

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: P480920

Luminaire Tested: **IFLD-S-SA2A-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

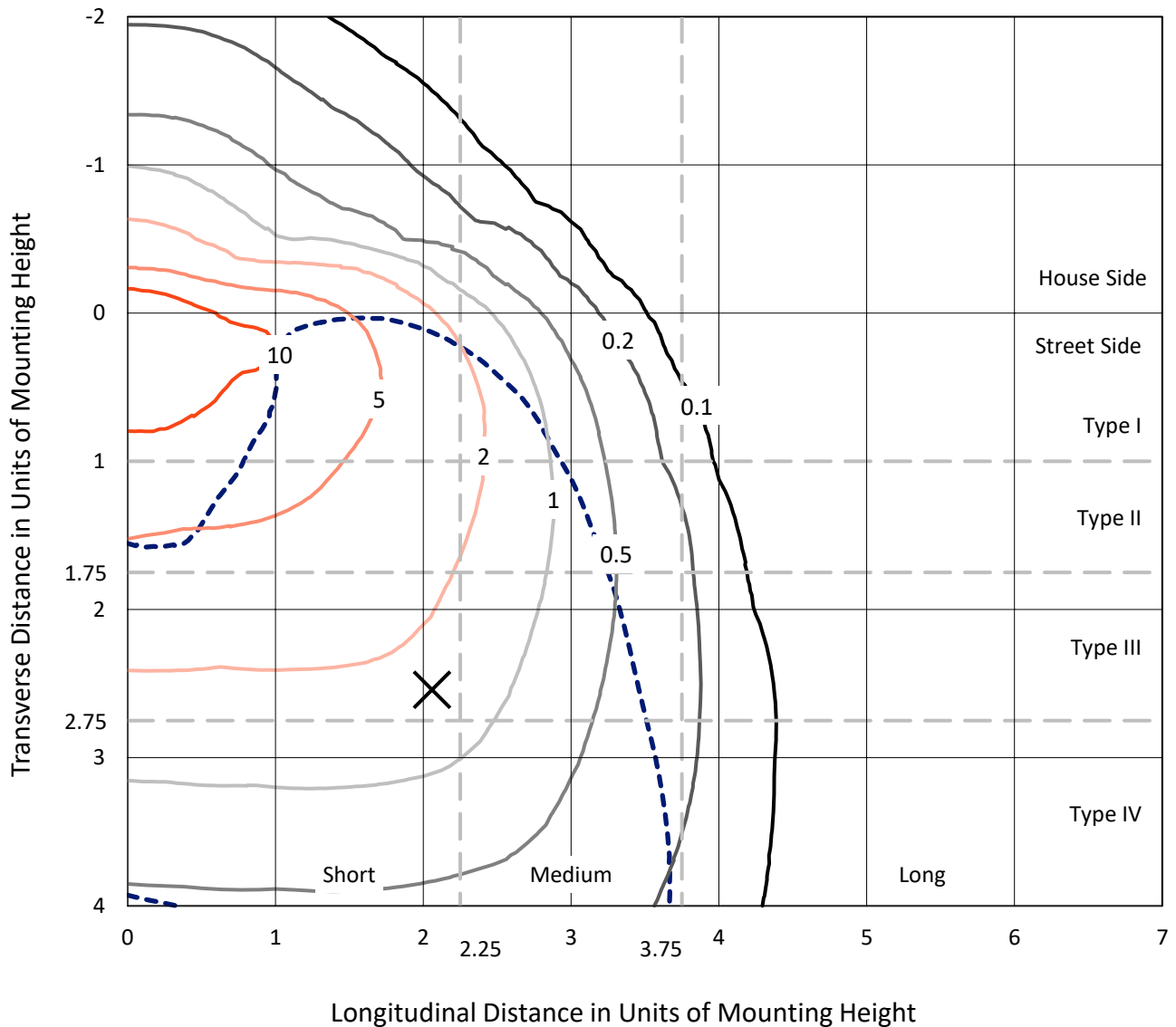
Lumens per Lamp: N/A
Luminaire Lumens: 9134.6 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

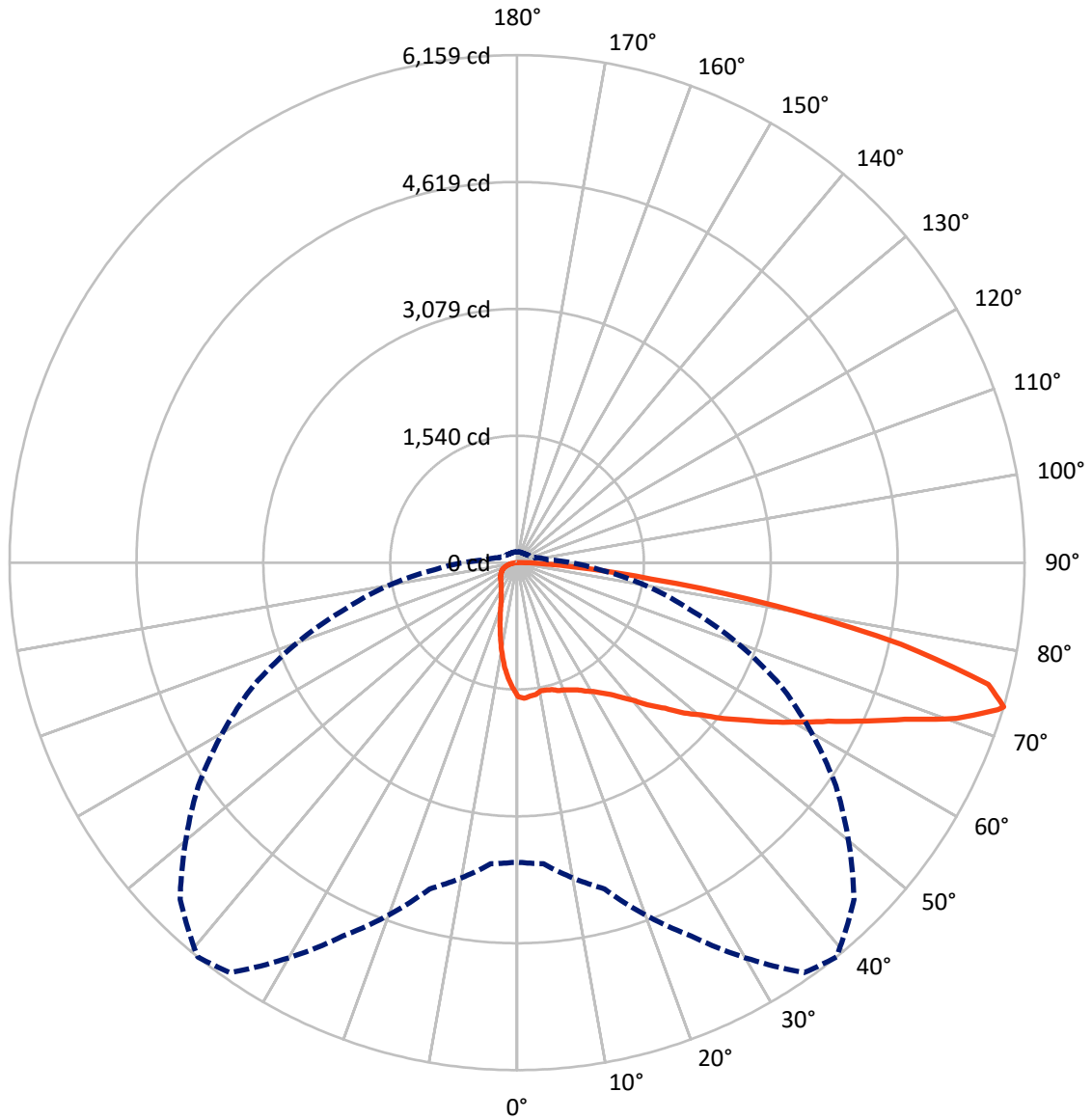
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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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	1284.1	0.0	1284.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7850.6	0.0	7850.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	9134.6	0.0	9134.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	1.5
10°-20°	358.8	3.9
20°-30°	548.3	6.0
30°-40°	799.5	8.8
40°-50°	1208.1	13.2
50°-60°	1749.4	19.2
60°-70°	2222.7	24.3
70°-80°	1801.8	19.7
80°-90°	304.9	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°	9134.6	100.0
0°-180°	9134.6	100.0

Coefficient of Utilization



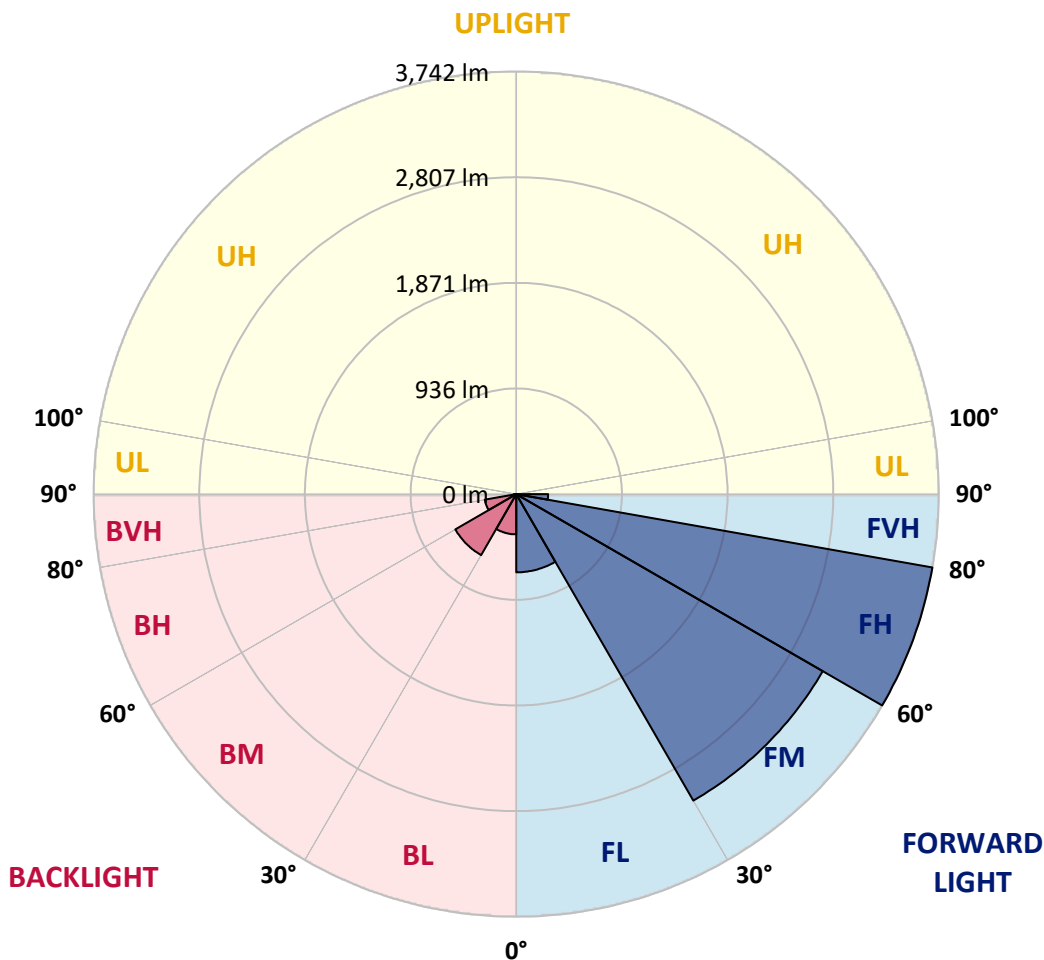
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.2	7.6			
FM (30°-60°)	3133.8	34.3			
FH (60°-80°)	3742.1	41.0			G2/5000
FVH (80°-90°)	282.5	3.1			G3/500
BL (0°-30°)	356.1	3.9	B1/500		
BM (30°-60°)	623.2	6.8	B1/1000		
BH (60°-80°)	282.4	3.1	B1/500		G1/500
BVH (80°-90°)	22.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0
2.5°	1664.9	1647.5	1650.5	1644.4	1650.5	1648.5	1645.4	1630.1	1645.4	1630.1	1626.0
5°	1642.4	1642.4	1652.6	1637.3	1639.3	1629.1	1639.3	1628.1	1617.8	1592.3	1585.1
7.5°	1635.2	1634.2	1635.2	1613.8	1624.0	1617.8	1607.6	1595.4	1574.9	1558.6	1535.1
10°	1586.2	1596.4	1585.1	1591.3	1599.4	1581.1	1580.0	1577.0	1567.8	1546.3	1532.0
12.5°	1559.6	1577.0	1583.1	1578.0	1585.1	1587.2	1581.1	1577.0	1565.7	1551.4	1510.5
15°	1570.8	1550.4	1567.8	1601.5	1594.3	1599.4	1600.5	1596.4	1591.3	1564.7	1538.1
17.5°	1573.9	1561.6	1598.4	1605.6	1614.8	1633.2	1620.9	1619.9	1600.5	1582.1	1543.2
20°	1581.1	1575.9	1605.6	1643.4	1644.4	1647.5	1653.6	1638.3	1628.1	1596.4	1537.1
22.5°	1607.6	1625.0	1652.6	1668.9	1678.1	1680.2	1680.2	1649.5	1638.3	1612.7	1565.7
25°	1687.3	1668.9	1707.8	1727.2	1713.9	1710.8	1703.7	1676.1	1663.8	1641.4	1579.0
27.5°	1745.6	1744.6	1767.1	1793.6	1757.9	1765.0	1739.5	1731.3	1703.7	1691.4	1602.5
30°	1825.3	1847.8	1846.8	1855.0	1807.9	1816.1	1783.4	1768.1	1752.8	1759.9	1672.0
32.5°	1927.5	1919.3	1932.6	1926.5	1879.5	1886.6	1847.8	1824.3	1829.4	1850.9	1767.1
35°	1992.9	1984.7	1989.9	1989.9	1975.5	1967.4	1951.0	1920.4	1944.9	1984.7	1873.3
37.5°	2063.4	2073.7	2103.3	2097.2	2078.8	2078.8	2076.7	2055.3	2086.9	2185.1	2043.0
40°	2125.8	2153.4	2171.8	2184.0	2205.5	2205.5	2222.9	2210.6	2267.8	2425.2	2250.5
42.5°	2191.2	2192.2	2292.4	2301.6	2349.6	2370.0	2383.3	2393.6	2500.9	2676.7	2472.2
45°	2275.0	2280.1	2368.0	2438.5	2513.1	2520.3	2570.4	2604.1	2735.9	2951.6	2713.4
47.5°	2385.4	2379.2	2473.3	2585.7	2678.7	2727.8	2788.0	2824.8	2987.3	3250.0	2977.1
50°	2530.5	2512.1	2566.3	2743.1	2852.4	2906.6	3013.9	3075.2	3265.3	3535.1	3158.0
52.5°	2707.3	2676.7	2719.6	2912.7	3035.4	3144.7	3246.9	3315.4	3513.7	3755.9	3291.9
55°	2894.3	2831.0	2843.2	3092.6	3269.4	3372.6	3512.7	3584.2	3786.6	3954.2	3425.8
57.5°	3079.3	3039.5	3014.9	3265.3	3548.4	3647.6	3776.3	3869.3	4041.0	4130.0	3539.2
60°	3234.7	3224.4	3184.6	3533.1	3843.8	3928.6	4063.5	4120.8	4250.5	4292.5	3541.3
62.5°	3362.4	3327.7	3391.0	3748.7	4144.3	4240.3	4388.5	4393.6	4485.6	4393.6	3437.0
65°	3462.6	3464.6	3565.8	4009.4	4491.7	4633.8	4753.4	4740.1	4680.8	4333.3	3190.7
67.5°	3553.5	3592.4	3740.6	4295.5	4938.4	5072.2	5205.1	5029.3	4734.0	4051.3	2709.4
70°	3625.1	3663.9	3976.6	4644.0	5464.7	5660.9	5690.6	5143.8	4489.7	3431.9	2044.0
72.5°	3616.9	3687.4	4110.5	4922.0	5931.8	6101.4	5862.3	4821.9	3740.6	2392.5	1192.7
73°	3634.3	3669.0	4099.3	4999.7	6073.8	6158.6	5782.5	4720.7	3528.0	2146.2	1008.7
75°	3299.1	3416.6	3895.9	4873.0	5921.5	5906.2	5324.7	3933.7	2508.0	1127.3	488.5
77.5°	2440.6	2515.2	3070.1	4007.3	4860.7	4762.6	4016.5	2514.2	1190.6	418.0	263.7
80°	1192.7	1250.9	1627.0	2313.8	3178.5	3186.6	2492.7	1308.2	510.0	236.1	179.9
82.5°	595.8	630.6	781.8	1016.9	1563.7	1638.3	1264.2	744.0	315.8	133.9	102.2
85°	389.4	413.9	481.4	497.7	663.3	700.1	588.7	580.5	205.4	72.6	82.8
87.5°	258.6	262.7	295.4	251.4	265.7	255.5	284.1	365.9	60.3	30.7	22.5
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°	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0	1626.0
2.5°	1620.9	1606.6	1591.3	1569.8	1554.5	1531.0	1509.5	1500.3	1498.3	1499.3	1489.1
5°	1579.0	1558.6	1527.9	1484.0	1458.4	1419.6	1386.9	1369.5	1351.1	1354.2	1346.0
7.5°	1520.8	1498.3	1451.3	1400.2	1336.8	1281.6	1250.9	1208.0	1183.5	1165.1	1175.3
10°	1502.4	1463.5	1393.0	1322.5	1224.4	1151.8	1081.3	1032.2	998.5	965.8	980.1
12.5°	1493.2	1454.3	1356.2	1252.0	1125.2	1014.9	915.7	855.4	807.4	778.8	790.0
15°	1485.0	1436.9	1321.5	1174.3	1032.2	887.1	775.7	696.0	650.0	622.4	625.5
17.5°	1496.2	1427.8	1270.4	1098.7	930.0	774.7	651.0	568.2	521.2	503.9	499.8
20°	1485.0	1417.5	1220.3	1023.0	827.8	667.4	548.8	480.3	447.6	433.3	430.3
22.5°	1489.1	1393.0	1168.2	939.2	732.8	577.4	480.3	428.2	402.7	395.5	397.6
25°	1508.5	1378.7	1116.0	847.2	638.8	511.0	436.4	396.5	378.1	371.0	373.0
27.5°	1522.8	1391.0	1069.0	760.4	559.0	451.7	399.6	373.0	360.8	355.7	354.6
30°	1558.6	1398.1	1023.0	682.7	493.6	412.9	374.1	352.6	344.4	341.4	340.3
32.5°	1611.7	1411.4	969.9	611.2	445.6	376.1	353.6	335.2	333.2	330.1	331.1
35°	1698.6	1457.4	910.6	549.8	399.6	351.6	332.2	319.9	319.9	319.9	323.0
37.5°	1823.3	1521.8	857.5	491.6	370.0	330.1	313.8	309.7	307.6	310.7	312.7
40°	1983.7	1599.4	814.5	445.6	344.4	315.8	301.5	299.4	298.4	297.4	299.4
42.5°	2159.5	1698.6	777.8	409.8	326.0	300.5	290.3	288.2	284.1	286.2	289.2
45°	2334.3	1821.2	745.0	381.2	313.8	292.3	278.0	277.0	274.9	273.9	279.0
47.5°	2528.5	1941.8	734.8	363.8	304.6	280.0	269.8	268.8	262.7	261.6	265.7
50°	2679.7	2030.7	746.1	355.7	291.3	270.8	263.7	258.6	253.5	248.3	248.3
52.5°	2784.0	2092.1	754.2	349.5	284.1	258.6	249.4	247.3	242.2	237.1	235.1
55°	2878.0	2128.9	756.3	350.6	277.0	244.3	238.1	237.1	234.0	225.9	223.8
57.5°	2909.7	2113.5	715.4	341.4	272.9	235.1	226.9	228.9	224.8	217.7	216.7
60°	2906.6	2007.2	622.4	329.1	263.7	224.8	214.6	220.8	220.8	212.6	211.6
62.5°	2729.8	1761.9	509.0	305.6	253.5	214.6	203.4	212.6	215.6	210.5	209.5
65°	2362.9	1434.9	425.2	282.1	238.1	203.4	192.1	202.4	207.5	205.4	204.4
67.5°	1955.1	1097.6	353.6	251.4	218.7	188.1	178.9	186.0	189.1	190.1	191.1
70°	1381.8	730.7	295.4	217.7	192.1	171.7	161.5	162.5	161.5	164.5	164.5
72.5°	751.2	421.1	240.2	185.0	165.6	149.2	142.1	136.9	136.9	135.9	135.9
73°	642.8	378.1	228.9	179.9	158.4	145.1	136.9	132.9	132.9	131.8	130.8
75°	360.8	277.0	196.2	154.3	136.9	126.7	120.6	114.5	113.4	113.4	113.4
77.5°	237.1	215.6	156.4	123.7	110.4	101.2	99.1	93.0	93.0	93.0	92.0
80°	177.8	169.7	120.6	94.0	84.8	77.7	75.6	71.5	70.5	66.4	67.5
82.5°	118.6	133.9	87.9	66.4	57.2	53.1	53.1	52.1	49.1	43.9	43.9
85°	94.0	109.4	63.4	40.9	33.7	28.6	29.6	28.6	27.6	22.5	21.5
87.5°	17.4	43.9	18.4	11.2	8.2	5.1	5.1	3.1	2.0	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)