

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: P480727

Luminaire Tested: **IFLD-S-SA2C-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

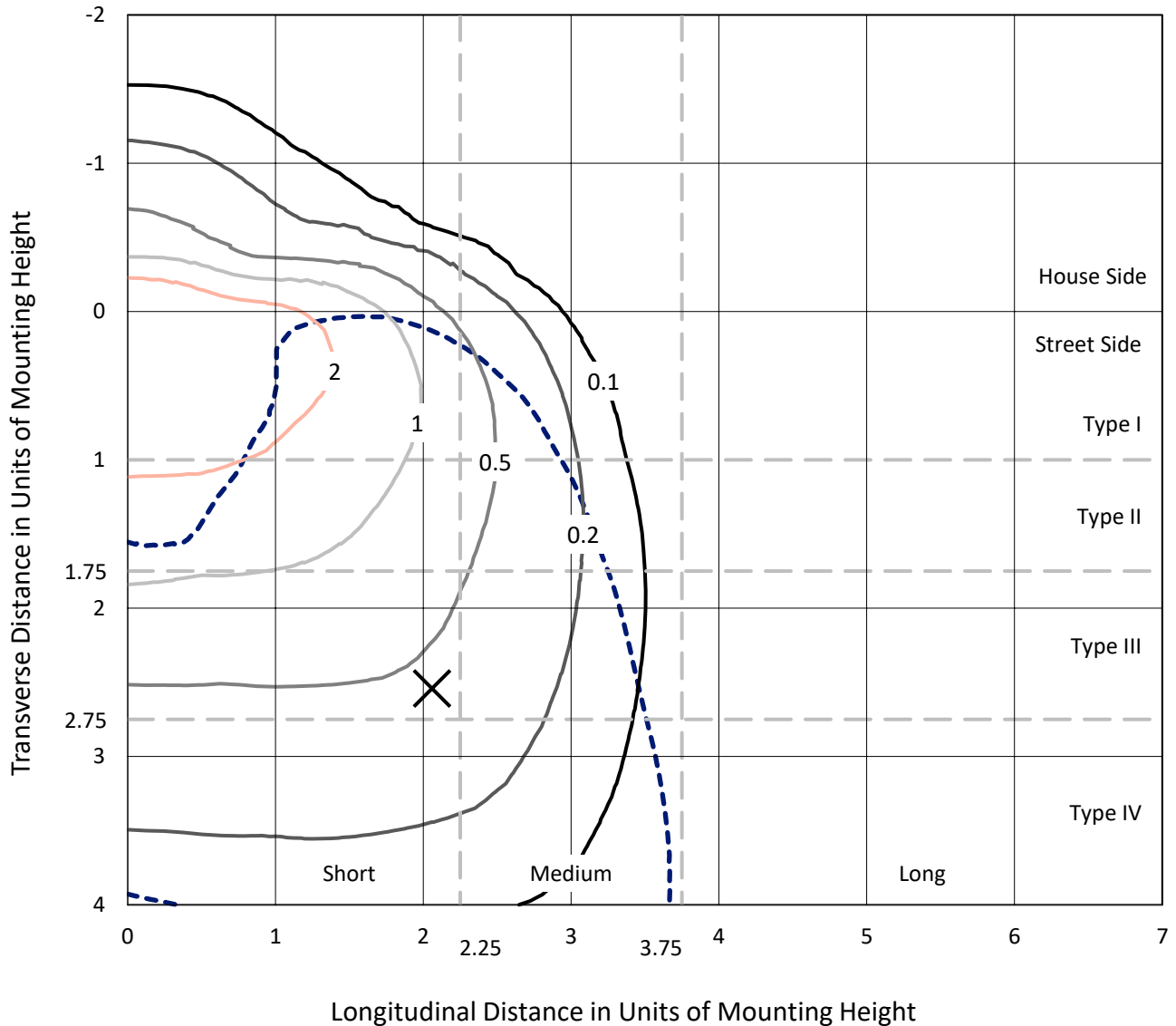
Lumens per Lamp: N/A
Luminaire Lumens: 10127 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 108.2
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: P480727
 CATALOG NUMBER: IFLD-S-SA2C-722-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

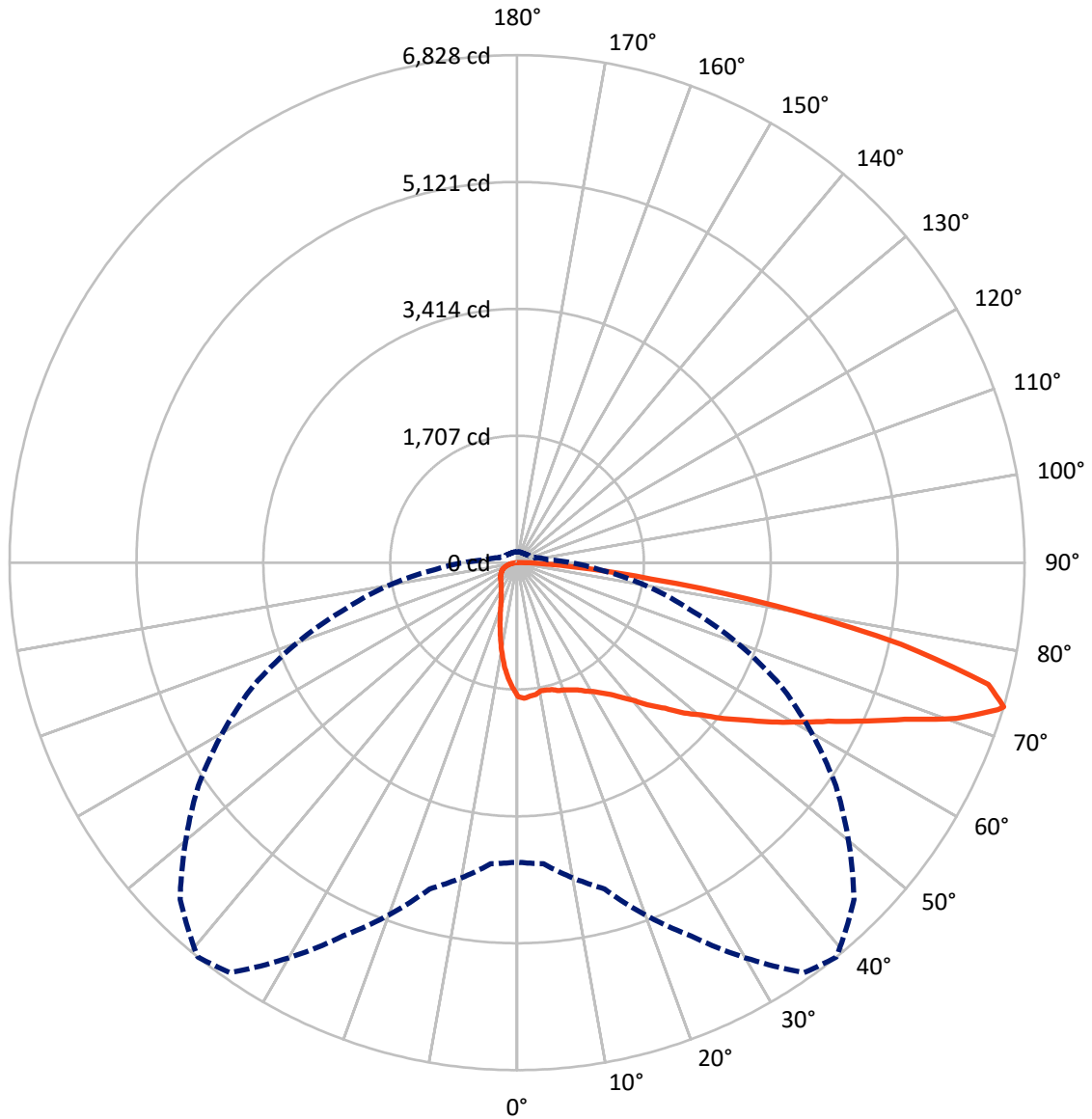
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P480727
CATALOG NUMBER: IFLD-S-SA2C-722-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1423.6	0.0	1423.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8703.5	0.0	8703.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	10127.0	0.0	10127.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.5
10°-20°	397.8	3.9
20°-30°	607.9	6.0
30°-40°	886.3	8.8
40°-50°	1339.3	13.2
50°-60°	1939.4	19.2
60°-70°	2464.2	24.3
70°-80°	1997.6	19.7
80°-90°	338.0	3.3
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°	10127.0	100.0
0°-180°	10127.0	100.0

Coefficient of Utilization



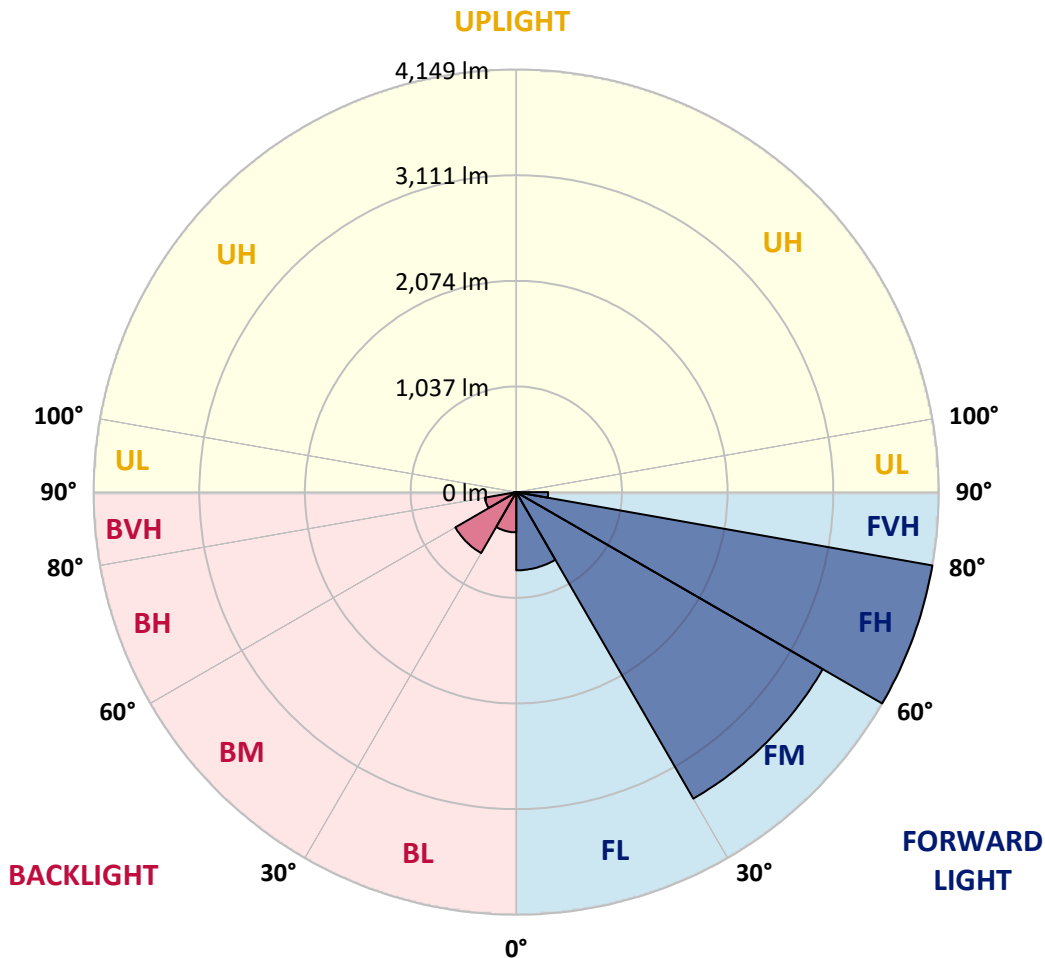
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.4	7.6			
FM (30°-60°)	3474.2	34.3			
FH (60°-80°)	4148.6	41.0			G2/5000
FVH (80°-90°)	313.2	3.1			G3/500
BL (0°-30°)	394.8	3.9	B1/500		
BM (30°-60°)	690.9	6.8	B1/1000		
BH (60°-80°)	313.1	3.1	B1/500		G1/500
BVH (80°-90°)	24.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P480727

CATALOG NUMBER: IFLD-S-SA2C-722-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7
2.5°	1845.7	1826.5	1829.9	1823.1	1829.9	1827.6	1824.2	1807.2	1824.2	1807.2	1802.7
5°	1820.8	1820.8	1832.1	1815.1	1817.4	1806.1	1817.4	1804.9	1793.6	1765.3	1757.4
7.5°	1812.9	1811.7	1812.9	1789.1	1800.4	1793.6	1782.3	1768.7	1746.0	1727.9	1701.8
10°	1758.5	1769.8	1757.4	1764.1	1773.2	1752.8	1751.7	1748.3	1738.1	1714.3	1698.4
12.5°	1729.0	1748.3	1755.1	1749.4	1757.4	1759.6	1752.8	1748.3	1735.8	1720.0	1674.6
15°	1741.5	1718.8	1738.1	1775.5	1767.5	1773.2	1774.3	1769.8	1764.1	1734.7	1705.2
17.5°	1744.9	1731.3	1772.1	1780.0	1790.2	1810.6	1797.0	1795.9	1774.3	1754.0	1710.9
20°	1752.8	1747.2	1780.0	1821.9	1823.1	1826.5	1833.3	1816.3	1804.9	1769.8	1704.1
22.5°	1782.3	1801.5	1832.1	1850.3	1860.5	1862.7	1862.7	1828.7	1816.3	1787.9	1735.8
25°	1870.7	1850.3	1893.3	1914.8	1900.1	1896.7	1888.8	1858.2	1844.6	1819.7	1750.6
27.5°	1935.2	1934.1	1959.0	1988.5	1948.8	1956.8	1928.4	1919.4	1888.8	1875.2	1776.6
30°	2023.6	2048.5	2047.4	2056.5	2004.4	2013.4	1977.2	1960.2	1943.2	1951.1	1853.7
32.5°	2136.9	2127.9	2142.6	2135.8	2083.7	2091.6	2048.5	2022.5	2028.1	2051.9	1959.0
35°	2209.4	2200.4	2206.0	2206.0	2190.2	2181.1	2163.0	2129.0	2156.2	2200.4	2076.9
37.5°	2287.6	2298.9	2331.8	2325.0	2304.6	2304.6	2302.3	2278.6	2313.7	2422.4	2265.0
40°	2356.7	2387.3	2407.7	2421.3	2445.1	2445.1	2464.4	2450.8	2514.2	2688.7	2495.0
42.5°	2429.2	2430.4	2541.4	2551.6	2604.9	2627.5	2642.3	2653.6	2772.6	2967.4	2740.8
45°	2522.2	2527.8	2625.3	2703.4	2786.2	2794.1	2849.6	2887.0	3033.2	3272.2	3008.2
47.5°	2644.5	2637.7	2742.0	2866.6	2969.7	3024.1	3090.9	3131.7	3311.9	3603.1	3300.6
50°	2805.4	2785.0	2845.1	3041.1	3162.3	3222.4	3341.3	3409.3	3620.1	3919.2	3501.1
52.5°	3001.4	2967.4	3015.0	3229.2	3365.1	3486.4	3599.7	3675.6	3895.4	4163.9	3649.5
55°	3208.8	3138.5	3152.1	3428.6	3624.6	3739.0	3894.3	3973.6	4197.9	4383.7	3798.0
57.5°	3413.9	3369.7	3342.5	3620.1	3933.9	4043.8	4186.6	4289.7	4480.1	4578.6	3923.7
60°	3586.1	3574.8	3530.6	3916.9	4261.4	4355.4	4505.0	4568.4	4712.3	4758.8	3926.0
62.5°	3727.7	3689.2	3759.4	4156.0	4594.5	4701.0	4865.3	4871.0	4972.9	4871.0	3810.4
65°	3838.8	3841.0	3953.2	4444.9	4979.7	5137.2	5269.8	5255.1	5189.3	4804.1	3537.4
67.5°	3939.6	3982.6	4146.9	4762.2	5474.9	5623.3	5770.6	5575.7	5248.3	4491.4	3003.7
70°	4018.9	4062.0	4408.7	5148.5	6058.4	6275.9	6308.8	5702.6	4977.5	3804.8	2266.1
72.5°	4009.8	4088.0	4557.1	5456.7	6576.2	6764.3	6499.1	5345.7	4146.9	2652.5	1322.3
73°	4029.1	4067.6	4544.6	5542.8	6733.7	6827.7	6410.8	5233.5	3911.3	2379.4	1118.3
75°	3657.5	3787.8	4319.2	5402.4	6564.9	6547.9	5903.2	4361.1	2780.5	1249.7	541.6
77.5°	2705.7	2788.4	3403.7	4442.7	5388.8	5280.0	4452.9	2787.3	1320.0	463.4	292.3
80°	1322.3	1386.8	1803.8	2565.2	3523.8	3532.8	2763.5	1450.3	565.4	261.7	199.4
82.5°	660.6	699.1	866.8	1127.4	1733.6	1816.3	1401.6	824.9	350.1	148.4	113.3
85°	431.7	458.9	533.7	551.8	735.3	776.1	652.6	643.6	227.7	80.4	91.8
87.5°	286.7	291.2	327.4	278.7	294.6	283.3	315.0	405.6	66.8	34.0	24.9
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°	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7	1802.7
2.5°	1797.0	1781.1	1764.1	1740.4	1723.4	1697.3	1673.5	1663.3	1661.0	1662.2	1650.8
5°	1750.6	1727.9	1693.9	1645.2	1616.9	1573.8	1537.5	1518.3	1497.9	1501.3	1492.2
7.5°	1686.0	1661.0	1608.9	1552.3	1482.0	1420.8	1386.8	1339.3	1312.1	1291.7	1303.0
10°	1665.6	1622.5	1544.3	1466.2	1357.4	1276.9	1198.8	1144.4	1107.0	1070.7	1086.6
12.5°	1655.4	1612.3	1503.5	1388.0	1247.5	1125.1	1015.2	948.4	895.1	863.4	875.8
15°	1646.3	1593.1	1465.0	1301.9	1144.4	983.5	860.0	771.6	720.6	690.0	693.4
17.5°	1658.8	1582.9	1408.4	1218.0	1031.1	858.8	721.7	630.0	577.9	558.6	554.1
20°	1646.3	1571.5	1352.9	1134.2	917.8	739.9	608.4	532.5	496.3	480.4	477.0
22.5°	1650.8	1544.3	1295.1	1041.3	812.4	640.2	532.5	474.7	446.4	438.5	440.8
25°	1672.4	1528.5	1237.3	939.3	708.2	566.5	483.8	439.6	419.2	411.3	413.6
27.5°	1688.2	1542.1	1185.2	843.0	619.8	500.8	443.0	413.6	400.0	394.3	393.2
30°	1727.9	1550.0	1134.2	756.9	547.3	457.7	414.7	390.9	381.8	378.4	377.3
32.5°	1786.8	1564.7	1075.3	677.6	494.0	417.0	392.0	371.6	369.4	366.0	367.1
35°	1883.1	1615.7	1009.5	609.6	443.0	389.8	368.2	354.6	354.6	354.6	358.0
37.5°	2021.3	1687.1	950.6	545.0	410.2	366.0	347.8	343.3	341.0	344.4	346.7
40°	2199.2	1773.2	903.0	494.0	381.8	350.1	334.2	332.0	330.8	329.7	332.0
42.5°	2394.1	1883.1	862.2	454.4	361.4	333.1	321.8	319.5	315.0	317.3	320.7
45°	2587.9	2019.1	826.0	422.6	347.8	324.1	308.2	307.1	304.8	303.7	309.3
47.5°	2803.1	2152.8	814.7	403.4	337.6	310.5	299.1	298.0	291.2	290.1	294.6
50°	2970.8	2251.4	827.1	394.3	322.9	300.3	292.3	286.7	281.0	275.3	275.3
52.5°	3086.4	2319.3	836.2	387.5	315.0	286.7	276.5	274.2	268.5	262.9	260.6
55°	3190.7	2360.1	838.5	388.6	307.1	270.8	264.0	262.9	259.5	250.4	248.1
57.5°	3225.8	2343.1	793.1	378.4	302.5	260.6	251.5	253.8	249.3	241.3	240.2
60°	3222.4	2225.3	690.0	364.8	292.3	249.3	237.9	244.7	244.7	235.7	234.5
62.5°	3026.4	1953.4	564.3	338.8	281.0	237.9	225.5	235.7	239.1	233.4	232.3
65°	2619.6	1590.8	471.3	312.7	264.0	225.5	213.0	224.3	230.0	227.7	226.6
67.5°	2167.5	1216.9	392.0	278.7	242.5	208.5	198.3	206.2	209.6	210.7	211.9
70°	1531.9	810.1	327.4	241.3	213.0	190.4	179.0	180.2	179.0	182.4	182.4
72.5°	832.8	466.8	266.3	205.1	183.6	165.4	157.5	151.8	151.8	150.7	150.7
73°	712.7	419.2	253.8	199.4	175.6	160.9	151.8	147.3	147.3	146.2	145.0
75°	400.0	307.1	217.5	171.1	151.8	140.5	133.7	126.9	125.8	125.8	125.8
77.5°	262.9	239.1	173.4	137.1	122.4	112.2	109.9	103.1	103.1	103.1	102.0
80°	197.1	188.1	133.7	104.2	94.0	86.1	83.8	79.3	78.2	73.6	74.8
82.5°	131.4	148.4	97.4	73.6	63.5	58.9	58.9	57.8	54.4	48.7	48.7
85°	104.2	121.2	70.2	45.3	37.4	31.7	32.9	31.7	30.6	24.9	23.8
87.5°	19.3	48.7	20.4	12.5	9.1	5.7	5.7	3.4	2.3	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)