

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: P482441

Luminaire Tested: **IFLD-S-SA2A-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

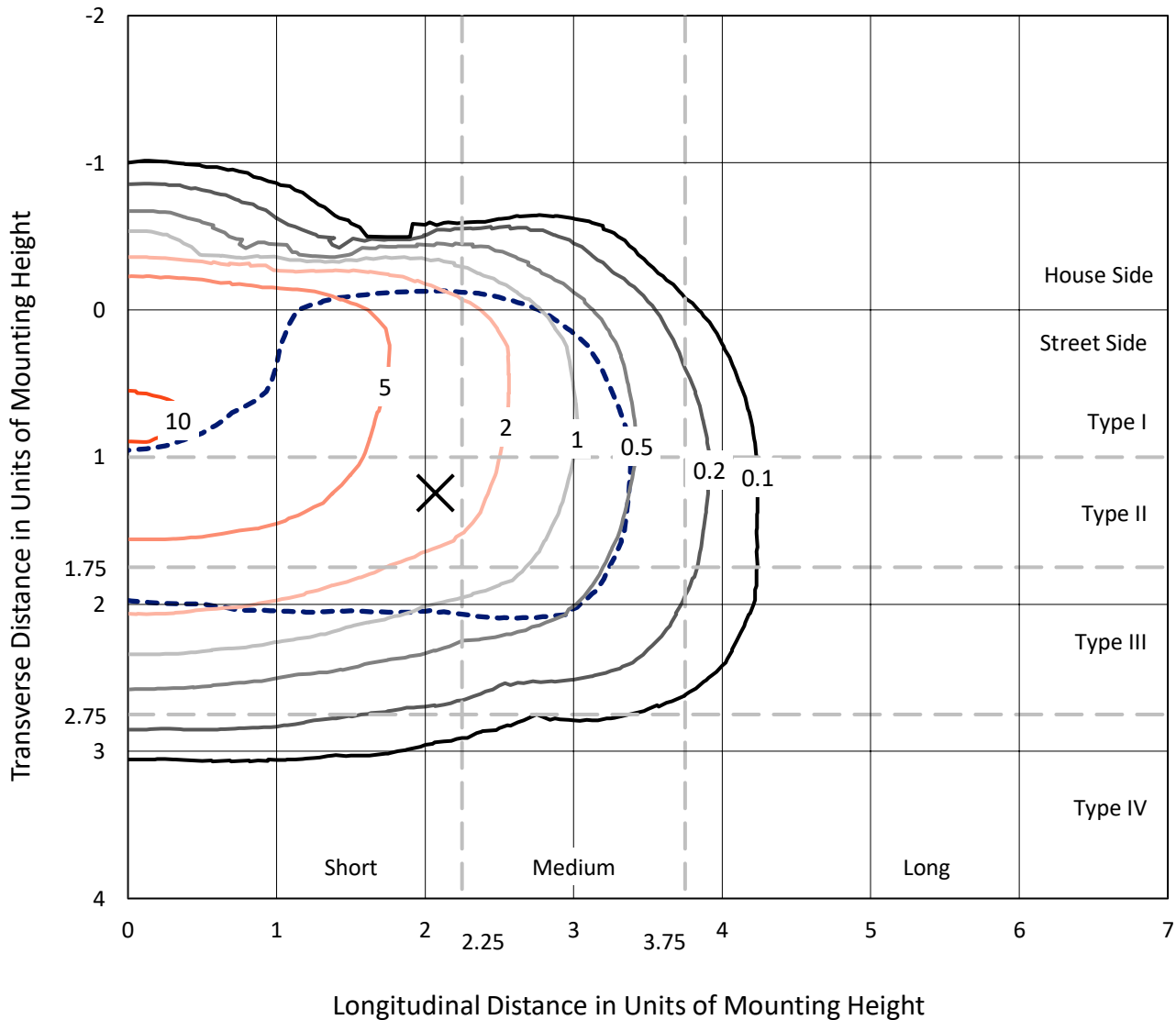
Lumens per Lamp: N/A
Luminaire Lumens: 6850.5 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

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Iso-Footcandle Lines of Horizontal Illumination

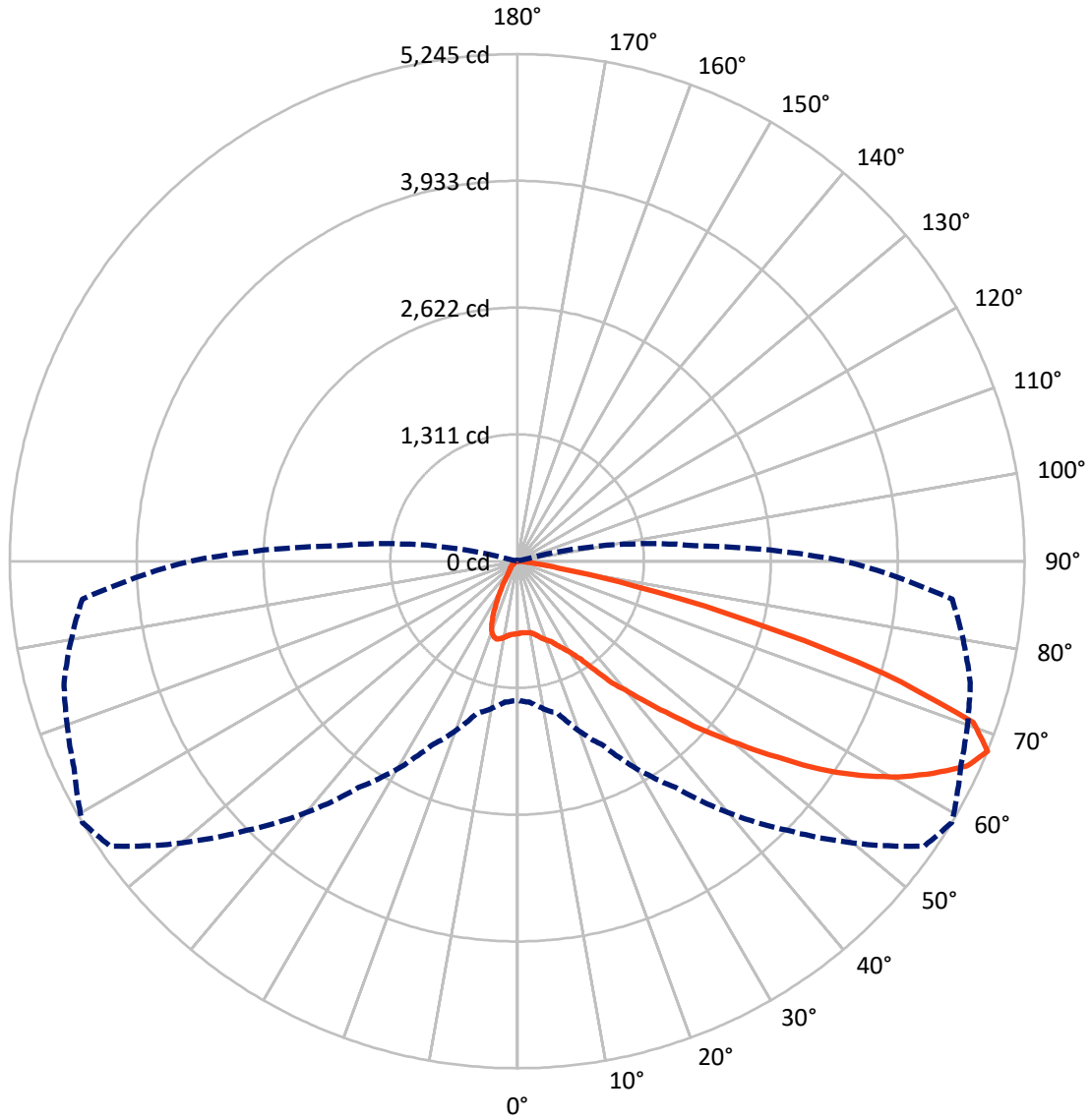
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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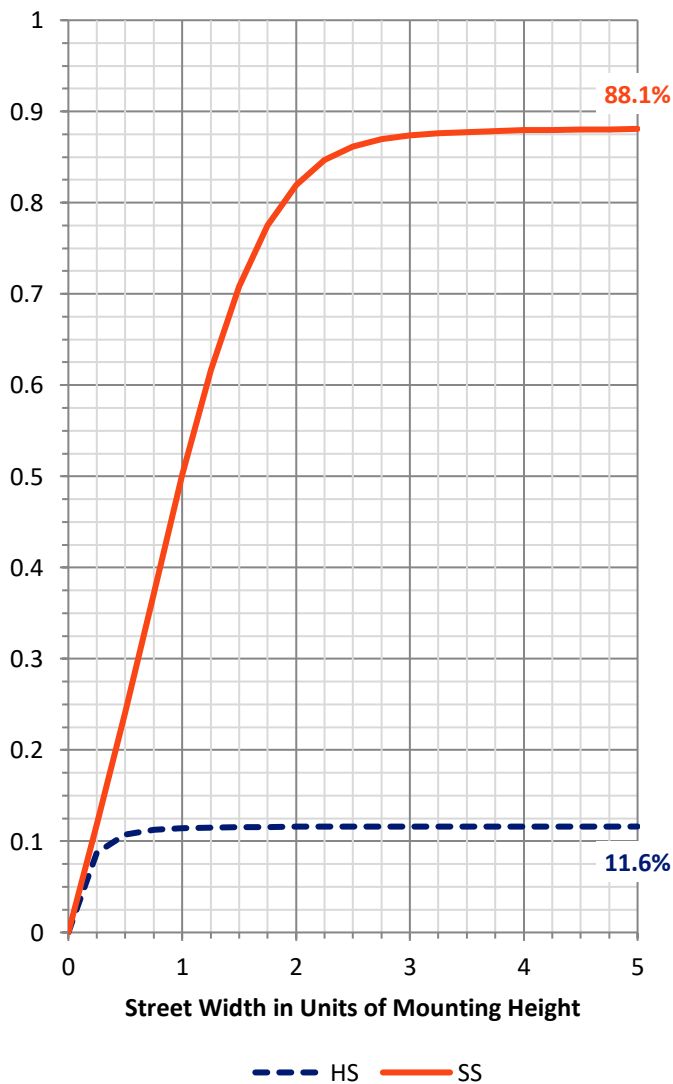
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.7	0.0	804.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6045.8	0.0	6045.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	6850.5	0.0	6850.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.0
10°-20°	206.2	3.0
20°-30°	360.3	5.3
30°-40°	634.4	9.3
40°-50°	1121.4	16.4
50°-60°	1775.6	25.9
60°-70°	1969.6	28.8
70°-80°	683.4	10.0
80°-90°	28.1	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°	6850.5	100.0
0°-180°	6850.5	100.0

Coefficient of Utilization

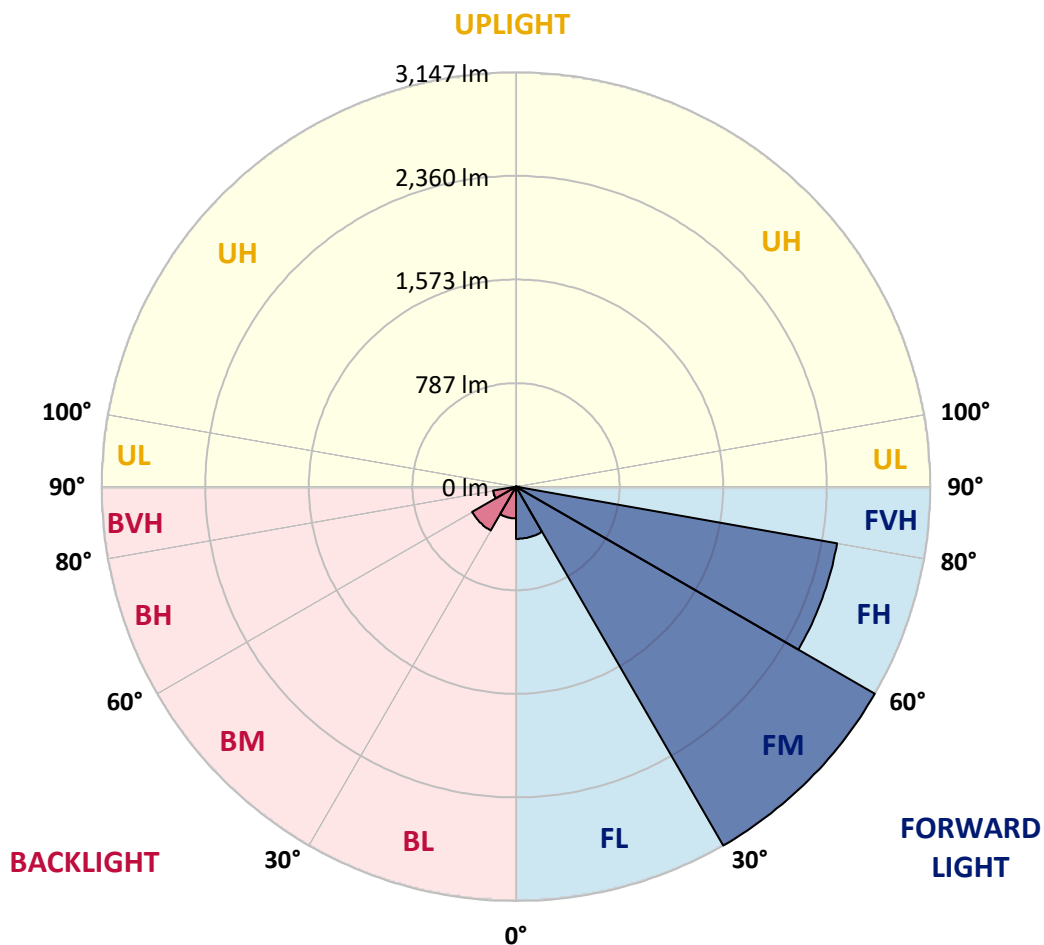


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.7	5.8			
FM (30°-60°)	3146.7	45.9			
FH (60°-80°)	2476.1	36.1			G2/5000
FVH (80°-90°)	26.3	0.4			G1/100
BL (0°-30°)	241.2	3.5	B1/500		
BM (30°-60°)	384.7	5.6	B1/1000		
BH (60°-80°)	177.0	2.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4
2.5°	729.6	719.2	728.7	729.6	730.6	739.1	748.5	741.9	741.0	748.5	755.2
5°	700.3	695.5	706.9	712.6	722.0	729.6	744.8	745.7	746.6	755.2	766.5
7.5°	688.0	676.6	689.9	696.5	703.1	721.1	739.1	748.5	761.8	772.2	783.6
10°	663.4	671.9	675.7	687.0	706.0	726.8	748.5	753.3	782.6	791.1	818.6
12.5°	671.9	677.6	685.1	688.0	708.8	740.0	769.4	771.3	801.5	838.4	852.6
15°	693.7	689.9	692.7	696.5	721.1	746.6	794.0	802.5	830.9	872.5	907.5
17.5°	740.0	733.4	728.7	727.7	733.4	757.1	812.9	838.4	864.9	921.7	939.7
20°	856.4	850.7	831.8	782.6	765.6	775.0	835.6	871.6	908.5	971.9	1001.2
22.5°	1033.4	1039.1	994.6	925.5	854.5	817.6	871.6	902.8	961.5	1041.9	1068.4
25°	1242.5	1231.2	1177.2	1096.8	985.1	898.1	929.3	964.3	1036.2	1102.5	1112.9
27.5°	1406.2	1393.0	1351.3	1253.9	1157.4	1016.4	1005.0	1026.8	1111.9	1171.5	1160.2
30°	1568.1	1572.8	1544.4	1428.9	1309.7	1161.1	1089.2	1098.7	1164.0	1240.6	1215.1
32.5°	1774.4	1763.0	1746.9	1645.7	1504.7	1345.7	1222.6	1207.5	1235.9	1337.2	1306.9
35°	1966.5	1959.8	1938.1	1835.9	1712.8	1539.7	1419.5	1385.4	1378.8	1491.4	1438.4
37.5°	2134.0	2122.6	2089.5	2024.2	1904.9	1759.2	1627.7	1597.4	1596.4	1674.0	1571.8
40°	2275.0	2283.5	2279.7	2207.8	2142.5	2026.1	1824.5	1776.2	1772.5	1814.1	1754.5
42.5°	2457.6	2477.5	2467.1	2452.9	2374.3	2328.9	2100.8	2027.0	1993.9	2079.1	2025.1
45°	2733.9	2741.5	2748.1	2713.1	2634.6	2644.0	2386.6	2298.6	2290.1	2416.9	2295.8
47.5°	2992.3	2972.4	3018.8	3020.7	3016.9	2973.3	2695.1	2629.8	2641.2	2737.7	2612.8
50°	3056.6	3107.7	3235.5	3259.1	3320.6	3360.4	3037.7	2972.4	2991.3	3101.1	2958.2
52.5°	3106.8	3184.4	3312.1	3485.3	3650.9	3745.5	3421.0	3368.0	3367.0	3434.2	3237.4
55°	3194.8	3242.1	3352.8	3591.3	3906.4	4061.6	3882.8	3797.6	3720.9	3768.3	3526.9
57.5°	3186.3	3204.2	3376.5	3670.8	4108.9	4390.9	4262.2	4180.9	4082.4	4055.0	3860.0
60°	3036.7	3079.3	3272.4	3616.8	4233.8	4647.4	4616.2	4532.9	4363.5	4299.1	4115.6
62.5°	2740.6	2797.3	2948.7	3427.6	4052.2	4660.6	4860.3	4829.1	4639.8	4524.4	4448.7
65°	2221.0	2247.5	2421.6	2946.8	3641.4	4457.2	5148.9	5110.1	4936.0	4763.8	4619.9
67.5°	1438.4	1464.0	1631.5	2103.7	2859.8	3932.0	5137.6	5244.5	5056.2	4849.0	4513.0
70°	679.5	672.8	829.0	1168.7	1832.1	3002.7	4790.3	5001.3	4841.4	4395.7	3748.4
72.5°	207.2	225.2	344.5	517.6	940.6	1872.8	3755.0	3952.8	3902.6	3511.8	2502.1
75°	91.8	99.4	135.3	212.0	381.4	768.4	2319.4	2495.5	2473.7	2071.5	1142.2
77.5°	58.7	64.3	85.2	121.1	173.2	244.2	1068.4	1239.7	1201.8	727.7	299.0
80°	41.6	44.5	60.6	83.3	108.8	100.3	368.1	437.2	419.2	197.8	80.4
82.5°	22.7	24.6	44.5	61.5	72.9	51.1	103.1	128.7	134.4	88.0	38.8
85°	8.5	10.4	27.4	43.5	37.9	23.7	30.3	36.9	48.3	48.3	18.0
87.5°	0.0	0.9	11.4	18.9	9.5	6.6	8.5	10.4	13.2	22.7	6.6
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°	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4	751.4
2.5°	759.9	753.3	756.1	760.8	750.4	756.1	744.8	753.3	756.1	744.8	750.4
5°	769.4	776.0	772.2	764.6	758.0	759.9	757.1	750.4	756.1	758.0	754.2
7.5°	796.8	789.2	791.1	782.6	769.4	768.4	750.4	745.7	747.6	749.5	742.9
10°	822.4	827.1	817.6	811.0	789.2	775.0	750.4	723.9	721.1	709.7	719.2
12.5°	867.8	856.4	852.6	830.9	809.1	761.8	708.8	668.1	634.0	621.7	609.4
15°	905.6	903.7	897.1	864.0	813.8	727.7	627.4	532.8	467.5	426.8	421.1
17.5°	957.7	949.2	936.9	884.8	778.8	638.8	467.5	348.2	283.0	257.4	247.9
20°	997.4	990.8	973.8	880.1	715.4	476.0	289.6	221.4	205.4	200.6	201.6
22.5°	1055.1	1034.3	1002.2	856.4	600.0	317.0	208.2	197.8	194.9	191.2	192.1
25°	1105.3	1086.4	1019.2	815.7	427.7	210.1	193.0	187.4	182.6	177.9	177.0
27.5°	1149.8	1126.1	1037.2	732.5	267.8	180.7	178.9	172.2	162.8	155.2	152.4
30°	1193.3	1165.9	1041.9	576.3	180.7	163.7	159.0	148.6	136.3	125.9	124.0
32.5°	1266.2	1233.1	1035.3	411.7	156.1	145.7	135.3	123.0	105.0	96.5	94.6
35°	1379.7	1329.6	1026.8	242.3	140.1	128.7	112.6	96.5	83.3	74.8	72.9
37.5°	1510.3	1423.3	1002.2	161.8	128.7	113.6	92.7	76.7	65.3	58.7	56.8
40°	1704.3	1560.5	907.5	132.5	114.5	96.5	74.8	60.6	52.0	47.3	45.4
42.5°	1918.2	1717.6	761.8	119.2	101.3	82.3	59.6	49.2	42.6	37.9	37.9
45°	2174.6	1881.3	587.7	108.8	89.9	68.1	49.2	39.7	34.1	30.3	28.4
47.5°	2460.4	2029.9	396.5	98.4	75.7	55.8	40.7	30.3	24.6	21.8	21.8
50°	2715.9	2161.4	252.7	86.1	66.2	46.4	33.1	24.6	19.9	16.1	15.1
52.5°	2947.8	2261.7	174.1	75.7	56.8	37.9	27.4	19.9	15.1	12.3	12.3
55°	3185.3	2312.8	128.7	65.3	49.2	32.2	22.7	18.0	13.2	10.4	9.5
57.5°	3380.3	2334.6	98.4	56.8	41.6	25.6	19.9	15.1	11.4	8.5	7.6
60°	3546.8	2324.2	76.7	47.3	33.1	21.8	17.0	12.3	9.5	6.6	5.7
62.5°	3644.3	2261.7	60.6	40.7	26.5	18.9	14.2	10.4	6.6	4.7	3.8
65°	3646.2	2129.2	47.3	30.3	19.9	16.1	12.3	8.5	4.7	1.9	0.9
67.5°	3385.0	1842.5	37.9	23.7	16.1	12.3	9.5	6.6	1.9	0.0	0.0
70°	2647.8	1393.9	31.2	18.9	13.2	10.4	6.6	3.8	0.9	0.0	0.0
72.5°	1687.3	834.7	25.6	15.1	11.4	7.6	4.7	2.8	0.0	0.0	0.0
75°	706.0	257.4	19.9	13.2	8.5	5.7	3.8	0.9	0.0	0.0	0.0
77.5°	181.7	81.4	16.1	11.4	8.5	4.7	2.8	0.9	0.0	0.0	0.0
80°	53.9	30.3	13.2	9.5	6.6	3.8	1.9	0.9	0.0	0.0	0.0
82.5°	24.6	18.0	11.4	8.5	5.7	3.8	1.9	0.0	0.0	0.0	0.0
85°	9.5	5.7	5.7	4.7	4.7	2.8	0.9	0.0	0.0	0.0	0.0
87.5°	3.8	1.9	1.9	1.9	0.9	0.9	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)