

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: P480999

Luminaire Tested: **IFLD-S-SA2B-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480999
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

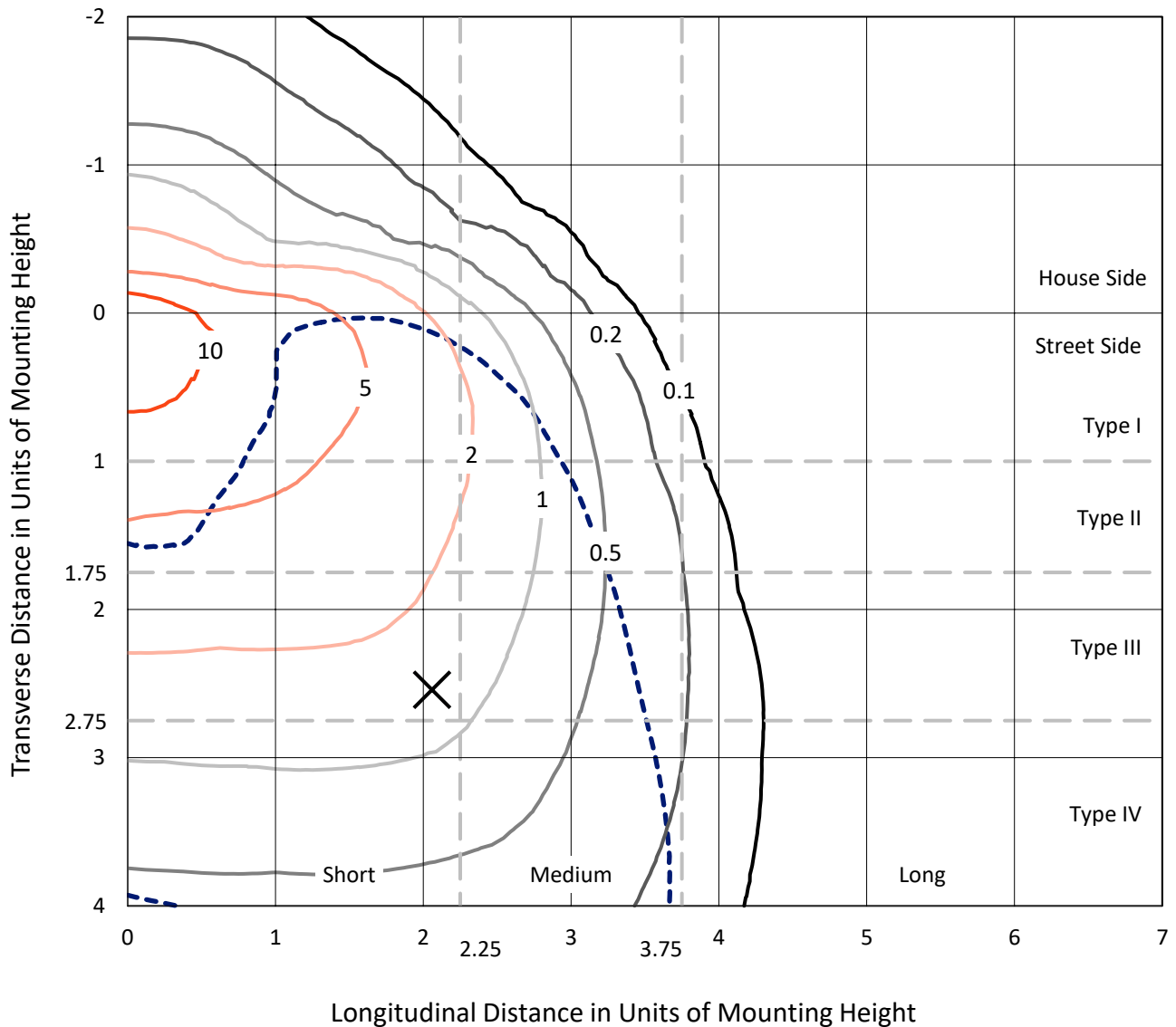
Lumens per Lamp: N/A
Luminaire Lumens: 8118.6 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 82.4
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

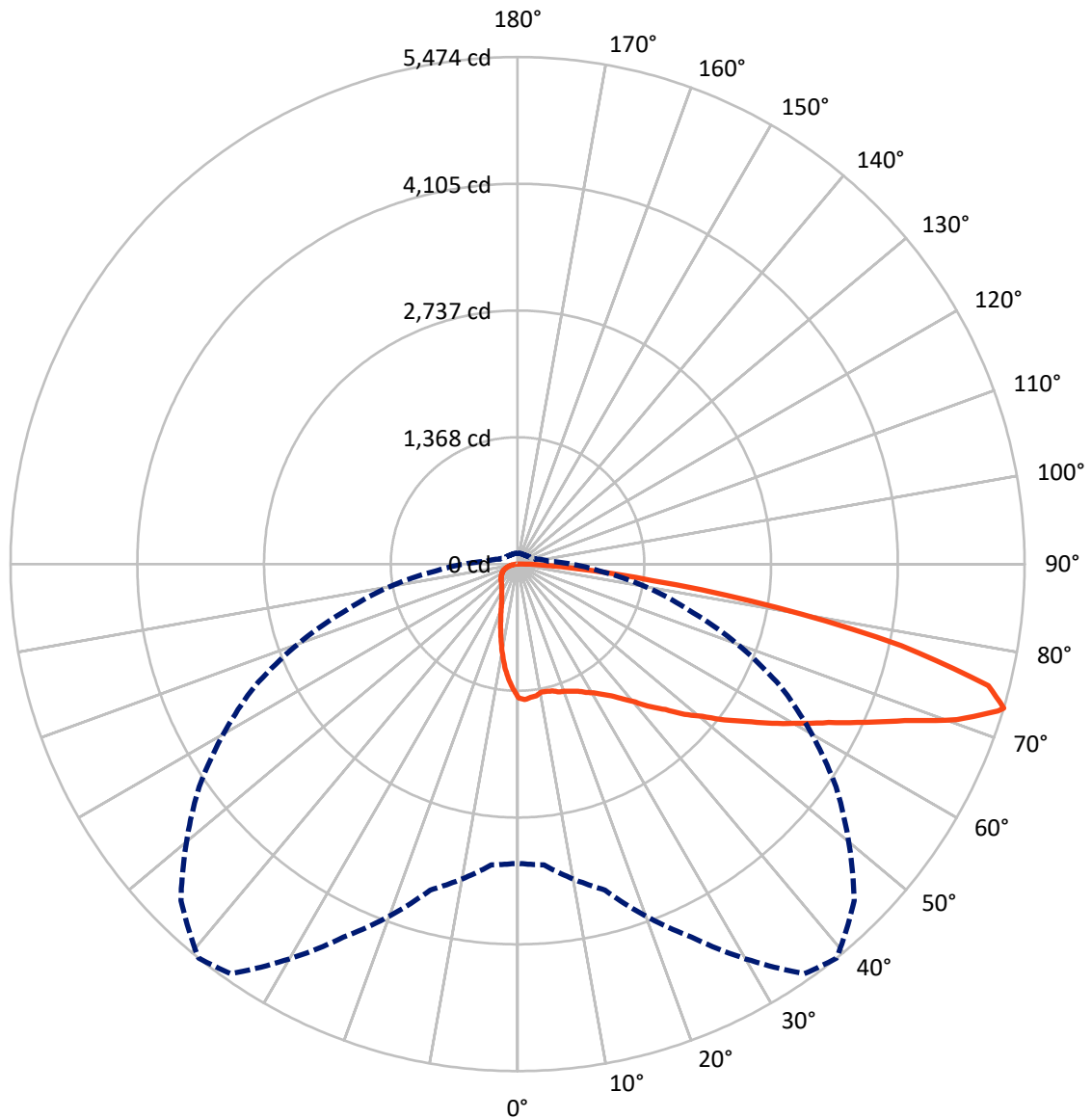
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 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	1141.2	0.0	1141.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6977.3	0.0	6977.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	8118.6	0.0	8118.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.5	1.5
10°-20°	318.9	3.9
20°-30°	487.3	6.0
30°-40°	710.5	8.8
40°-50°	1073.7	13.2
50°-60°	1554.8	19.2
60°-70°	1975.5	24.3
70°-80°	1601.4	19.7
80°-90°	270.9	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°	8118.6	100.0
0°-180°	8118.6	100.0

Coefficient of Utilization



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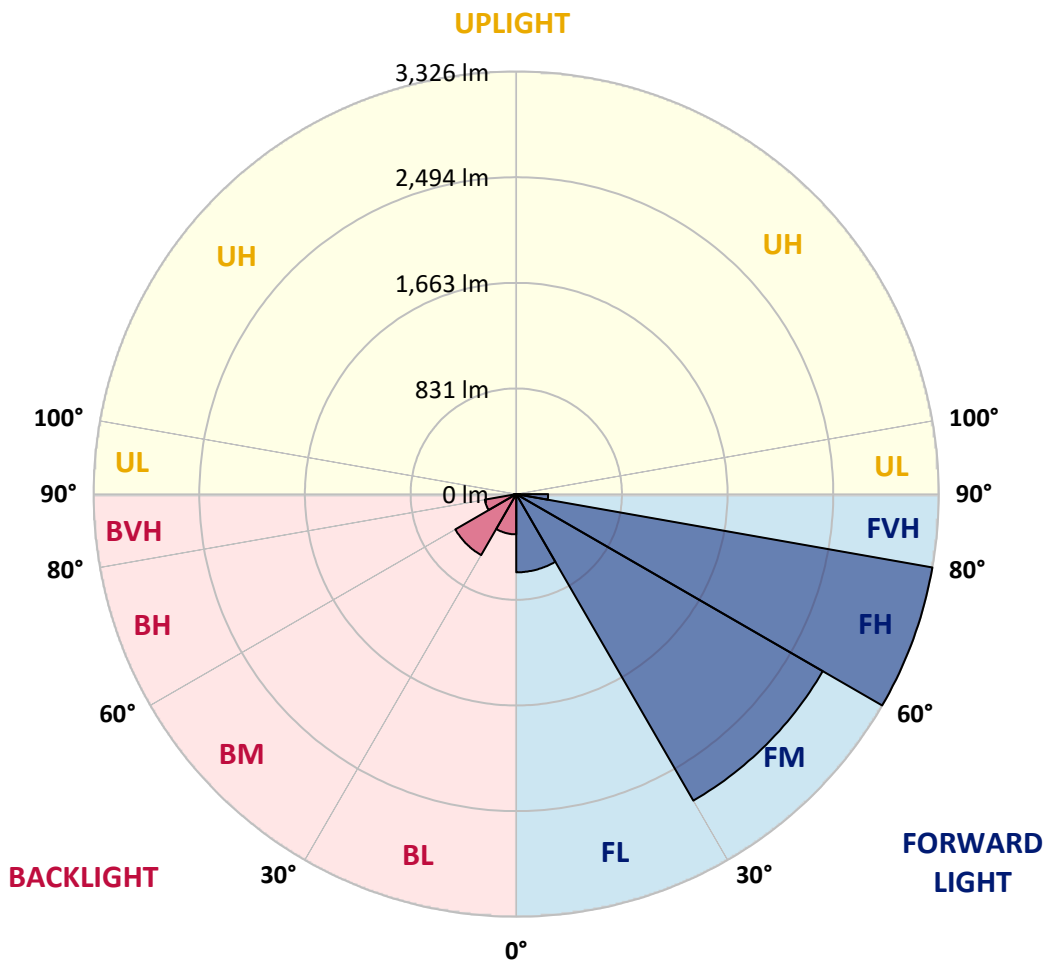
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.2	7.6			
FM (30°-60°)	2785.2	34.3			
FH (60°-80°)	3325.9	41.0			G2/5000
FVH (80°-90°)	251.1	3.1			G3/500
BL (0°-30°)	316.5	3.9	B1/500		
BM (30°-60°)	553.9	6.8	B1/1000		
BH (60°-80°)	251.0	3.1	B1/500		G1/500
BVH (80°-90°)	19.9	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°	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2
2.5°	1479.7	1464.2	1467.0	1461.5	1467.0	1465.1	1462.4	1448.8	1462.4	1448.8	1445.2
5°	1459.7	1459.7	1468.8	1455.1	1457.0	1447.9	1457.0	1447.0	1437.9	1415.2	1408.8
7.5°	1453.3	1452.4	1453.3	1434.3	1443.3	1437.9	1428.8	1417.9	1399.7	1385.2	1364.3
10°	1409.7	1418.8	1408.8	1414.3	1421.5	1405.2	1404.3	1401.6	1393.4	1374.3	1361.6
12.5°	1386.1	1401.6	1407.0	1402.5	1408.8	1410.6	1405.2	1401.6	1391.6	1378.8	1342.5
15°	1396.1	1377.9	1393.4	1423.4	1417.0	1421.5	1422.4	1418.8	1414.3	1390.7	1367.0
17.5°	1398.8	1387.9	1420.6	1427.0	1435.2	1451.5	1440.6	1439.7	1422.4	1406.1	1371.6
20°	1405.2	1400.6	1427.0	1460.6	1461.5	1464.2	1469.7	1456.1	1447.0	1418.8	1366.1
22.5°	1428.8	1444.2	1468.8	1483.3	1491.5	1493.3	1493.3	1466.0	1456.1	1433.3	1391.6
25°	1499.7	1483.3	1517.8	1535.1	1523.3	1520.5	1514.2	1489.7	1478.8	1458.8	1403.4
27.5°	1551.4	1550.5	1570.5	1594.1	1562.3	1568.7	1546.0	1538.7	1514.2	1503.3	1424.3
30°	1622.3	1642.3	1641.4	1648.6	1606.8	1614.1	1585.0	1571.4	1557.8	1564.1	1486.0
32.5°	1713.1	1705.8	1717.7	1712.2	1670.4	1676.8	1642.3	1621.4	1625.9	1645.0	1570.5
35°	1771.2	1764.0	1768.5	1768.5	1755.8	1748.5	1734.0	1706.8	1728.6	1764.0	1665.0
37.5°	1833.9	1843.0	1869.3	1863.9	1847.5	1847.5	1845.7	1826.7	1854.8	1942.0	1815.8
40°	1889.3	1913.9	1930.2	1941.1	1960.2	1960.2	1975.6	1964.7	2015.6	2155.5	2000.1
42.5°	1947.5	1948.4	2037.4	2045.6	2088.3	2106.4	2118.2	2127.3	2222.7	2378.9	2197.3
45°	2021.9	2026.5	2104.6	2167.3	2233.6	2239.9	2284.5	2314.4	2431.6	2623.3	2411.6
47.5°	2120.0	2114.6	2198.2	2298.1	2380.7	2424.3	2477.9	2510.6	2655.1	2888.5	2646.0
50°	2249.0	2232.7	2280.8	2438.0	2535.2	2583.3	2678.7	2733.2	2902.1	3141.9	2806.7
52.5°	2406.2	2378.9	2417.1	2588.7	2697.7	2794.9	2885.8	2946.6	3122.8	3338.1	2925.7
55°	2572.4	2516.1	2527.0	2748.6	2905.8	2997.5	3121.9	3185.5	3365.4	3514.3	3044.7
57.5°	2736.8	2701.4	2679.6	2902.1	3153.7	3241.8	3356.3	3438.9	3591.5	3670.6	3145.6
60°	2874.9	2865.8	2830.4	3140.1	3416.2	3491.6	3611.5	3662.4	3777.8	3815.0	3147.4
62.5°	2988.4	2957.5	3013.8	3331.8	3683.3	3768.7	3900.4	3904.9	3986.7	3904.9	3054.7
65°	3077.4	3079.2	3169.2	3563.4	3992.1	4118.4	4224.7	4212.8	4160.2	3851.3	2835.8
67.5°	3158.3	3192.8	3324.5	3817.7	4389.1	4508.1	4626.1	4469.9	4207.4	3600.6	2408.0
70°	3221.9	3256.4	3534.3	4127.5	4856.9	5031.3	5057.6	4571.6	3990.3	3050.2	1816.7
72.5°	3214.6	3277.3	3653.3	4374.5	5272.0	5422.7	5210.2	4285.5	3324.5	2126.4	1060.0
73°	3230.0	3260.9	3643.3	4443.6	5398.2	5473.6	5139.3	4195.6	3135.6	1907.5	896.5
75°	2932.1	3036.6	3462.6	4330.9	5262.9	5249.2	4732.4	3496.2	2229.0	1001.9	434.2
77.5°	2169.1	2235.4	2728.6	3561.6	4320.0	4232.8	3569.7	2234.5	1058.2	371.5	234.3
80°	1060.0	1111.8	1446.1	2056.5	2824.9	2832.2	2215.4	1162.7	453.3	209.8	159.9
82.5°	529.6	560.4	694.9	903.8	1389.7	1456.1	1123.6	661.3	280.7	119.0	90.8
85°	346.1	367.9	427.8	442.4	589.5	622.2	523.2	515.9	182.6	64.5	73.6
87.5°	229.8	233.4	262.5	223.4	236.2	227.1	252.5	325.2	53.6	27.2	20.0
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°	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2	1445.2
2.5°	1440.6	1427.9	1414.3	1395.2	1381.6	1360.7	1341.6	1333.4	1331.6	1332.5	1323.4
5°	1403.4	1385.2	1358.0	1318.9	1296.2	1261.7	1232.6	1217.2	1200.8	1203.5	1196.3
7.5°	1351.6	1331.6	1289.8	1244.4	1188.1	1139.0	1111.8	1073.6	1051.8	1035.5	1044.6
10°	1335.2	1300.7	1238.1	1175.4	1088.2	1023.7	961.0	917.4	887.4	858.4	871.1
12.5°	1327.1	1292.6	1205.4	1112.7	1000.1	902.0	813.9	760.3	717.6	692.1	702.1
15°	1319.8	1277.1	1174.5	1043.7	917.4	788.4	689.4	618.6	577.7	553.2	555.9
17.5°	1329.8	1268.9	1129.1	976.5	826.6	688.5	578.6	505.0	463.2	447.8	444.2
20°	1319.8	1259.9	1084.5	909.2	735.7	593.1	487.8	426.9	397.8	385.1	382.4
22.5°	1323.4	1238.1	1038.2	834.8	651.3	513.2	426.9	380.6	357.9	351.5	353.3
25°	1340.7	1225.3	991.9	753.0	567.7	454.2	387.9	352.4	336.1	329.7	331.5
27.5°	1353.4	1236.2	950.1	675.8	496.9	401.5	355.2	331.5	320.6	316.1	315.2
30°	1385.2	1242.6	909.2	606.8	438.7	367.0	332.4	313.4	306.1	303.4	302.5
32.5°	1432.4	1254.4	862.0	543.2	396.0	334.3	314.3	297.9	296.1	293.4	294.3
35°	1509.6	1295.3	809.3	488.7	355.2	312.5	295.2	284.3	284.3	284.3	287.0
37.5°	1620.5	1352.5	762.1	436.9	328.8	293.4	278.9	275.2	273.4	276.1	277.9
40°	1763.1	1421.5	723.9	396.0	306.1	280.7	268.0	266.1	265.2	264.3	266.1
42.5°	1919.3	1509.6	691.2	364.2	289.8	267.0	258.0	256.1	252.5	254.3	257.1
45°	2074.6	1618.6	662.2	338.8	278.9	259.8	247.1	246.2	244.3	243.4	248.0
47.5°	2247.2	1725.8	653.1	323.4	270.7	248.9	239.8	238.9	233.4	232.5	236.2
50°	2381.6	1804.9	663.1	316.1	258.9	240.7	234.3	229.8	225.3	220.7	220.7
52.5°	2474.3	1859.4	670.3	310.6	252.5	229.8	221.6	219.8	215.3	210.7	208.9
55°	2557.9	1892.1	672.2	311.6	246.2	217.1	211.6	210.7	208.0	200.7	198.9
57.5°	2586.0	1878.4	635.8	303.4	242.5	208.9	201.6	203.5	199.8	193.5	192.6
60°	2583.3	1784.0	553.2	292.5	234.3	199.8	190.7	196.2	196.2	188.9	188.0
62.5°	2426.2	1566.0	452.3	271.6	225.3	190.7	180.8	188.9	191.7	187.1	186.2
65°	2100.1	1275.3	377.9	250.7	211.6	180.8	170.8	179.8	184.4	182.6	181.7
67.5°	1737.6	975.5	314.3	223.4	194.4	167.1	159.0	165.3	168.0	168.9	169.9
70°	1228.1	649.5	262.5	193.5	170.8	152.6	143.5	144.4	143.5	146.2	146.2
72.5°	667.6	374.2	213.5	164.4	147.1	132.6	126.3	121.7	121.7	120.8	120.8
73°	571.3	336.1	203.5	159.9	140.8	129.0	121.7	118.1	118.1	117.2	116.3
75°	320.6	246.2	174.4	137.2	121.7	112.6	107.2	101.7	100.8	100.8	100.8
77.5°	210.7	191.7	139.0	109.9	98.1	89.9	88.1	82.7	82.7	82.7	81.7
80°	158.0	150.8	107.2	83.6	75.4	69.0	67.2	63.6	62.7	59.0	59.9
82.5°	105.4	119.0	78.1	59.0	50.9	47.2	47.2	46.3	43.6	39.1	39.1
85°	83.6	97.2	56.3	36.3	30.0	25.4	26.3	25.4	24.5	20.0	19.1
87.5°	15.4	39.1	16.3	10.0	7.3	4.5	4.5	2.7	1.8	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)