

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: P483146

Luminaire Tested: **IFLD-S-SA2D-730-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483146
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

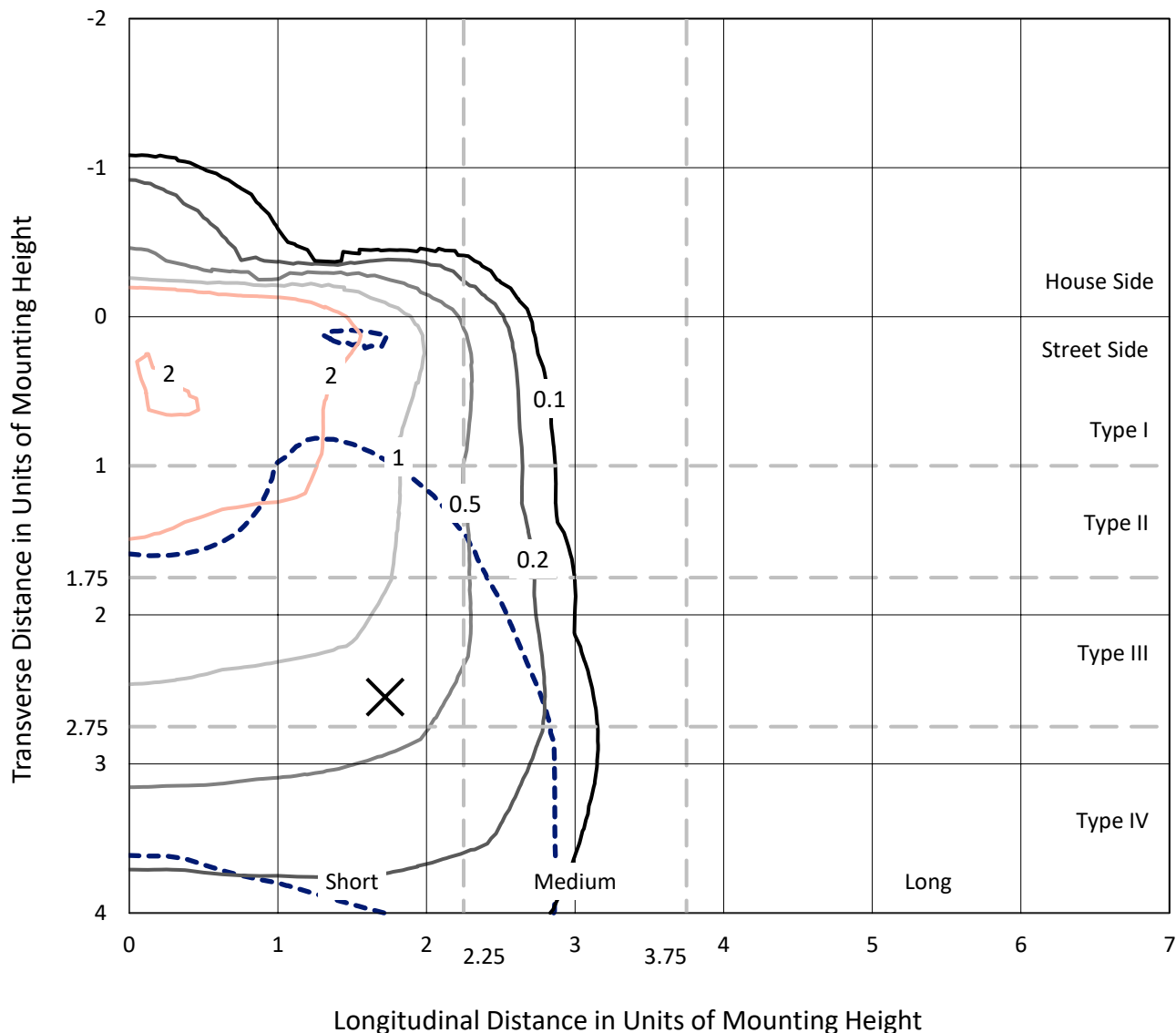
Lumens per Lamp: N/A
Luminaire Lumens: 10297.7 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

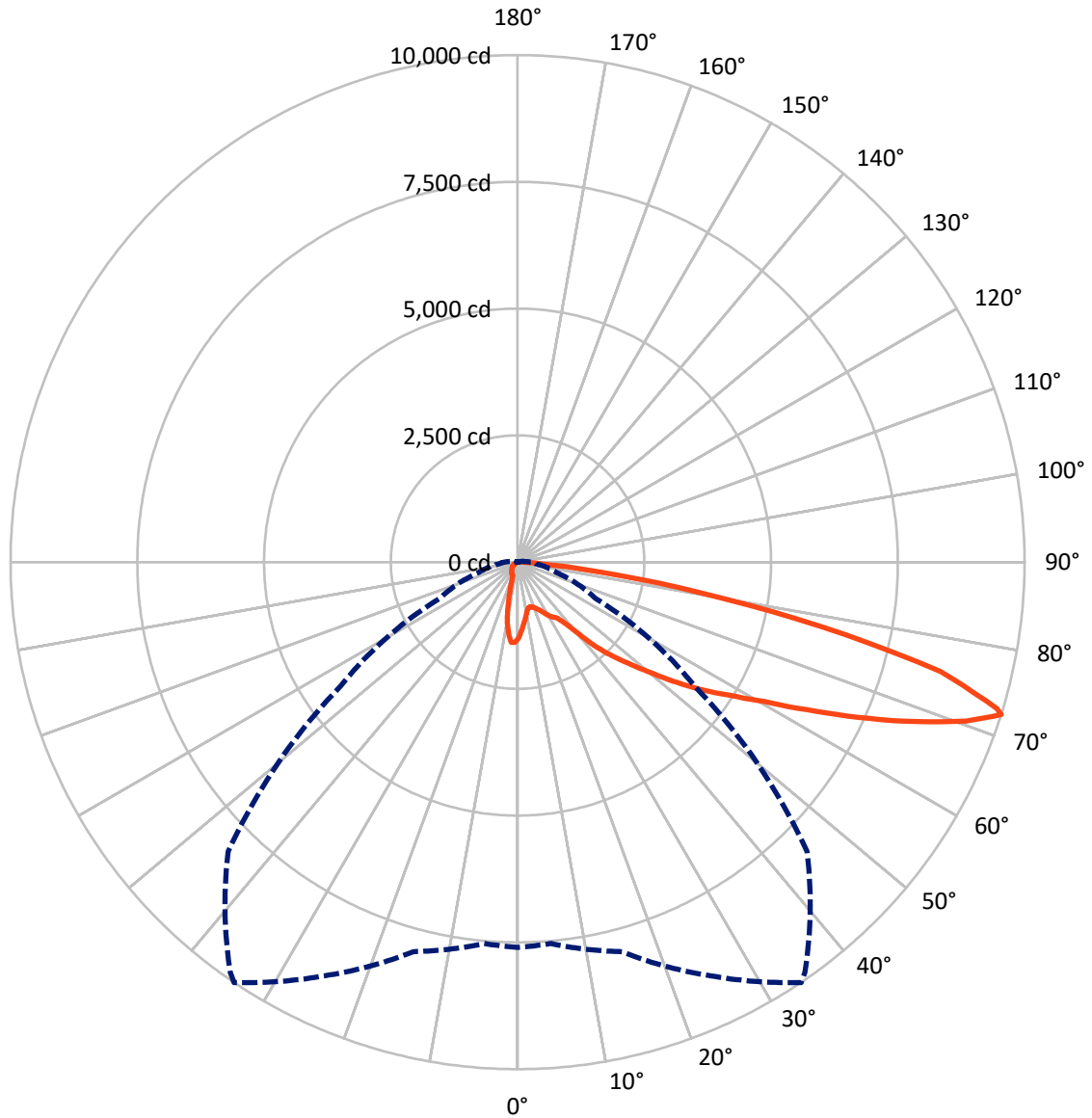
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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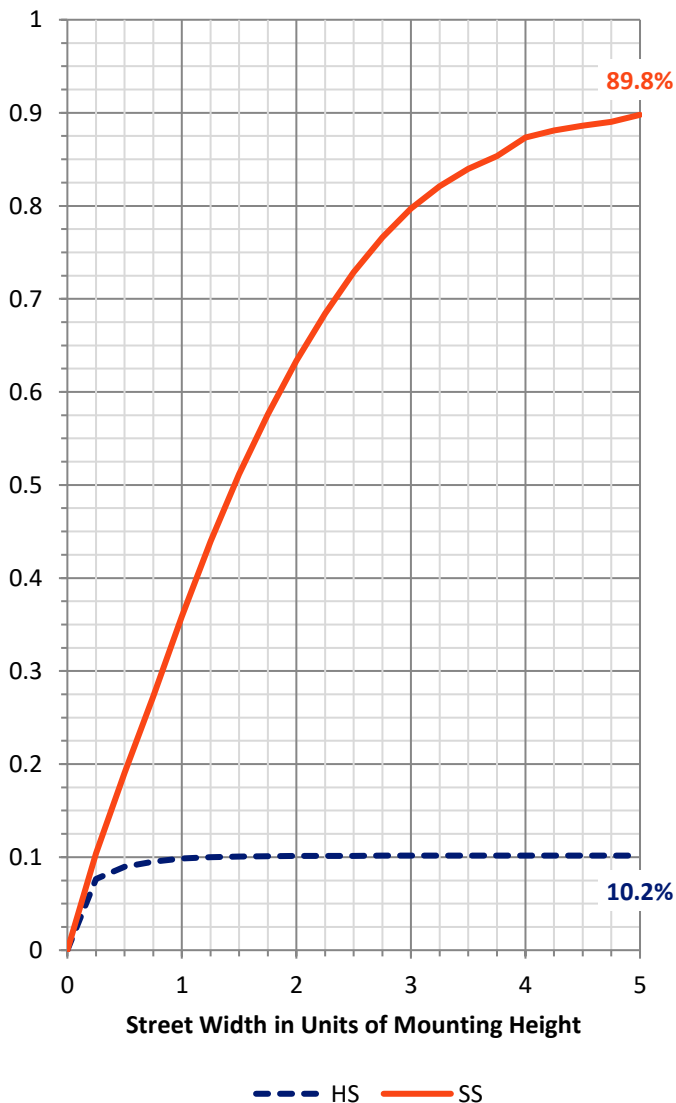
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1054.2	0.0	1054.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	9243.5	0.0	9243.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	10297.7	0.0	10297.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	1.3
10°-20°	296.1	2.9
20°-30°	446.9	4.3
30°-40°	725.3	7.0
40°-50°	1363.8	13.2
50°-60°	2229.9	21.7
60°-70°	2964.3	28.8
70°-80°	1985.2	19.3
80°-90°	155.6	1.5
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°	10297.7	100.0
0°-180°	10297.7	100.0

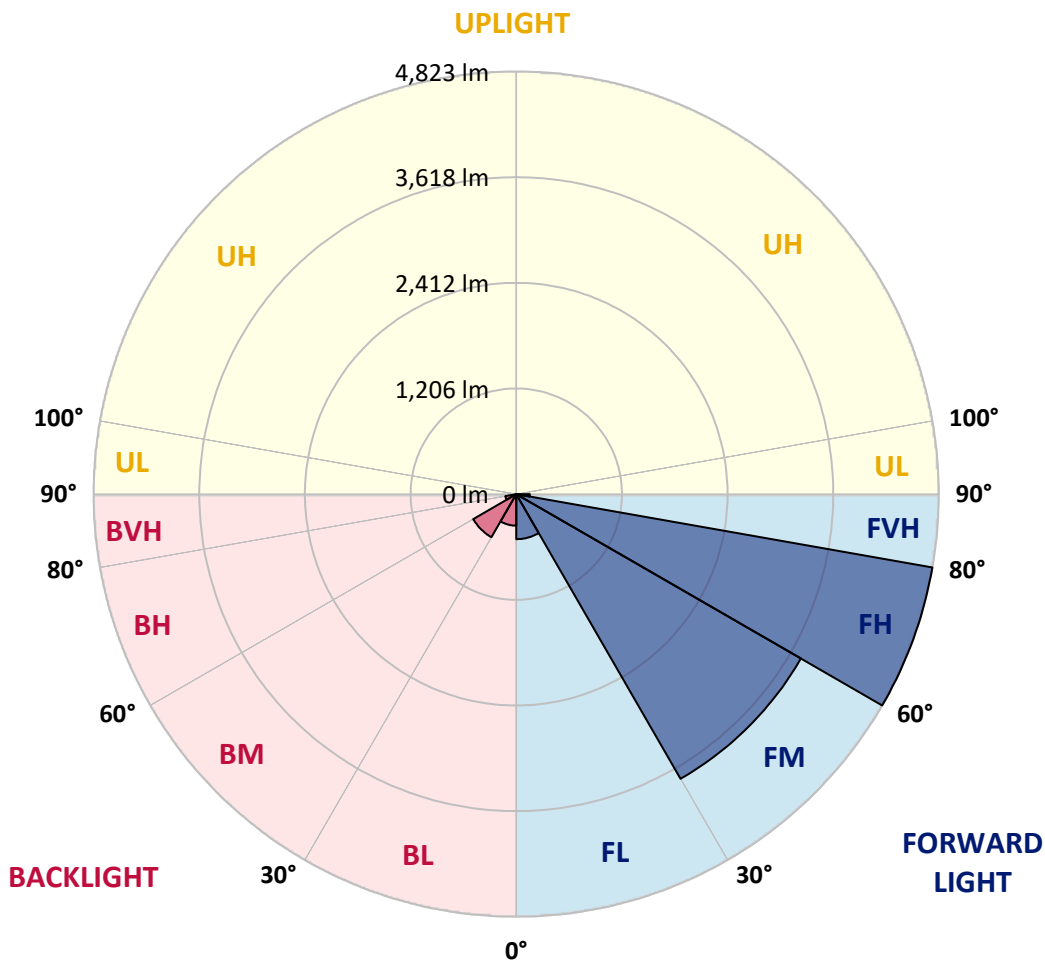


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.1	5.0			
FM (30°-60°)	3751.4	36.4			
FH (60°-80°)	4823.4	46.8			G2/5000
FVH (80°-90°)	154.6	1.5			G2/225
BL (0°-30°)	359.7	3.5	B1/500		
BM (30°-60°)	567.5	5.5	B1/1000		
BH (60°-80°)	126.1	1.2	B1/500		G1/500
BVH (80°-90°)	1.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1332.4	1329.4	1338.3	1353.2	1368.1	1362.2	1390.4	1420.2	1441.1	1469.4	1503.6
5°	1164.2	1171.6	1180.5	1210.3	1229.7	1234.1	1286.2	1324.9	1389.0	1454.5	1515.5
7.5°	1010.8	1019.8	1037.6	1070.4	1110.6	1121.0	1173.1	1250.5	1333.9	1420.2	1520.0
10°	899.2	908.1	927.5	948.3	1001.9	1001.9	1073.4	1180.5	1289.2	1390.4	1521.5
12.5°	875.4	879.8	878.3	894.7	929.0	936.4	1006.4	1124.0	1250.5	1380.0	1545.3
15°	903.6	906.6	891.7	882.8	912.6	920.0	985.5	1089.7	1225.2	1386.0	1584.0
17.5°	960.2	949.8	920.0	906.6	931.9	936.4	997.4	1088.2	1222.2	1402.4	1628.6
20°	993.0	1004.9	952.8	927.5	963.2	969.1	1034.6	1112.1	1237.1	1430.6	1691.2
22.5°	1051.0	1057.0	987.0	970.6	1004.9	1004.9	1079.3	1159.7	1272.8	1476.8	1765.6
25°	1132.9	1125.5	1043.6	1027.2	1060.0	1073.4	1147.8	1235.6	1327.9	1520.0	1834.1
27.5°	1196.9	1201.4	1134.4	1091.2	1146.3	1155.2	1235.6	1317.5	1369.6	1555.7	1917.5
30°	1292.2	1283.3	1211.8	1162.7	1231.2	1232.6	1310.1	1394.9	1450.0	1619.7	2042.5
32.5°	1405.3	1387.5	1305.6	1235.6	1290.7	1304.1	1383.0	1506.6	1575.0	1740.3	2236.0
35°	1645.0	1601.8	1467.9	1359.2	1363.7	1369.6	1491.7	1668.8	1747.7	1893.6	2495.1
37.5°	1994.9	1977.0	1825.2	1618.2	1539.3	1521.5	1658.4	1883.2	1981.5	2096.1	2831.5
40°	2341.7	2316.4	2175.0	2018.7	1875.8	1840.0	1908.5	2167.6	2256.9	2377.5	3176.9
42.5°	2727.3	2682.6	2515.9	2389.4	2300.0	2261.3	2234.5	2524.8	2626.1	2708.0	3514.8
45°	3117.3	3044.4	2803.2	2706.5	2658.8	2638.0	2635.0	2974.4	3035.5	3051.8	3890.0
47.5°	3459.7	3380.8	3162.0	3053.3	3017.6	3011.6	3178.4	3492.5	3444.9	3401.7	4308.3
50°	3723.2	3672.6	3514.8	3476.1	3449.3	3438.9	3828.9	4025.5	3805.1	3729.2	4676.0
52.5°	4131.2	4018.0	3839.4	3852.8	3946.6	3948.0	4488.4	4531.6	4104.4	3954.0	5022.9
55°	4457.2	4382.7	4236.9	4217.5	4464.6	4491.4	5079.5	4915.7	4271.1	4168.4	5150.9
57.5°	4841.3	4807.0	4701.3	4704.3	4963.3	5019.9	5605.0	5240.2	4409.5	4306.8	5170.3
60°	5396.6	5298.3	5243.2	5268.5	5573.7	5628.8	6114.1	5474.0	4476.5	4397.6	5122.6
62.5°	6009.9	5895.3	5835.7	5965.2	6410.4	6419.3	6501.2	5680.9	4434.8	4421.4	4816.0
65°	6748.3	6635.2	6587.5	6848.0	7376.5	7343.8	7044.5	5768.7	4302.4	4181.8	4010.6
67.5°	7483.7	7415.2	7317.0	7732.3	8390.3	8390.3	7608.8	5736.0	3955.5	3357.0	2623.1
70°	7832.1	7879.7	8036.0	8688.1	9386.3	9314.8	8165.5	5359.3	2944.7	1802.8	1031.7
72°	7599.8	7550.7	7954.1	9000.7	9999.6	9882.0	8071.8	4260.7	1701.6	790.5	358.8
72.5°	7200.9	7247.0	7802.3	8957.5	9885.0	9981.8	7842.5	3930.2	1399.4	629.7	270.9
75°	4415.5	4494.4	5823.8	7605.8	8613.6	8505.0	6066.5	1872.8	537.4	268.0	96.8
77.5°	1612.3	1677.8	2825.6	4786.2	6126.0	6057.5	3510.4	665.5	291.8	199.5	49.1
80°	419.8	454.1	960.2	2207.7	3602.7	3607.1	1469.4	266.5	198.0	163.8	29.8
82.5°	83.4	92.3	294.8	859.0	1683.7	1661.4	464.5	142.9	148.9	134.0	20.8
85°	10.4	13.4	62.5	291.8	544.9	488.3	114.6	71.5	110.2	104.2	13.4
87.5°	1.5	1.5	14.9	67.0	114.6	111.7	23.8	22.3	49.1	64.0	7.4
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°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1522.9	1528.9	1549.7	1567.6	1588.4	1594.4	1585.5	1600.4	1579.5	1591.4	1594.4
5°	1525.9	1560.2	1598.9	1624.2	1618.2	1603.3	1591.4	1551.2	1522.9	1512.5	1534.9
7.5°	1546.8	1585.5	1627.2	1627.2	1594.4	1517.0	1442.6	1371.1	1311.5	1281.8	1307.1
10°	1573.6	1613.8	1656.9	1600.4	1478.3	1336.9	1231.2	1097.2	1006.4	958.7	963.2
12.5°	1609.3	1665.9	1680.7	1549.7	1347.3	1137.4	945.3	759.2	672.9	604.4	605.9
15°	1655.4	1710.5	1665.9	1439.6	1180.5	870.9	640.1	463.0	394.5	358.8	358.8
17.5°	1716.5	1758.2	1661.4	1338.3	955.7	595.5	393.0	312.6	297.7	291.8	291.8
20°	1787.9	1819.2	1618.2	1180.5	710.1	382.6	288.8	279.9	281.4	278.4	278.4
22.5°	1868.3	1878.7	1569.1	997.4	480.9	282.9	269.5	270.9	272.4	269.5	270.9
25°	1953.2	1924.9	1497.6	783.1	320.1	257.5	260.5	263.5	265.0	266.5	266.5
27.5°	2048.5	1991.9	1397.9	573.2	250.1	242.7	251.6	260.5	262.0	262.0	260.5
30°	2188.4	2094.6	1301.1	388.6	220.3	226.3	241.2	251.6	259.0	259.0	257.5
32.5°	2365.6	2201.8	1165.7	265.0	204.0	206.9	218.8	239.7	256.1	257.5	253.1
35°	2611.2	2331.3	1024.2	211.4	192.0	193.5	201.0	217.4	245.6	254.6	253.1
37.5°	2870.2	2478.7	848.6	190.6	183.1	181.6	186.1	199.5	224.8	247.1	248.6
40°	3145.6	2633.5	664.0	180.1	175.7	172.7	174.2	180.1	199.5	227.8	233.7
42.5°	3404.7	2773.5	498.7	169.7	168.2	165.2	165.2	166.7	177.2	196.5	199.5
45°	3684.5	2888.1	379.6	162.3	157.8	159.3	153.3	150.4	157.8	159.3	157.8
47.5°	3946.6	3002.7	303.7	153.3	148.9	148.9	141.4	135.5	135.5	122.1	120.6
50°	4192.2	3065.2	242.7	141.4	139.9	138.4	128.0	117.6	108.7	92.3	89.3
52.5°	4396.1	3062.3	187.6	126.5	131.0	126.5	110.2	95.3	81.9	67.0	64.0
55°	4457.2	2919.3	141.4	104.2	111.7	105.7	87.8	74.4	59.5	47.6	46.1
57.5°	4405.1	2702.0	107.2	80.4	86.3	80.4	67.0	55.1	41.7	32.8	29.8
60°	4230.9	2447.4	83.4	62.5	65.5	61.0	50.6	41.7	29.8	20.8	17.9
62.5°	3900.4	2128.8	64.0	49.1	47.6	47.6	38.7	31.3	20.8	11.9	10.4
65°	3200.7	1659.9	49.1	34.2	34.2	34.2	29.8	22.3	13.4	6.0	3.0
67.5°	2009.7	966.2	40.2	26.8	25.3	25.3	20.8	14.9	7.4	1.5	0.0
70°	756.3	354.3	31.3	20.8	19.4	19.4	14.9	8.9	4.5	0.0	0.0
72°	260.5	135.5	25.3	14.9	14.9	13.4	10.4	7.4	3.0	0.0	0.0
72.5°	214.4	108.7	23.8	14.9	13.4	13.4	10.4	7.4	3.0	0.0	0.0
75°	77.4	44.7	16.4	10.4	8.9	8.9	7.4	4.5	1.5	0.0	0.0
77.5°	38.7	28.3	13.4	8.9	7.4	4.5	4.5	3.0	1.5	0.0	0.0
80°	23.8	17.9	7.4	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	16.4	10.4	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	3.0	1.5	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)