

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: P483494

Luminaire Tested: **IFLD-S-SA2A-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483494
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

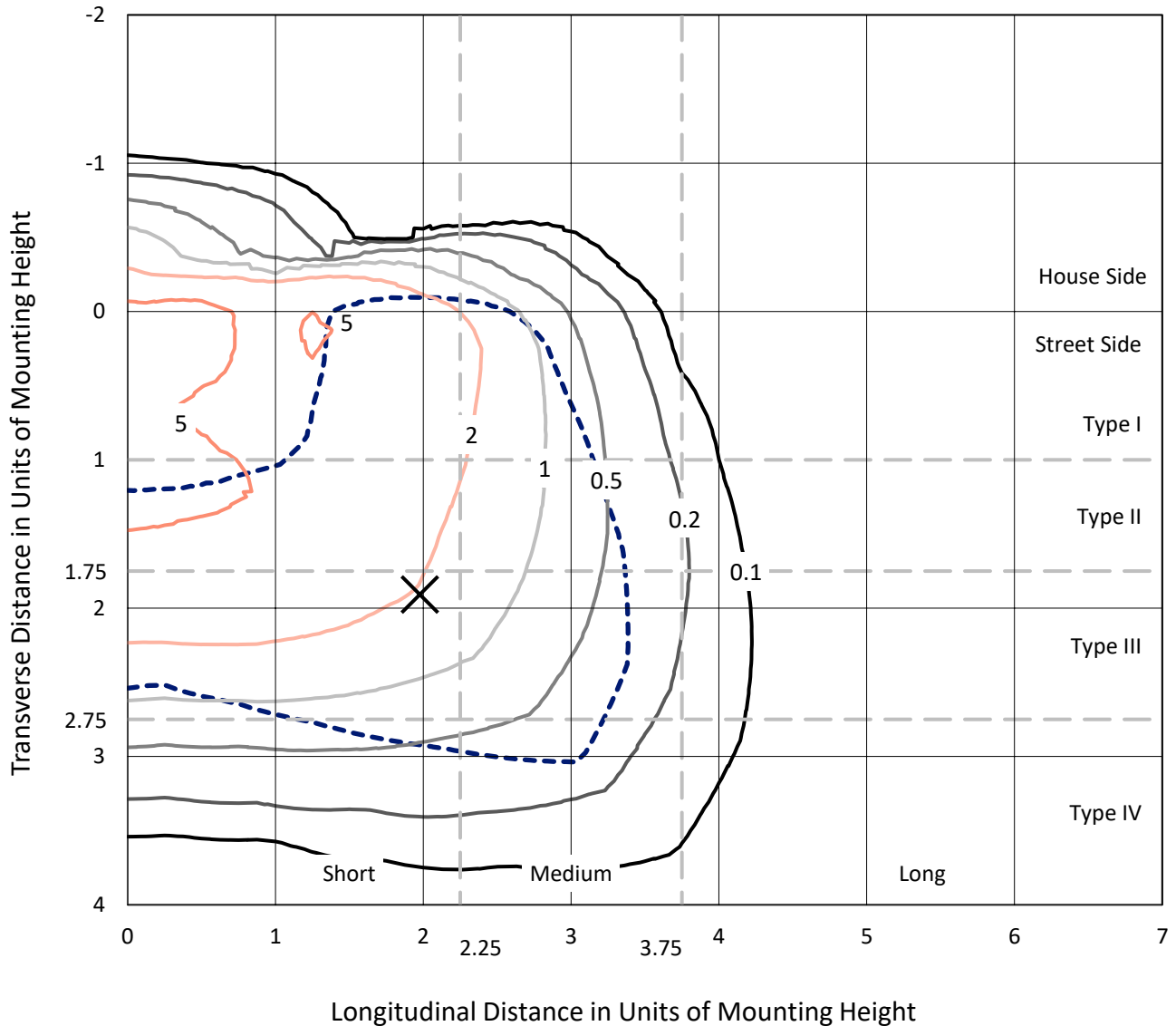
Lumens per Lamp: N/A
Luminaire Lumens: 5696.7 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

REPORT NUMBER: P483494
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

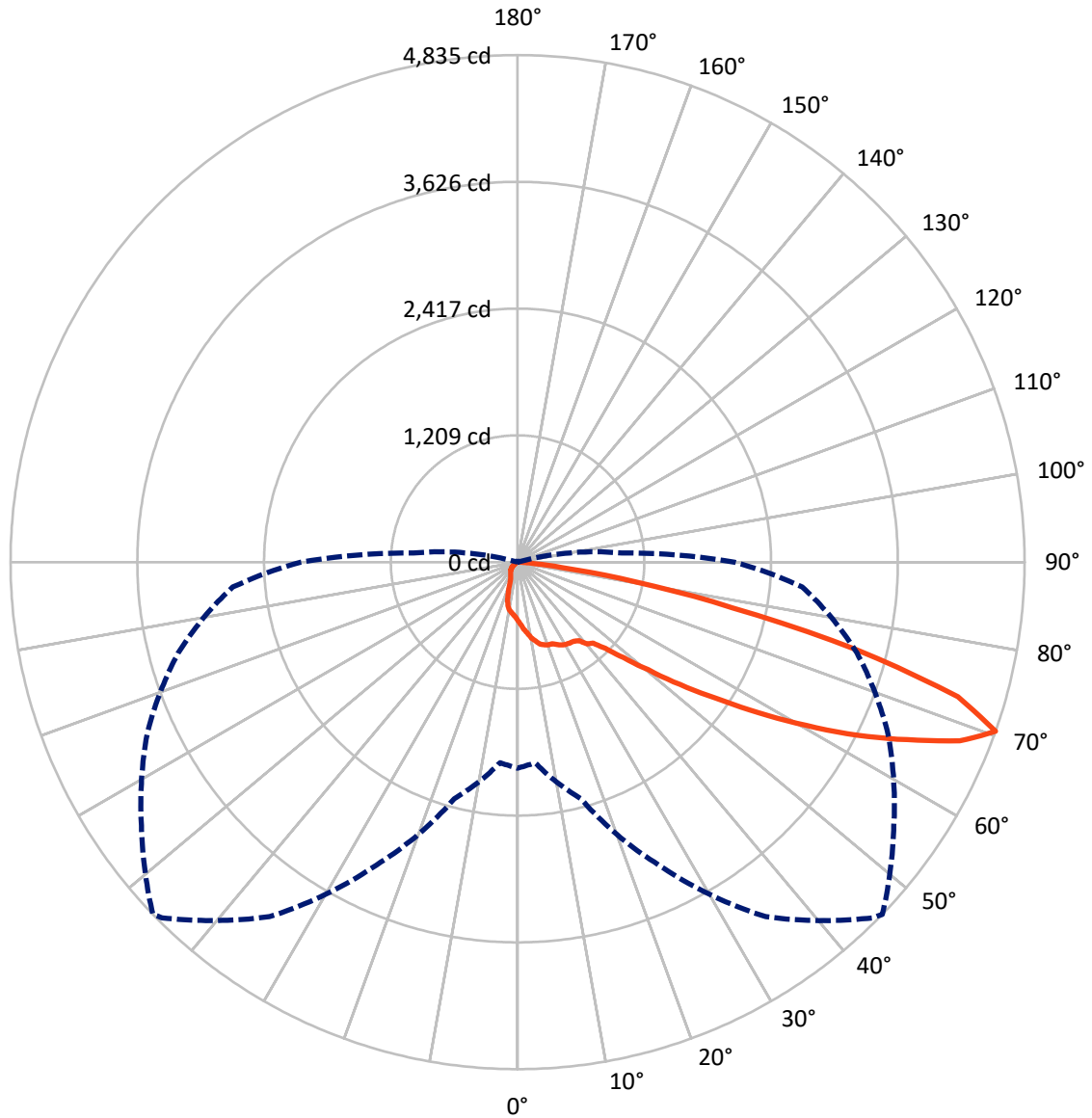
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P483494
CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483494
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W-HSS

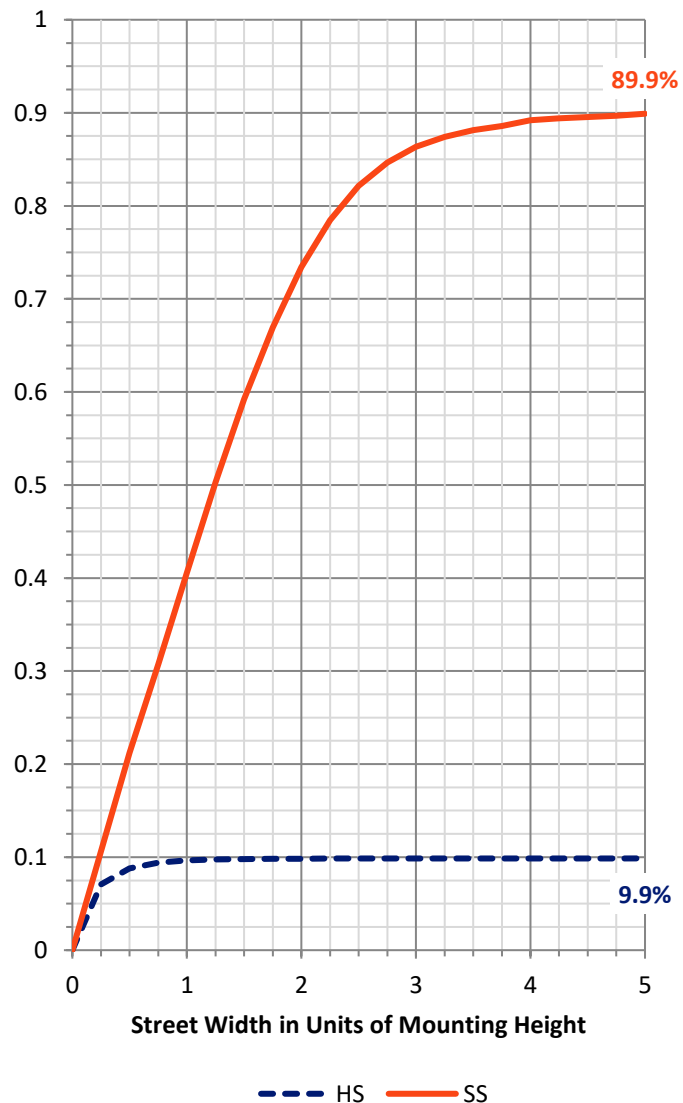
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	566.8	0.0	566.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	5129.9	0.0	5129.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	5696.7	0.0	5696.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.0
10°-20°	168.4	3.0
20°-30°	269.7	4.7
30°-40°	385.0	6.8
40°-50°	664.8	11.7
50°-60°	1272.9	22.3
60°-70°	1884.9	33.1
70°-80°	933.6	16.4
80°-90°	61.7	1.1
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°	5696.7	100.0
0°-180°	5696.7	100.0

Coefficient of Utilization



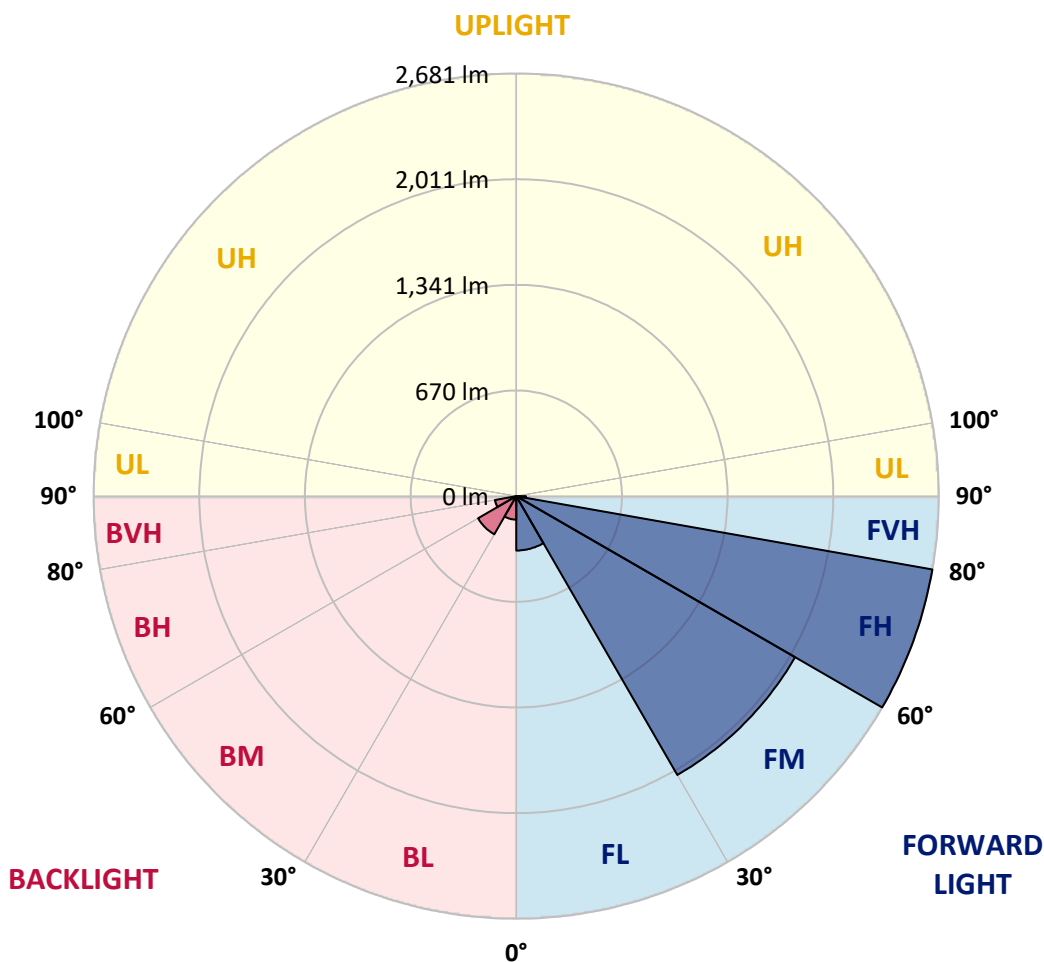
REPORT NUMBER: P483494
 CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.0	6.1			
FM (30°-60°)	2042.8	35.9			
FH (60°-80°)	2681.2	47.1			G2/5000
FVH (80°-90°)	60.9	1.1			G1/100
BL (0°-30°)	148.9	2.6	B1/500		
BM (30°-60°)	279.9	4.9	B1/1000		
BH (60°-80°)	137.3	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	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 IV Short





REPORT NUMBER: P483494

CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	624.0	619.9	613.4	610.9	604.3	601.1	596.1	593.7	584.7	575.6	569.9
5°	700.3	690.4	693.7	683.9	662.6	645.3	644.5	625.7	605.2	588.8	566.6
7.5°	777.4	769.2	756.9	742.9	719.1	693.7	686.3	668.3	639.6	610.9	581.4
10°	835.6	829.8	819.2	799.5	766.7	738.0	738.8	708.5	678.1	645.3	605.2
12.5°	871.7	874.1	858.5	838.9	810.2	774.1	773.3	752.8	718.3	683.9	636.3
15°	907.7	916.8	893.0	870.0	833.1	806.9	811.8	787.2	753.6	714.2	661.7
17.5°	913.5	915.9	911.0	877.4	850.3	828.2	829.0	812.6	787.2	744.6	699.5
20°	903.6	902.0	896.3	871.7	853.6	840.5	841.3	837.2	823.3	788.8	727.3
22.5°	874.9	874.9	867.6	851.2	843.0	855.3	845.4	861.0	846.2	825.7	774.9
25°	852.0	861.0	856.9	846.2	849.5	865.9	870.8	885.6	883.1	857.7	807.7
27.5°	876.6	865.9	868.4	856.1	868.4	893.0	895.4	906.1	905.3	884.8	837.2
30°	893.0	902.8	884.0	856.9	870.0	911.8	910.2	924.1	930.7	906.1	865.1
32.5°	945.5	937.3	921.7	885.6	887.2	911.0	918.4	936.4	940.5	925.8	892.2
35°	1052.9	1040.6	972.5	918.4	910.2	921.7	926.6	961.9	969.2	952.8	920.9
37.5°	1218.5	1190.6	1108.6	988.9	952.0	949.6	949.6	996.3	1024.2	986.5	963.5
40°	1455.5	1416.2	1327.6	1119.3	1007.0	1016.8	1026.6	1052.1	1048.8	1024.2	1019.3
42.5°	1757.3	1726.9	1631.0	1338.3	1111.9	1062.7	1054.5	1089.0	1140.6	1130.8	1127.5
45°	2009.0	2010.7	1949.2	1638.4	1293.2	1168.5	1174.2	1200.5	1287.4	1280.0	1279.2
47.5°	2192.7	2169.7	2160.7	1927.8	1557.2	1369.4	1361.2	1379.3	1492.4	1539.2	1560.5
50°	2360.0	2344.4	2323.1	2209.1	1874.5	1621.2	1613.0	1614.6	1787.6	1853.2	1905.7
52.5°	2567.4	2587.1	2516.6	2446.9	2285.4	1948.3	1939.3	1907.3	2122.2	2212.4	2274.7
55°	2823.3	2786.4	2706.8	2742.9	2678.1	2301.8	2285.4	2247.6	2503.5	2541.2	2606.8
57.5°	2879.9	2852.0	2934.0	3061.9	3124.2	2716.7	2710.1	2642.1	2824.1	2789.7	2975.0
60°	3020.9	3028.3	3142.3	3396.5	3504.7	3195.6	3163.6	3043.9	3134.9	3141.4	3339.1
62.5°	3166.0	3148.8	3403.8	3648.2	3814.7	3649.0	3638.4	3400.6	3503.9	3420.2	3681.8
65°	3059.4	3085.7	3450.6	3859.8	4216.5	4092.7	4083.6	3744.1	3800.7	3696.6	3821.2
67.5°	2680.6	2627.3	3138.2	3763.0	4423.1	4557.6	4547.8	4118.9	3968.0	3694.9	3531.8
70°	1964.7	1918.8	2335.4	3186.5	4127.1	4795.4	4834.8	4379.7	3900.0	3350.5	2724.9
72.5°	962.7	963.5	1308.7	2160.7	3265.3	4370.6	4390.3	4015.6	3350.5	2469.9	1543.3
75°	284.5	287.8	484.6	1059.4	2110.7	3319.4	3341.5	3048.0	2322.3	1275.9	526.4
77.5°	104.1	104.1	160.7	397.7	1052.9	2095.1	2093.5	1871.3	1175.9	432.1	123.0
80°	54.1	56.6	83.6	162.4	455.9	1091.4	1132.4	915.9	446.9	182.0	36.1
82.5°	22.1	24.6	45.9	83.6	218.9	382.9	419.0	359.2	194.3	127.1	16.4
85°	6.6	7.4	22.1	46.7	86.1	95.9	106.6	120.5	122.2	98.4	7.4
87.5°	0.8	0.8	9.0	15.6	18.9	20.5	23.8	23.8	62.3	68.9	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483494

CATALOG NUMBER: IFLD-S-SA2A-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	563.3	559.2	552.7	537.9	534.6	524.0	523.2	513.3	516.6	510.0	507.6
5°	559.2	550.2	532.2	520.7	509.2	501.8	496.9	492.8	492.0	488.7	487.1
7.5°	566.6	554.3	526.4	508.4	488.7	482.2	471.5	470.7	464.9	459.2	459.2
10°	591.2	569.1	538.7	508.4	483.0	461.7	437.1	419.0	412.5	397.7	399.3
12.5°	610.9	591.2	546.9	515.8	477.2	428.9	374.7	332.9	313.2	294.4	301.8
15°	638.8	610.1	562.5	517.4	455.1	371.5	282.9	236.2	218.1	214.0	213.2
17.5°	669.1	638.8	582.2	513.3	410.0	287.0	208.3	181.2	184.5	189.4	188.6
20°	702.7	665.8	597.0	499.4	338.7	208.3	170.6	169.7	174.7	182.0	183.7
22.5°	738.0	706.0	615.0	457.6	252.6	167.3	164.0	164.0	167.3	176.3	174.7
25°	777.4	734.7	624.0	392.8	181.2	154.2	155.8	159.1	160.7	168.1	168.9
27.5°	807.7	766.7	626.5	314.9	147.6	142.7	146.8	150.9	153.3	159.1	161.5
30°	835.6	806.9	613.4	234.5	135.3	132.8	134.5	140.2	145.1	150.1	150.1
32.5°	870.8	829.8	583.0	166.5	127.9	123.8	123.0	125.5	131.2	136.9	136.9
35°	906.9	868.4	534.6	133.7	121.4	115.6	112.3	109.9	112.3	116.4	119.7
37.5°	959.4	926.6	474.0	123.0	116.4	108.2	101.7	95.9	91.8	91.0	93.5
40°	1034.0	992.2	396.1	115.6	110.7	100.9	91.0	81.2	72.2	66.4	67.2
42.5°	1147.2	1089.0	311.6	111.5	106.6	92.7	78.7	64.8	53.3	47.6	47.6
45°	1308.7	1216.9	228.8	107.4	101.7	82.8	64.8	48.4	36.9	33.6	34.4
47.5°	1552.3	1371.1	164.0	100.9	95.1	72.2	50.8	34.4	27.1	25.4	26.2
50°	1870.4	1553.9	127.9	93.5	86.9	60.7	37.7	25.4	21.3	20.5	21.3
52.5°	2204.2	1738.4	112.3	86.9	74.6	48.4	27.9	20.5	18.0	17.2	18.0
55°	2489.5	1857.3	97.6	77.1	59.9	36.1	22.1	18.0	15.6	13.1	13.1
57.5°	2778.2	1917.2	77.1	64.0	44.3	27.1	18.9	15.6	13.1	10.7	9.8
60°	3012.7	1959.8	54.9	47.6	31.2	21.3	16.4	13.9	10.7	8.2	7.4
62.5°	3166.9	1837.6	40.2	36.1	23.0	18.0	13.9	11.5	8.2	5.7	5.7
65°	3090.6	1668.7	31.2	25.4	17.2	13.9	11.5	8.2	5.7	3.3	2.5
67.5°	2773.3	1359.6	25.4	18.9	13.1	10.7	9.0	6.6	3.3	0.8	0.8
70°	2068.9	996.3	20.5	13.9	10.7	8.2	6.6	4.1	1.6	0.8	0.0
72.5°	1131.6	545.3	16.4	11.5	8.2	6.6	4.9	3.3	1.6	0.0	0.0
75°	373.9	145.1	12.3	8.2	4.9	4.1	3.3	2.5	0.8	0.0	0.0
77.5°	90.2	37.7	9.8	7.4	4.1	2.5	1.6	0.8	0.8	0.0	0.0
80°	27.9	15.6	7.4	4.9	3.3	2.5	0.8	0.0	0.0	0.0	0.0
82.5°	11.5	7.4	3.3	3.3	2.5	0.8	0.0	0.0	0.0	0.0	0.0
85°	5.7	4.1	2.5	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	1.6	0.8	0.8	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)