

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: P482755

Luminaire Tested: **IFLD-S-SA2C-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482755
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

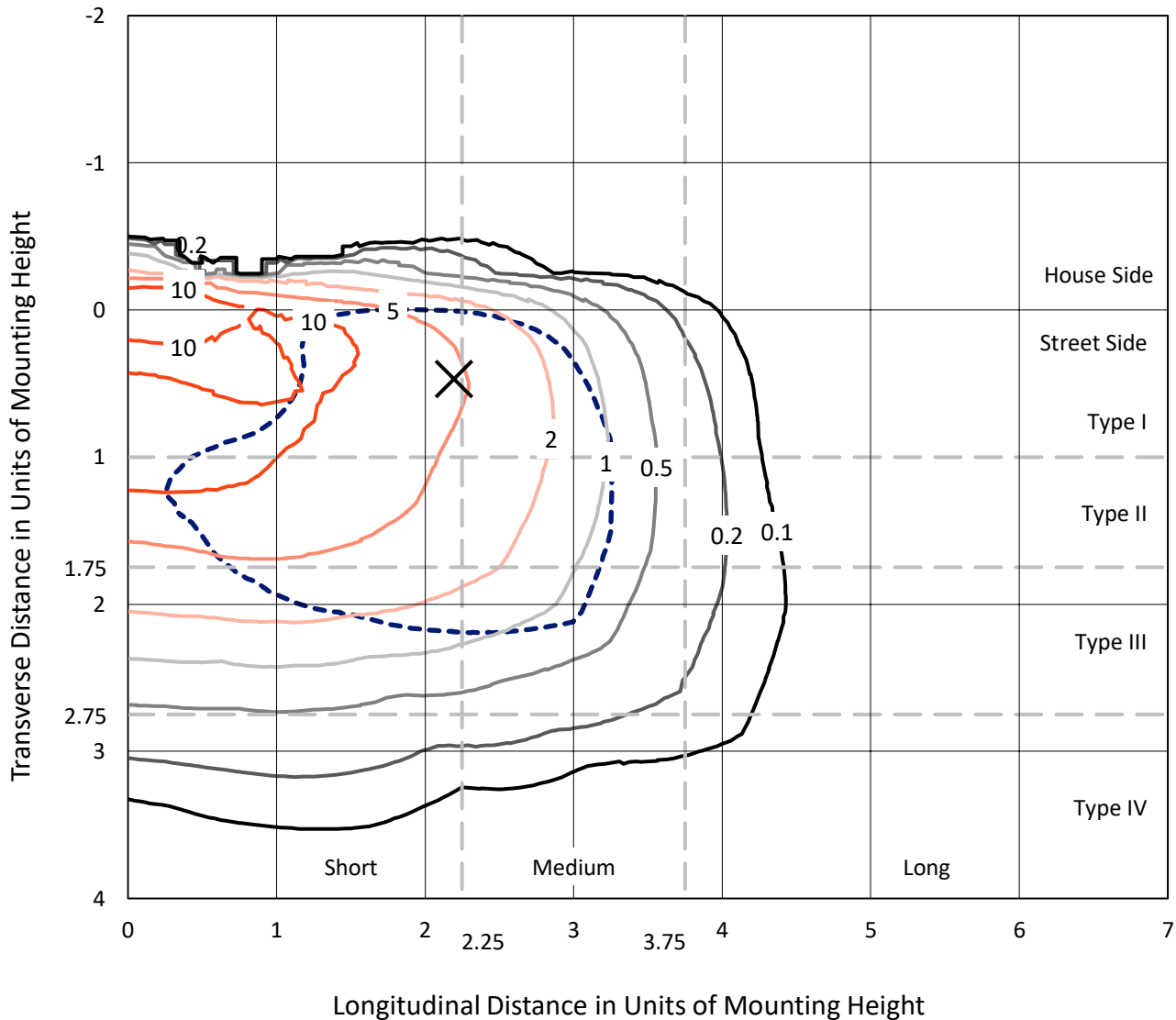
Lumens per Lamp: N/A
Luminaire Lumens: 9277.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

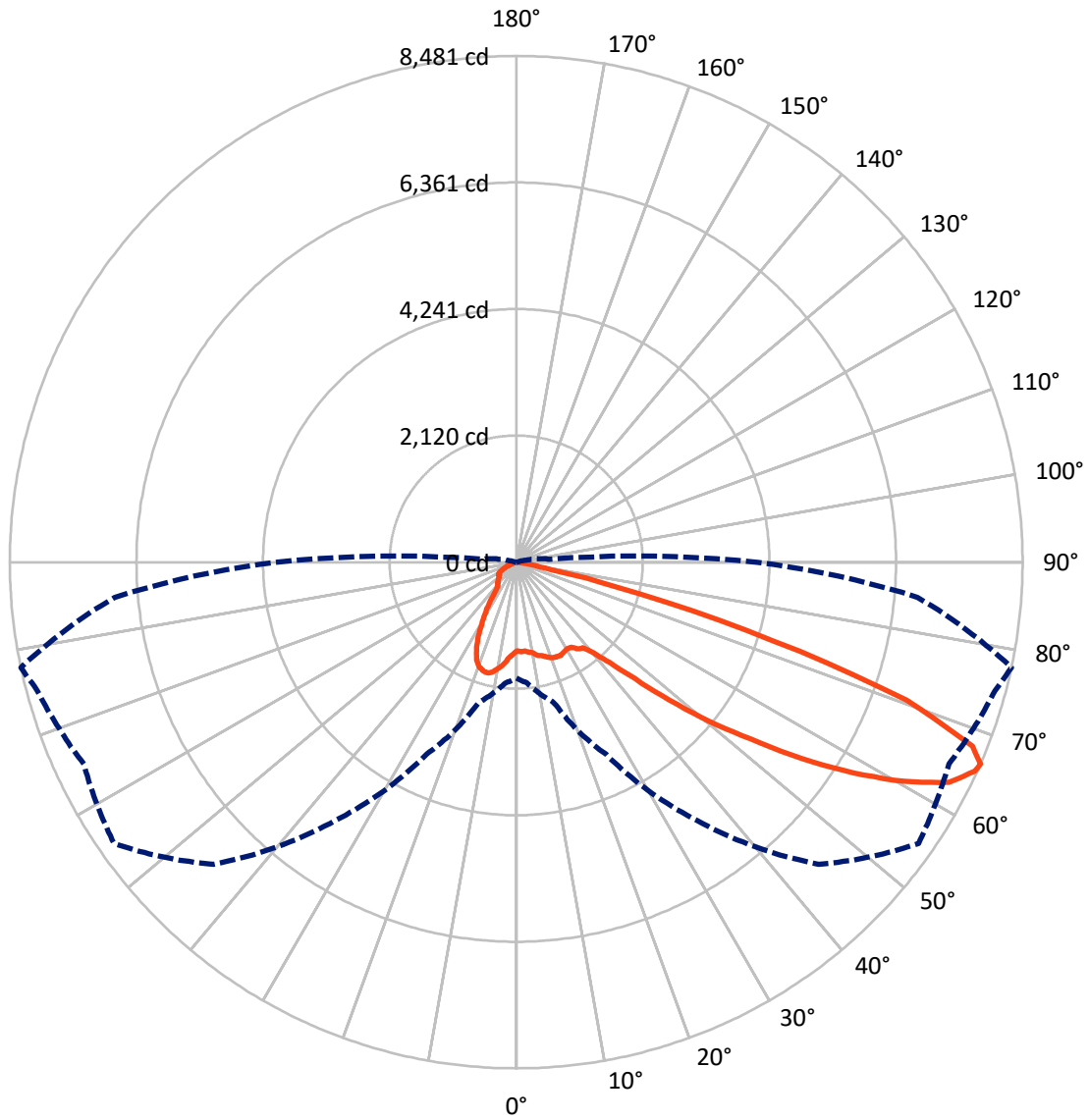
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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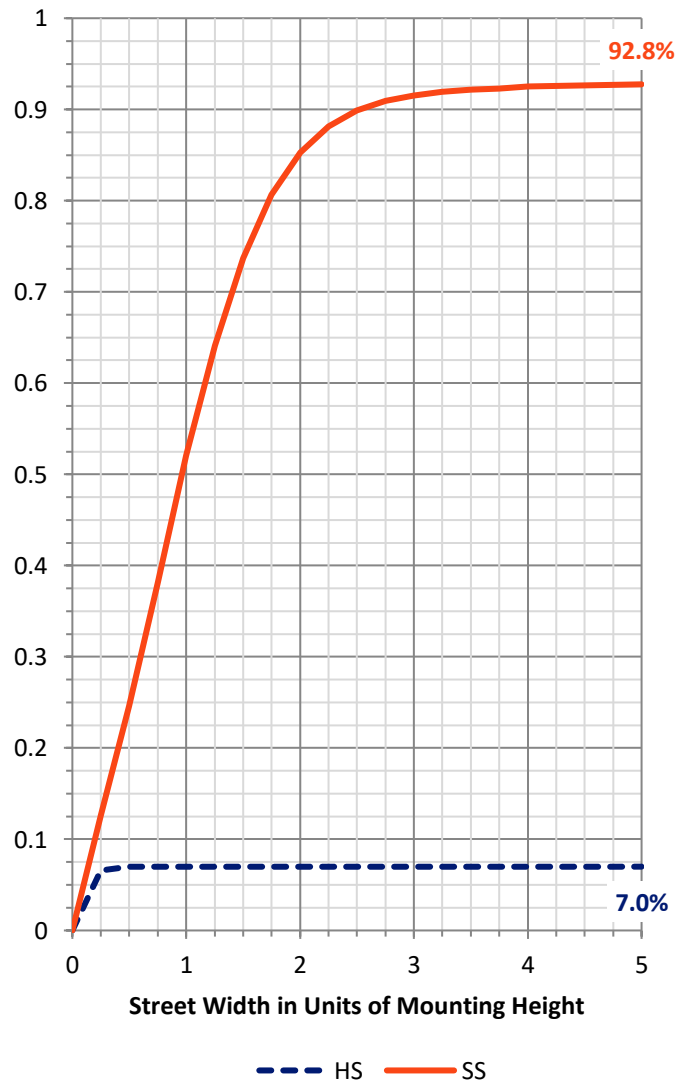
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.3	0.0	652.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	8625.3	0.0	8625.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	9277.6	0.0	9277.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.5
10°-20°	306.9	3.3
20°-30°	438.6	4.7
30°-40°	750.8	8.1
40°-50°	1355.1	14.6
50°-60°	2317.4	25.0
60°-70°	2852.3	30.7
70°-80°	1078.3	11.6
80°-90°	42.1	0.5
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°	9277.6	100.0
0°-180°	9277.6	100.0

Coefficient of Utilization

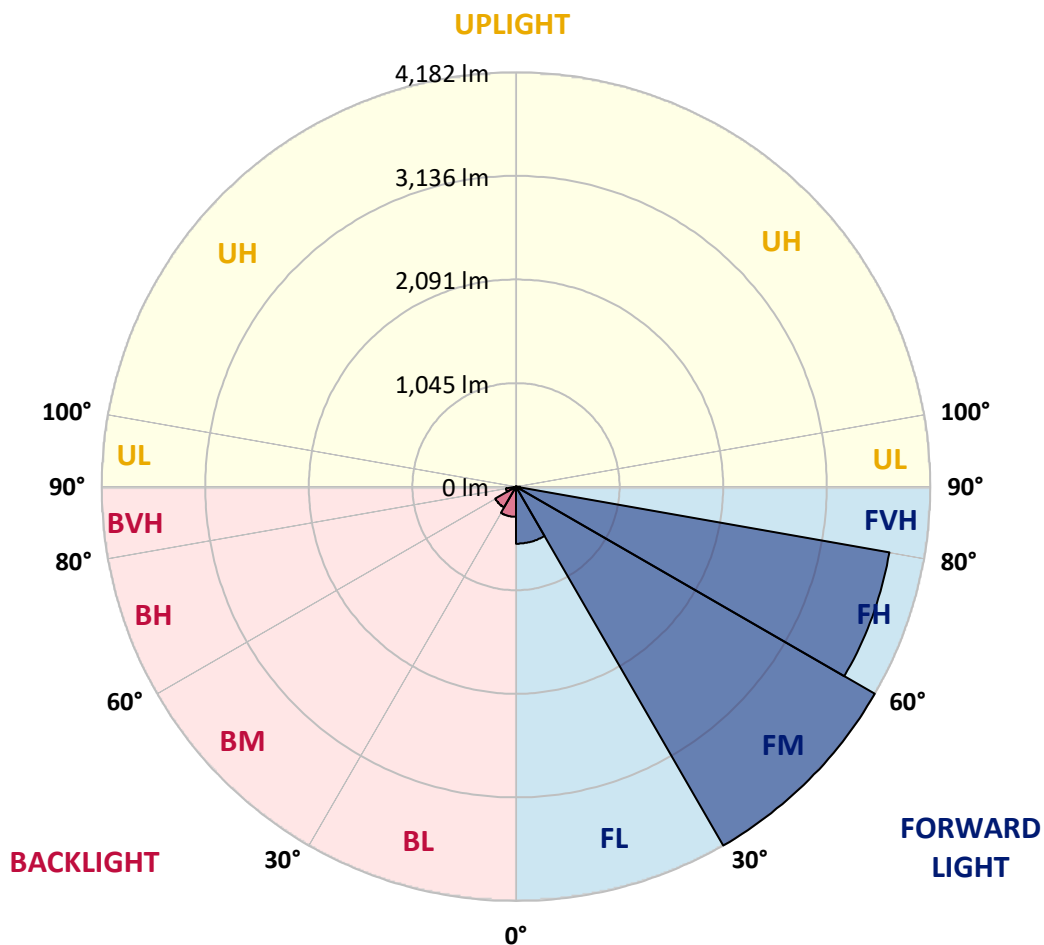


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.0	6.2			
FM (30°-60°)	4181.6	45.1			
FH (60°-80°)	3827.3	41.3			G2/5000
FVH (80°-90°)	40.4	0.4			G1/100
BL (0°-30°)	305.5	3.3	B1/500		
BM (30°-60°)	241.7	2.6	B1/1000		
BH (60°-80°)	103.3	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
2.5°	1366.8	1354.2	1366.8	1385.0	1394.8	1403.3	1432.7	1457.9	1484.6	1502.8	1497.2
5°	1267.3	1291.1	1293.9	1299.5	1314.9	1365.4	1382.2	1425.7	1491.6	1497.2	1522.4
7.5°	1188.8	1181.8	1200.0	1236.4	1275.7	1305.1	1354.2	1429.9	1498.6	1522.4	1571.5
10°	1075.2	1089.2	1108.9	1145.3	1193.0	1265.9	1352.8	1436.9	1535.0	1543.4	1634.6
12.5°	1013.5	999.5	1030.4	1068.2	1149.5	1216.8	1323.4	1424.3	1557.5	1603.7	1708.9
15°	963.1	970.1	999.5	1024.8	1092.0	1177.6	1302.3	1455.1	1595.3	1627.6	1787.4
17.5°	942.0	937.8	960.3	985.5	1068.2	1164.9	1293.9	1456.5	1629.0	1671.0	1840.6
20°	951.9	960.3	953.3	977.1	1029.0	1127.1	1306.5	1483.2	1654.2	1711.7	1898.1
22.5°	1106.1	1094.9	1038.8	993.9	996.7	1111.7	1296.7	1500.0	1676.6	1722.9	1937.4
25°	1508.4	1448.1	1309.3	1136.9	1023.4	1069.6	1285.5	1494.4	1672.4	1729.9	1961.2
27.5°	1913.5	1861.7	1725.7	1457.9	1131.3	1052.8	1246.3	1498.6	1651.4	1704.7	1921.9
30°	2341.1	2369.1	2167.3	1849.1	1414.5	1145.3	1221.0	1476.2	1637.4	1682.2	1930.4
32.5°	2779.9	2768.7	2646.7	2301.9	1819.6	1350.0	1261.7	1498.6	1655.6	1699.1	1979.4
35°	3123.3	3084.1	2960.7	2649.5	2154.7	1658.4	1401.9	1605.1	1735.5	1787.4	2049.5
37.5°	3293.0	3309.8	3238.3	2967.7	2521.9	1944.4	1577.1	1605.1	1760.7	1821.0	2163.1
40°	3424.7	3475.2	3448.6	3361.7	2886.4	2266.8	1770.5	1704.7	1888.3	2001.9	2376.1
42.5°	3583.1	3559.3	3716.3	3636.4	3363.1	2673.3	2109.8	1941.6	2189.7	2299.0	2695.8
45°	3667.3	3758.4	3877.5	3979.9	3804.6	3180.8	2552.8	2360.7	2650.9	2789.7	3171.0
47.5°	3883.1	3919.6	4113.1	4242.0	4163.5	3761.2	3225.7	2973.3	3231.3	3450.0	3714.9
50°	4009.3	3960.2	4230.8	4427.1	4471.9	4242.0	3828.5	3632.2	3921.0	4200.0	4223.8
52.5°	3898.6	4038.8	4309.3	4661.2	4785.9	4671.0	4536.4	4450.9	4654.2	4912.1	4797.2
55°	3510.3	3605.6	4264.5	4917.7	5320.1	5266.8	5391.5	5335.5	5540.1	5813.5	5467.2
57.5°	3197.6	3316.8	3895.8	5050.9	5817.7	5974.7	6131.7	6096.7	6343.4	6658.8	6035.0
60°	3002.8	3071.5	3629.4	5017.2	6112.1	6706.5	7061.2	6814.4	7216.8	7457.9	6479.4
62.5°	2664.9	2708.4	3241.1	4571.5	6200.4	7223.8	7825.2	7490.1	7839.2	8133.6	6799.0
65°	2136.4	2254.2	2694.4	3904.2	5617.2	7319.1	8301.8	7907.9	8245.7	8439.2	6895.7
66°	1944.4	2029.9	2433.6	3550.9	5285.0	7160.7	8221.9	7994.8	8304.6	8481.2	6747.1
67.5°	1613.5	1687.8	2008.9	3047.6	4605.1	6811.6	8278.0	7935.9	8349.5	8241.5	6548.1
70°	1068.2	1115.9	1373.8	2060.7	3207.5	5572.4	7678.0	7476.1	7340.1	6935.0	5119.6
72.5°	499.1	567.8	857.9	1249.1	1881.3	3898.6	6260.7	5990.1	5147.6	4500.0	3229.9
75°	225.7	256.5	471.0	716.3	843.9	2020.1	4038.8	3647.6	2562.6	2128.0	1414.5
77.5°	122.0	138.8	229.9	340.7	307.0	707.9	1999.0	1662.6	807.5	591.6	410.7
80°	93.9	110.7	192.1	194.9	113.6	183.6	743.0	514.5	201.9	152.8	98.1
82.5°	49.1	70.1	151.4	126.2	57.5	74.3	229.9	143.0	63.1	50.5	42.1
85°	19.6	30.8	85.5	84.1	33.6	25.2	64.5	43.5	25.2	21.0	19.6
87.5°	1.4	1.4	46.3	32.2	21.0	7.0	9.8	9.8	12.6	11.2	14.0
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°	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0	1486.0
2.5°	1522.4	1539.2	1542.0	1588.3	1598.1	1588.3	1613.5	1609.3	1620.5	1612.1	1596.7
5°	1557.5	1581.3	1627.6	1662.6	1662.6	1634.6	1612.1	1582.7	1539.2	1528.0	1519.6
7.5°	1617.7	1693.4	1735.5	1713.1	1668.2	1563.1	1417.3	1310.7	1221.0	1187.4	1172.0
10°	1724.3	1766.3	1815.4	1724.3	1537.8	1314.9	1069.6	908.4	782.2	754.2	733.2
12.5°	1793.0	1860.3	1888.3	1662.6	1296.7	964.5	698.1	515.9	427.6	360.3	349.1
15°	1882.7	1959.8	1902.3	1495.8	1022.0	632.2	361.7	225.7	183.6	172.4	172.4
17.5°	1944.4	2028.5	1844.8	1288.3	724.8	336.4	179.4	155.6	152.8	154.2	151.4
20°	2052.3	2102.8	1757.9	1047.2	433.2	172.4	144.4	138.8	136.0	140.2	137.4
22.5°	2093.0	2139.2	1616.3	758.4	194.9	115.0	107.9	103.7	106.5	105.1	103.7
25°	2090.2	2114.0	1383.6	434.6	57.5	44.9	40.7	40.7	37.9	39.3	37.9
27.5°	2111.2	2052.3	1122.9	129.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2122.4	1952.8	799.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2128.0	1900.9	514.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2171.5	1797.2	220.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2200.9	1664.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2322.9	1621.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2481.3	1543.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2701.4	1427.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2993.0	1358.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3210.3	1250.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3486.4	1186.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3814.5	1188.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4113.1	1169.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4265.9	999.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4233.6	808.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4121.5	635.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4044.4	562.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3810.2	450.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3032.2	308.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1929.0	189.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	888.8	86.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	279.0	53.3	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	72.9	33.6	11.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.9	23.8	9.8	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	9.8	4.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	5.6	2.8	2.8	1.4	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)