

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: P480765

Luminaire Tested: **IFLD-S-SA2B-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480765
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

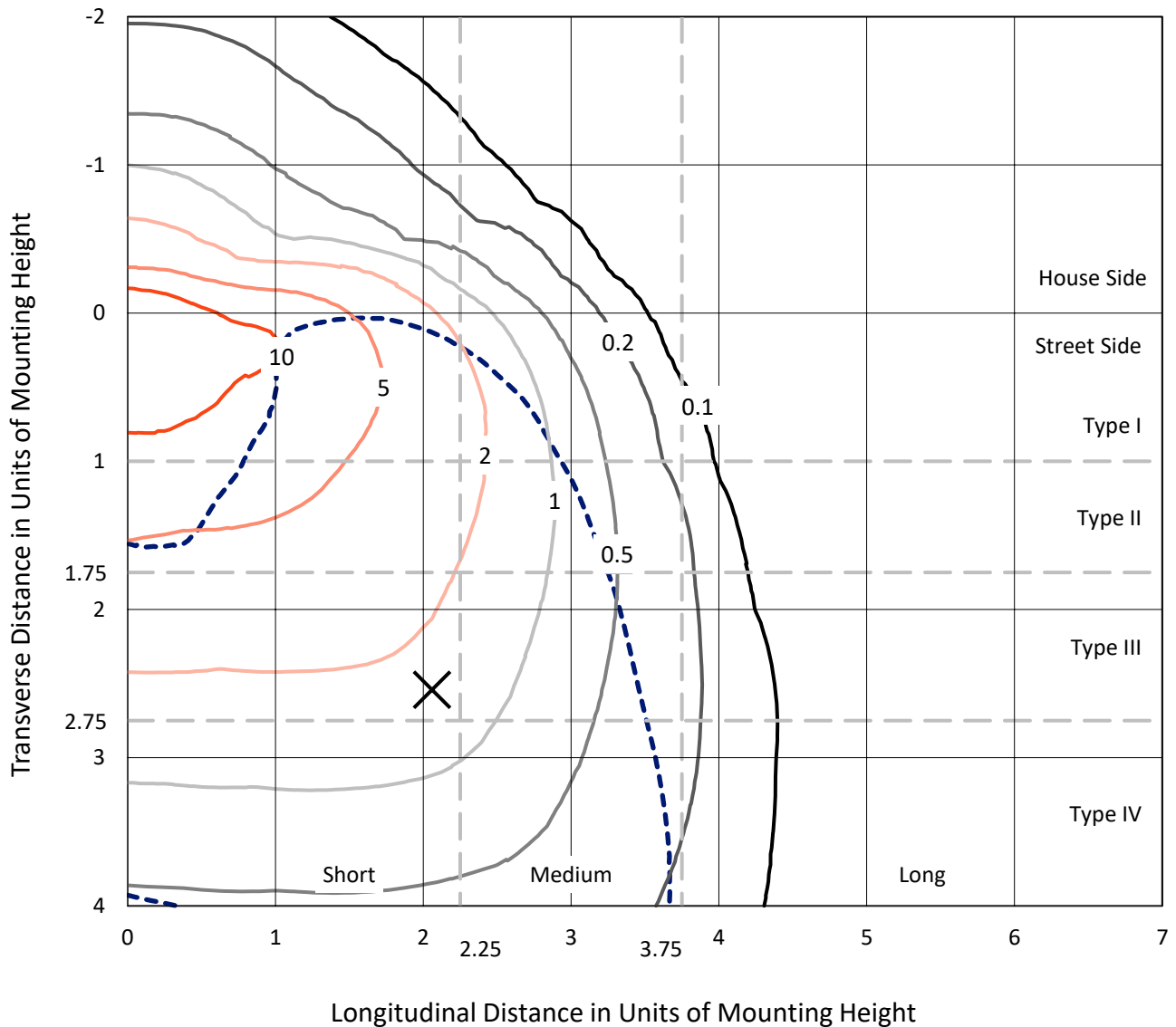
Lumens per Lamp: N/A
Luminaire Lumens: 9236.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

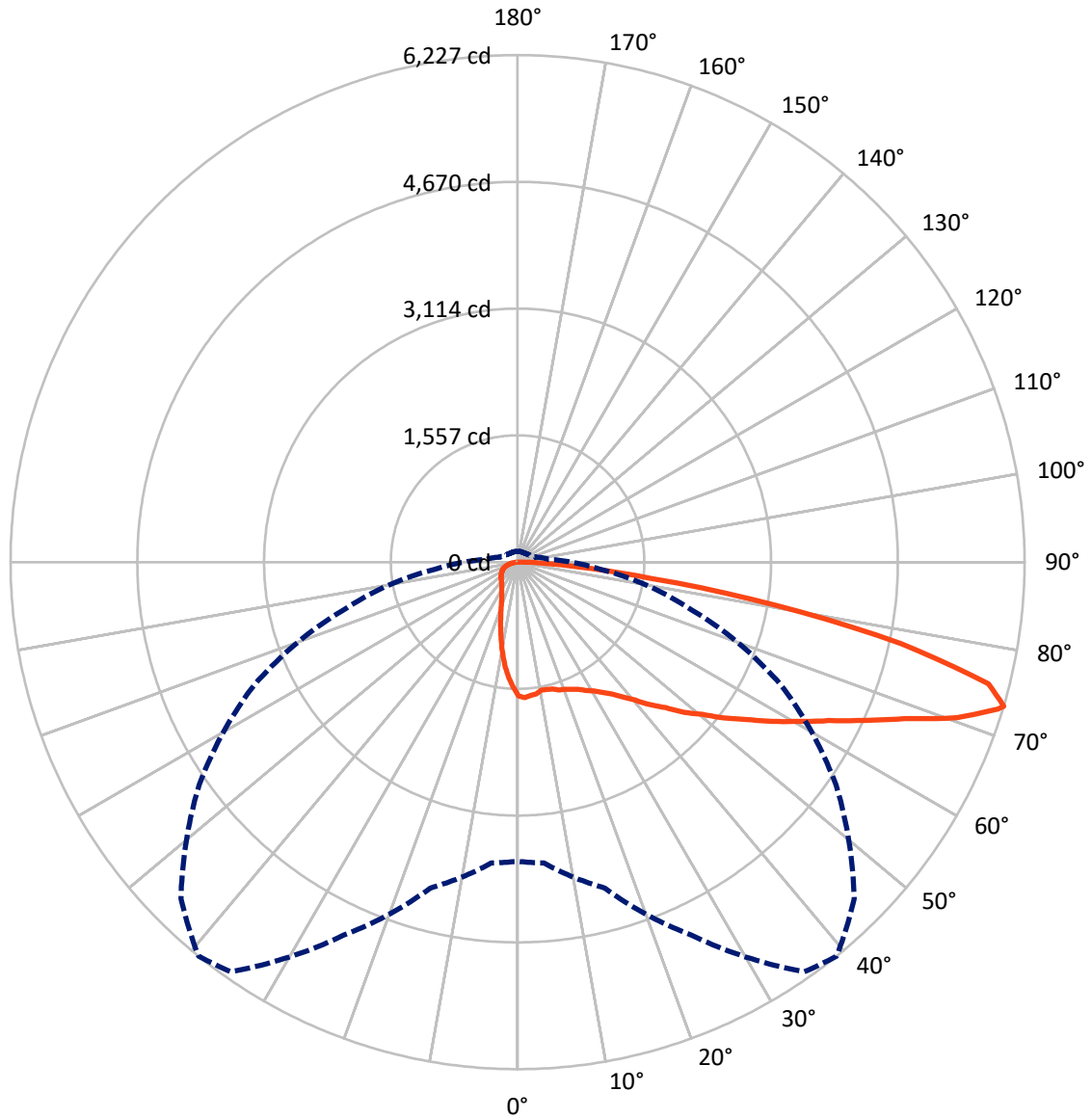
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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	1298.3	0.0	1298.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7937.9	0.0	7937.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	9236.2	0.0	9236.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.5
10°-20°	362.8	3.9
20°-30°	554.4	6.0
30°-40°	808.4	8.8
40°-50°	1221.5	13.2
50°-60°	1768.8	19.2
60°-70°	2247.4	24.3
70°-80°	1821.9	19.7
80°-90°	308.3	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°	9236.2	100.0
0°-180°	9236.2	100.0

Coefficient of Utilization



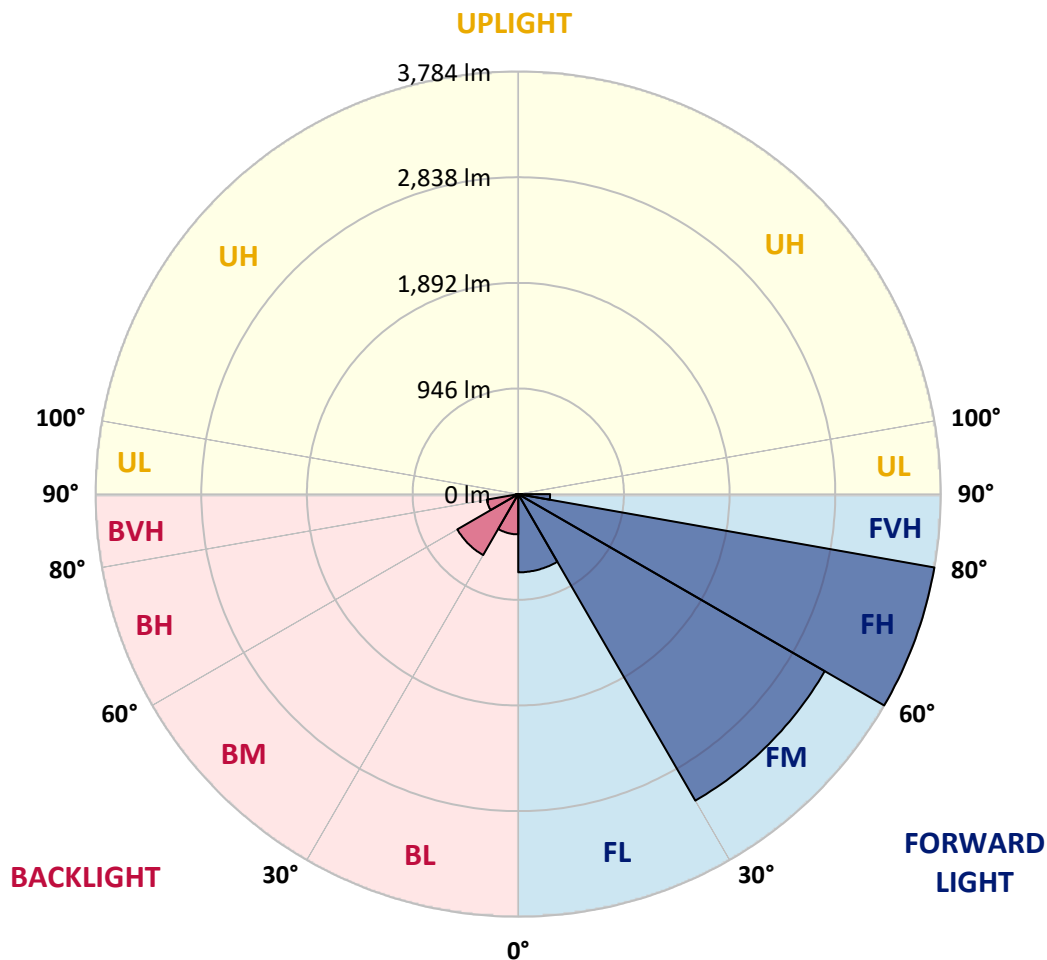
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.9	7.6			
FM (30°-60°)	3168.6	34.3			
FH (60°-80°)	3783.7	41.0			G2/5000
FVH (80°-90°)	285.6	3.1			G3/500
BL (0°-30°)	360.1	3.9	B1/500		
BM (30°-60°)	630.1	6.8	B1/1000		
BH (60°-80°)	285.5	3.1	B1/500		G1/500
BVH (80°-90°)	22.6	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°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1683.4	1665.8	1668.9	1662.7	1668.9	1666.8	1663.7	1648.2	1663.7	1648.2	1644.1
5°	1660.6	1660.6	1671.0	1655.5	1657.5	1647.2	1657.5	1646.2	1635.8	1610.0	1602.8
7.5°	1653.4	1652.4	1653.4	1631.7	1642.0	1635.8	1625.5	1613.1	1592.4	1575.9	1552.1
10°	1603.8	1614.1	1602.8	1609.0	1617.2	1598.6	1597.6	1594.5	1585.2	1563.5	1549.0
12.5°	1576.9	1594.5	1600.7	1595.5	1602.8	1604.8	1598.6	1594.5	1583.1	1568.7	1527.3
15°	1588.3	1567.6	1585.2	1619.3	1612.1	1617.2	1618.3	1614.1	1609.0	1582.1	1555.2
17.5°	1591.4	1579.0	1616.2	1623.4	1632.7	1651.3	1638.9	1637.9	1618.3	1599.7	1560.4
20°	1598.6	1593.5	1623.4	1661.7	1662.7	1665.8	1672.0	1656.5	1646.2	1614.1	1554.2
22.5°	1625.5	1643.1	1671.0	1687.5	1696.8	1698.9	1698.9	1667.9	1656.5	1630.7	1583.1
25°	1706.1	1687.5	1726.8	1746.4	1733.0	1729.9	1722.6	1694.7	1682.3	1659.6	1596.6
27.5°	1765.0	1764.0	1786.7	1813.6	1777.4	1784.6	1758.8	1750.5	1722.6	1710.2	1620.3
30°	1845.6	1868.4	1867.3	1875.6	1828.0	1836.3	1803.2	1787.7	1772.2	1779.5	1690.6
32.5°	1949.0	1940.7	1954.1	1947.9	1900.4	1907.6	1868.4	1844.6	1849.8	1871.5	1786.7
35°	2015.1	2006.8	2012.0	2012.0	1997.5	1989.3	1972.7	1941.7	1966.5	2006.8	1894.2
37.5°	2086.4	2096.7	2126.7	2120.5	2101.9	2101.9	2099.8	2078.1	2110.2	2209.4	2065.7
40°	2149.4	2177.3	2195.9	2208.3	2230.0	2230.0	2247.6	2235.2	2293.1	2452.2	2275.5
42.5°	2215.6	2216.6	2317.9	2327.2	2375.7	2396.4	2409.8	2420.2	2528.7	2706.4	2499.7
45°	2300.3	2305.5	2394.3	2465.6	2541.1	2548.3	2599.0	2633.1	2766.4	2984.4	2743.6
47.5°	2411.9	2405.7	2500.8	2614.5	2708.5	2758.1	2819.1	2856.3	3020.6	3286.1	3010.2
50°	2558.6	2540.0	2594.8	2773.6	2884.2	2938.9	3047.4	3109.4	3301.7	3574.5	3193.1
52.5°	2737.4	2706.4	2749.8	2945.1	3069.1	3179.7	3283.0	3352.3	3552.8	3797.7	3328.5
55°	2926.5	2862.5	2874.9	3127.0	3305.8	3410.2	3551.7	3624.1	3828.7	3998.1	3463.9
57.5°	3113.6	3073.3	3048.5	3301.7	3587.9	3688.1	3818.3	3912.4	4086.0	4175.9	3578.6
60°	3270.6	3260.3	3220.0	3572.4	3886.5	3972.3	4108.7	4166.6	4297.8	4340.2	3580.7
62.5°	3399.8	3364.7	3428.8	3790.4	4190.4	4287.5	4437.3	4442.5	4535.5	4442.5	3475.3
65°	3501.1	3503.2	3605.5	4054.0	4541.7	4685.3	4806.3	4792.8	4732.9	4381.5	3226.2
67.5°	3593.1	3632.3	3782.2	4343.3	4993.3	5128.7	5263.0	5085.3	4786.6	4096.3	2739.5
70°	3665.4	3704.7	4020.9	4695.7	5525.5	5723.9	5753.9	5201.0	4539.6	3470.1	2066.8
72.5°	3657.1	3728.4	4156.3	4976.8	5997.7	6169.3	5927.5	4875.5	3782.2	2419.1	1206.0
73°	3674.7	3709.8	4144.9	5055.3	6141.4	6227.2	5846.9	4773.2	3567.2	2170.1	1019.9
75°	3335.8	3454.6	3939.2	4927.2	5987.4	5971.9	5383.9	3977.5	2535.9	1139.8	494.0
77.5°	2467.7	2543.1	3104.3	4051.9	4914.8	4815.6	4061.2	2542.1	1203.9	422.7	266.6
80°	1206.0	1264.9	1645.1	2339.6	3213.8	3222.1	2520.4	1322.7	515.7	238.7	181.9
82.5°	602.5	637.6	790.5	1028.2	1581.1	1656.5	1278.3	752.3	319.3	135.4	103.3
85°	393.7	418.5	486.7	503.3	670.7	707.9	595.2	587.0	207.7	73.4	83.7
87.5°	261.4	265.6	298.6	254.2	268.7	258.3	287.3	370.0	61.0	31.0	22.7
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°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1638.9	1624.5	1609.0	1587.3	1571.8	1548.0	1526.3	1517.0	1514.9	1516.0	1505.6
5°	1596.6	1575.9	1544.9	1500.5	1474.6	1435.4	1402.3	1384.7	1366.1	1369.2	1361.0
7.5°	1537.7	1514.9	1467.4	1415.7	1351.7	1295.9	1264.9	1221.5	1196.7	1178.1	1188.4
10°	1519.1	1479.8	1408.5	1337.2	1238.0	1164.6	1093.3	1043.7	1009.6	976.5	991.0
12.5°	1509.8	1470.5	1371.3	1265.9	1137.8	1026.1	925.9	864.9	816.4	787.4	798.8
15°	1501.5	1452.9	1336.2	1187.4	1043.7	897.0	784.3	703.7	657.2	629.3	632.4
17.5°	1512.9	1443.6	1284.5	1110.9	940.4	783.3	658.3	574.6	527.0	509.5	505.3
20°	1501.5	1433.3	1233.9	1034.4	837.0	674.8	554.9	485.7	452.6	438.2	435.1
22.5°	1505.6	1408.5	1181.2	949.7	740.9	583.9	485.7	433.0	407.2	399.9	402.0
25°	1525.3	1394.0	1128.5	856.7	645.9	516.7	441.3	401.0	382.4	375.1	377.2
27.5°	1539.7	1406.4	1080.9	768.8	565.3	456.8	404.1	377.2	364.8	359.6	358.6
30°	1575.9	1413.7	1034.4	690.3	499.1	417.5	378.2	356.5	348.2	345.1	344.1
32.5°	1629.6	1427.1	980.7	618.0	450.6	380.3	357.5	338.9	336.9	333.8	334.8
35°	1717.5	1473.6	920.7	556.0	404.1	355.5	335.8	323.4	323.4	323.4	326.5
37.5°	1843.6	1538.7	867.0	497.1	374.1	333.8	317.2	313.1	311.0	314.1	316.2
40°	2005.8	1617.2	823.6	450.6	348.2	319.3	304.8	302.8	301.7	300.7	302.8
42.5°	2183.5	1717.5	786.4	414.4	329.6	303.8	293.5	291.4	287.3	289.3	292.4
45°	2360.2	1841.5	753.3	385.5	317.2	295.5	281.1	280.0	278.0	276.9	282.1
47.5°	2556.6	1963.4	743.0	367.9	307.9	283.1	272.8	271.8	265.6	264.5	268.7
50°	2709.5	2053.3	754.4	359.6	294.5	273.8	266.6	261.4	256.3	251.1	251.1
52.5°	2814.9	2115.3	762.6	353.4	287.3	261.4	252.1	250.1	244.9	239.7	237.7
55°	2910.0	2152.5	764.7	354.4	280.0	247.0	240.8	239.7	236.6	228.4	226.3
57.5°	2942.0	2137.0	723.4	345.1	275.9	237.7	229.4	231.5	227.3	220.1	219.1
60°	2938.9	2029.6	629.3	332.7	266.6	227.3	217.0	223.2	223.2	214.9	213.9
62.5°	2760.2	1781.5	514.6	309.0	256.3	217.0	205.6	214.9	218.0	212.9	211.8
65°	2389.2	1450.9	429.9	285.2	240.8	205.6	194.3	204.6	209.8	207.7	206.7
67.5°	1976.9	1109.9	357.5	254.2	221.1	190.1	180.8	188.1	191.2	192.2	193.2
70°	1397.1	738.9	298.6	220.1	194.3	173.6	163.3	164.3	163.3	166.4	166.4
72.5°	759.5	425.8	242.8	187.0	167.4	150.9	143.6	138.5	138.5	137.4	137.4
73°	650.0	382.4	231.5	181.9	160.2	146.7	138.5	134.3	134.3	133.3	132.3
75°	364.8	280.0	198.4	156.0	138.5	128.1	121.9	115.7	114.7	114.7	114.7
77.5°	239.7	218.0	158.1	125.0	111.6	102.3	100.2	94.0	94.0	94.0	93.0
80°	179.8	171.5	121.9	95.1	85.8	78.5	76.5	72.3	71.3	67.2	68.2
82.5°	119.9	135.4	88.9	67.2	57.9	53.7	53.7	52.7	49.6	44.4	44.4
85°	95.1	110.6	64.1	41.3	34.1	28.9	30.0	28.9	27.9	22.7	21.7
87.5°	17.6	44.4	18.6	11.4	8.3	5.2	5.2	3.1	2.1	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)