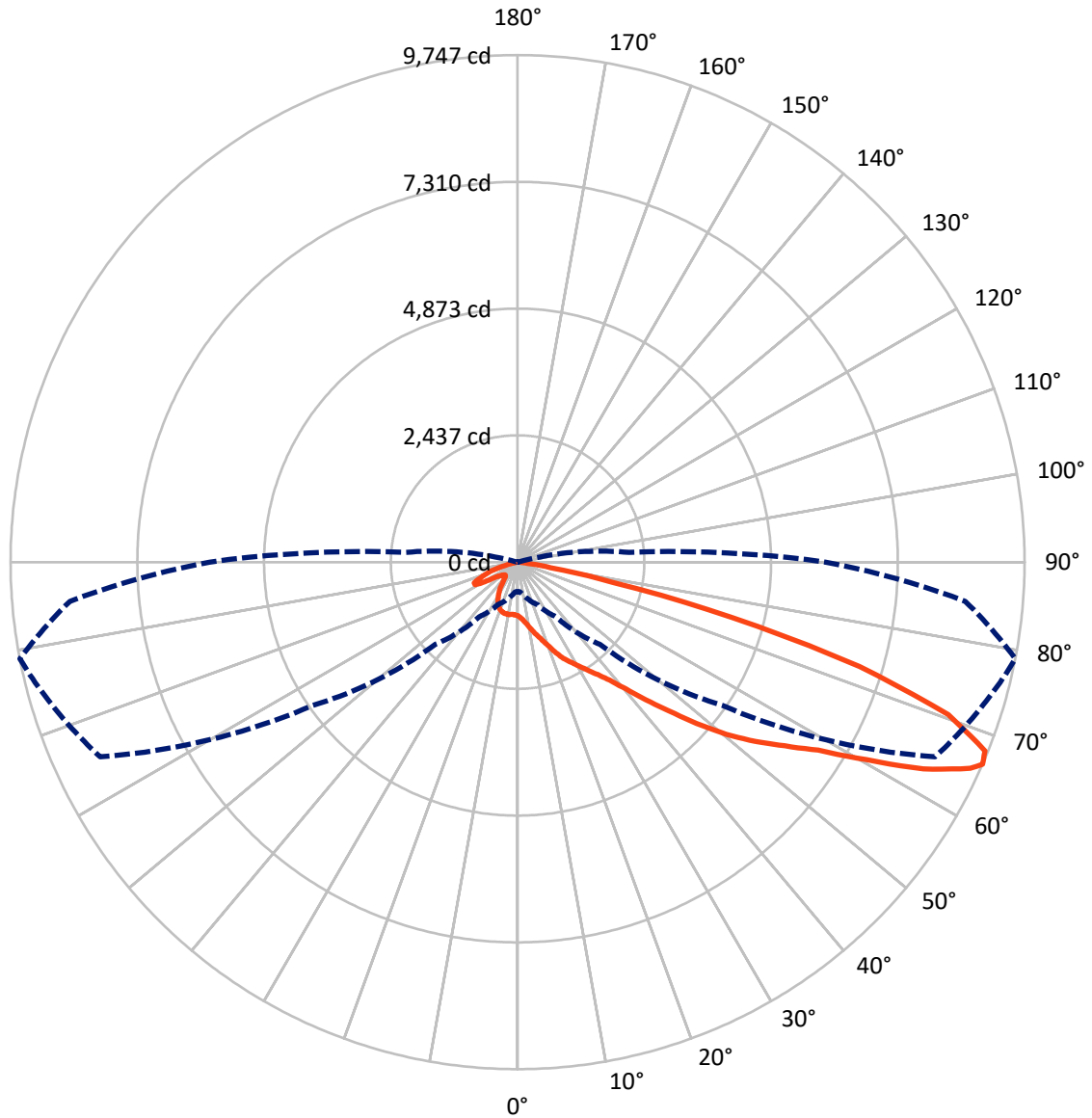
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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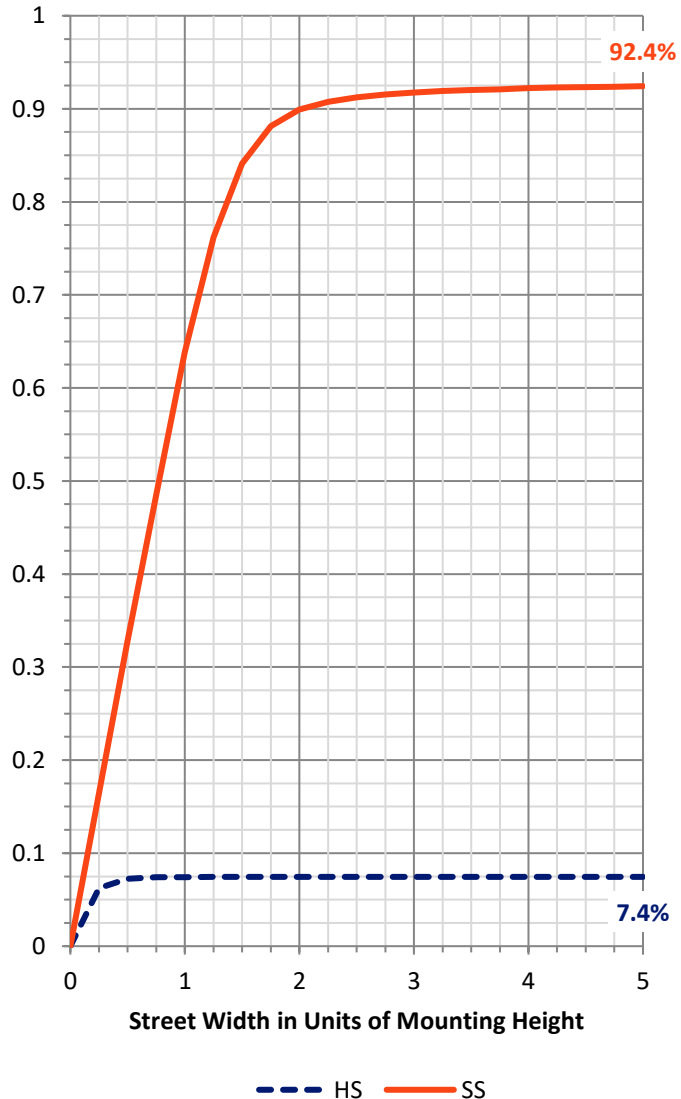
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	622.2	0.0	622.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7663.9	0.0	7663.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	8286.1	0.0	8286.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.2
10°-20°	268.3	3.2
20°-30°	445.7	5.4
30°-40°	765.6	9.2
40°-50°	1387.0	16.7
50°-60°	2192.4	26.5
60°-70°	2231.0	26.9
70°-80°	850.8	10.3
80°-90°	47.7	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°	8286.1	100.0
0°-180°	8286.1	100.0

Coefficient of Utilization

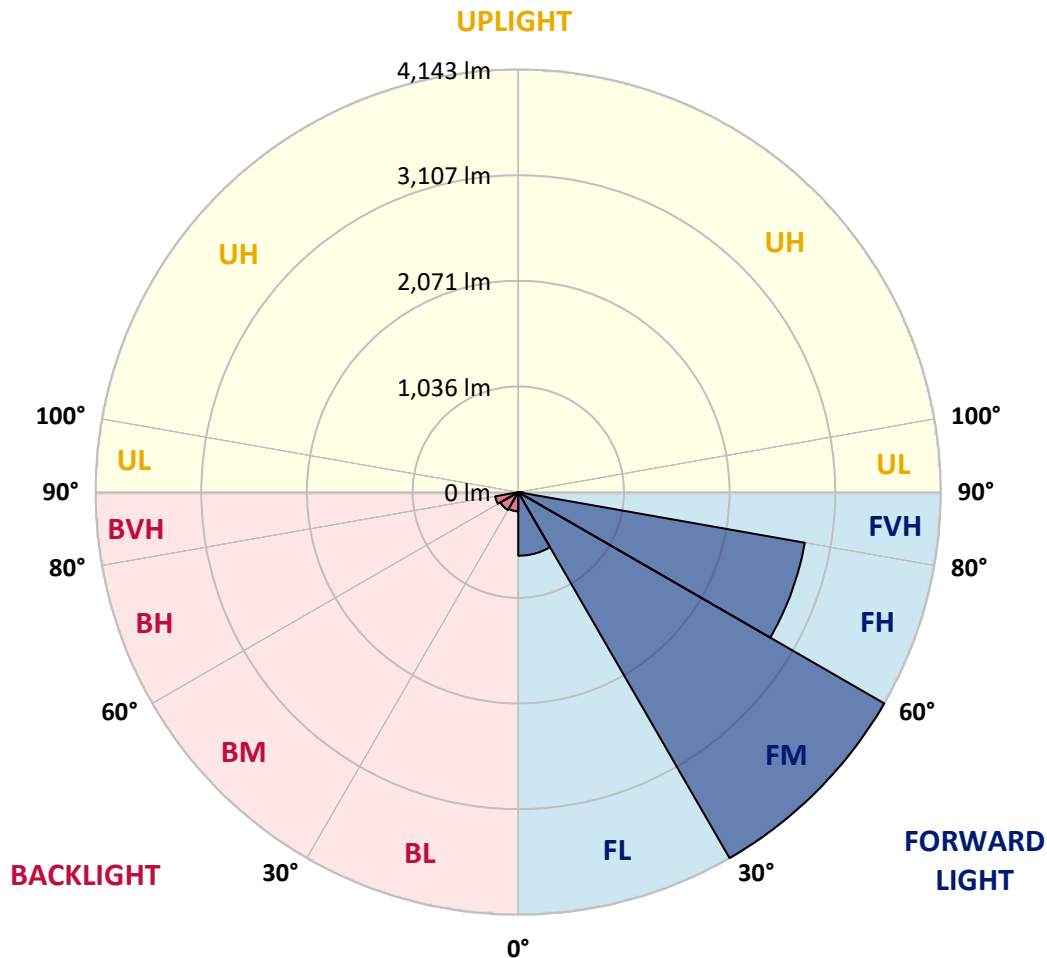


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.4	7.5			
FM (30°-60°)	4142.9	50.0			
FH (60°-80°)	2852.4	34.4			G2/5000
FVH (80°-90°)	45.3	0.5			G1/100
BL (0°-30°)	188.2	2.3	B1/500		
BM (30°-60°)	202.2	2.4	B0/220		
BH (60°-80°)	229.4	2.8	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°	65°	75°	79°	85°
0°	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9
2.5°	1167.6	1166.3	1161.2	1152.2	1140.7	1136.9	1120.3	1097.3	1084.5	1070.5	1064.1
5°	1248.1	1241.7	1257.0	1250.6	1253.2	1222.5	1202.1	1185.5	1136.9	1117.8	1087.1
7.5°	1265.9	1272.3	1271.0	1281.3	1291.5	1303.0	1288.9	1264.7	1216.1	1188.0	1154.8
10°	1265.9	1263.4	1273.6	1287.7	1317.0	1342.6	1380.9	1349.0	1311.9	1278.7	1218.7
12.5°	1242.9	1239.1	1249.3	1278.7	1331.1	1383.5	1425.6	1456.3	1403.9	1377.1	1299.2
15°	1172.7	1168.9	1211.0	1263.4	1332.4	1418.0	1506.1	1555.9	1520.1	1478.0	1391.1
17.5°	1085.8	1090.9	1135.6	1222.5	1332.4	1434.6	1547.0	1655.6	1650.4	1596.8	1506.1
20°	1056.4	1060.3	1105.0	1167.6	1292.8	1446.1	1610.8	1764.1	1794.8	1730.9	1612.1
22.5°	1112.6	1108.8	1112.6	1151.0	1265.9	1435.8	1653.0	1888.0	1943.0	1893.2	1751.4
25°	1304.3	1301.7	1269.8	1211.0	1250.6	1412.8	1674.7	1969.8	2096.3	2050.3	1863.8
27.5°	1585.3	1575.1	1525.3	1402.6	1322.1	1426.9	1710.5	2049.0	2230.4	2178.0	1964.7
30°	1886.8	1862.5	1797.4	1644.1	1507.4	1479.3	1730.9	2107.8	2379.9	2313.4	2052.8
32.5°	2095.0	2126.9	2106.5	1950.6	1741.1	1600.6	1764.1	2181.9	2517.8	2474.4	2203.6
35°	2416.9	2454.0	2368.4	2230.4	2019.6	1793.5	1834.4	2241.9	2729.9	2657.1	2344.1
37.5°	2823.1	2851.2	2789.9	2528.0	2305.8	2031.1	1978.7	2367.1	2912.6	2878.1	2524.2
40°	3027.5	3162.9	3076.1	2839.7	2600.9	2363.3	2217.6	2514.0	3230.6	3202.5	2773.3
42.5°	3309.8	3377.5	3332.8	3157.8	2908.7	2718.4	2512.7	2800.1	3616.4	3616.4	3110.6
45°	3608.8	3611.3	3608.8	3465.7	3244.7	3146.3	2911.3	3159.1	4031.6	4077.6	3514.2
47.5°	3854.0	3930.7	3924.3	3838.7	3667.5	3630.5	3309.8	3567.9	4552.8	4633.3	3907.7
50°	3980.5	4066.1	4091.6	4136.3	4128.7	4206.6	3745.4	4041.8	5002.4	5200.4	4413.5
52.5°	3946.0	3952.4	4109.5	4285.8	4566.8	4785.3	4270.5	4579.6	5528.7	5724.2	4804.4
55°	3663.7	3639.4	3962.6	4164.4	4745.7	5139.1	4997.3	5250.3	5938.8	6236.4	5208.1
57.5°	3044.1	3050.5	3349.4	3759.5	4612.8	5279.6	5774.0	6126.6	6513.6	6813.8	5775.3
60°	2101.4	2093.7	2428.4	2902.3	3832.3	5017.8	6221.1	7262.2	7282.7	7708.0	6793.4
62.5°	1181.6	1184.2	1438.4	1843.3	2681.3	4100.6	6199.4	8468.1	8381.2	8754.3	7950.8
65°	669.4	686.0	861.0	1092.2	1605.7	2752.9	5332.0	8948.4	9228.2	9560.3	8653.3
66°	565.9	577.4	726.9	901.9	1281.3	2233.0	4799.3	8855.2	9493.9	9746.8	8639.3
67.5°	438.2	453.5	578.7	715.4	940.2	1545.7	3863.0	8391.5	9542.4	9690.6	8395.3
70°	300.2	310.4	406.2	542.9	642.5	790.7	2309.6	6937.7	8658.5	8783.6	7296.7
72.5°	210.8	215.9	284.9	411.3	494.4	452.2	1145.9	4936.0	6626.1	6870.0	5675.6
75°	152.0	157.1	195.4	295.1	385.8	296.4	525.0	3152.7	4063.5	4255.1	3418.4
77.5°	109.9	116.2	132.9	190.3	279.8	208.2	258.0	1646.6	1916.2	1882.9	1470.3
80°	66.4	72.8	98.4	122.6	204.4	146.9	141.8	687.3	679.6	645.1	462.4
82.5°	30.7	35.8	52.4	83.0	143.1	102.2	67.7	245.3	214.6	196.7	130.3
85°	8.9	11.5	30.7	62.6	72.8	49.8	40.9	84.3	88.1	75.4	43.4
87.5°	0.0	1.3	14.1	15.3	21.7	16.6	15.3	21.7	40.9	33.2	14.1
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°	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9	1030.9
2.5°	1041.1	1032.2	1010.5	977.2	947.9	932.5	910.8	891.6	881.4	880.2	878.9
5°	1066.7	1042.4	990.0	930.0	885.3	836.7	803.5	779.2	756.2	734.5	747.3
7.5°	1101.1	1062.8	977.2	899.3	802.2	739.6	680.9	646.4	625.9	606.8	604.2
10°	1154.8	1106.3	968.3	827.8	716.6	624.7	564.6	514.8	486.7	453.5	466.3
12.5°	1227.6	1140.7	935.1	762.6	619.6	522.5	436.9	356.4	311.7	277.2	278.5
15°	1300.4	1186.7	904.4	683.4	531.4	403.7	278.5	223.6	210.8	203.1	205.7
17.5°	1372.0	1223.8	857.2	602.9	430.5	256.8	203.1	191.6	185.2	177.6	177.6
20°	1458.8	1248.1	798.4	528.9	296.4	190.3	173.7	166.1	155.8	145.6	146.9
22.5°	1543.1	1268.5	730.7	434.3	199.3	164.8	145.6	135.4	126.5	116.2	116.2
25°	1627.5	1274.9	642.5	311.7	161.0	131.6	113.7	99.6	90.7	81.8	83.0
27.5°	1684.9	1235.3	559.5	199.3	129.0	99.6	79.2	67.7	60.0	51.1	51.1
30°	1718.1	1162.5	470.1	140.5	97.1	67.7	47.3	35.8	28.1	21.7	20.4
32.5°	1751.4	1103.7	369.2	107.3	63.9	35.8	17.9	6.4	0.0	0.0	0.0
35°	1817.8	1037.3	247.8	60.0	21.7	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1859.9	945.3	113.7	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1966.0	899.3	28.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2138.4	867.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2327.5	854.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2579.1	889.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2844.8	982.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3136.1	1070.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3390.3	1176.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3857.9	1426.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4697.1	1918.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5642.4	2284.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5988.6	2275.1	24.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5927.3	2149.9	24.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5609.2	1909.8	21.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4817.2	1577.6	21.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3672.6	1228.9	20.4	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2216.3	654.0	16.6	6.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	882.7	229.9	12.8	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	238.9	69.0	7.7	5.1	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	62.6	25.5	6.4	5.1	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	24.3	10.2	5.1	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	7.7	3.8	3.8	2.6	2.6	1.3	1.3	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)