

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: P1211082

Luminaire Tested: **ARCH4-160-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18775 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.7
Input Voltage (V): NR
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



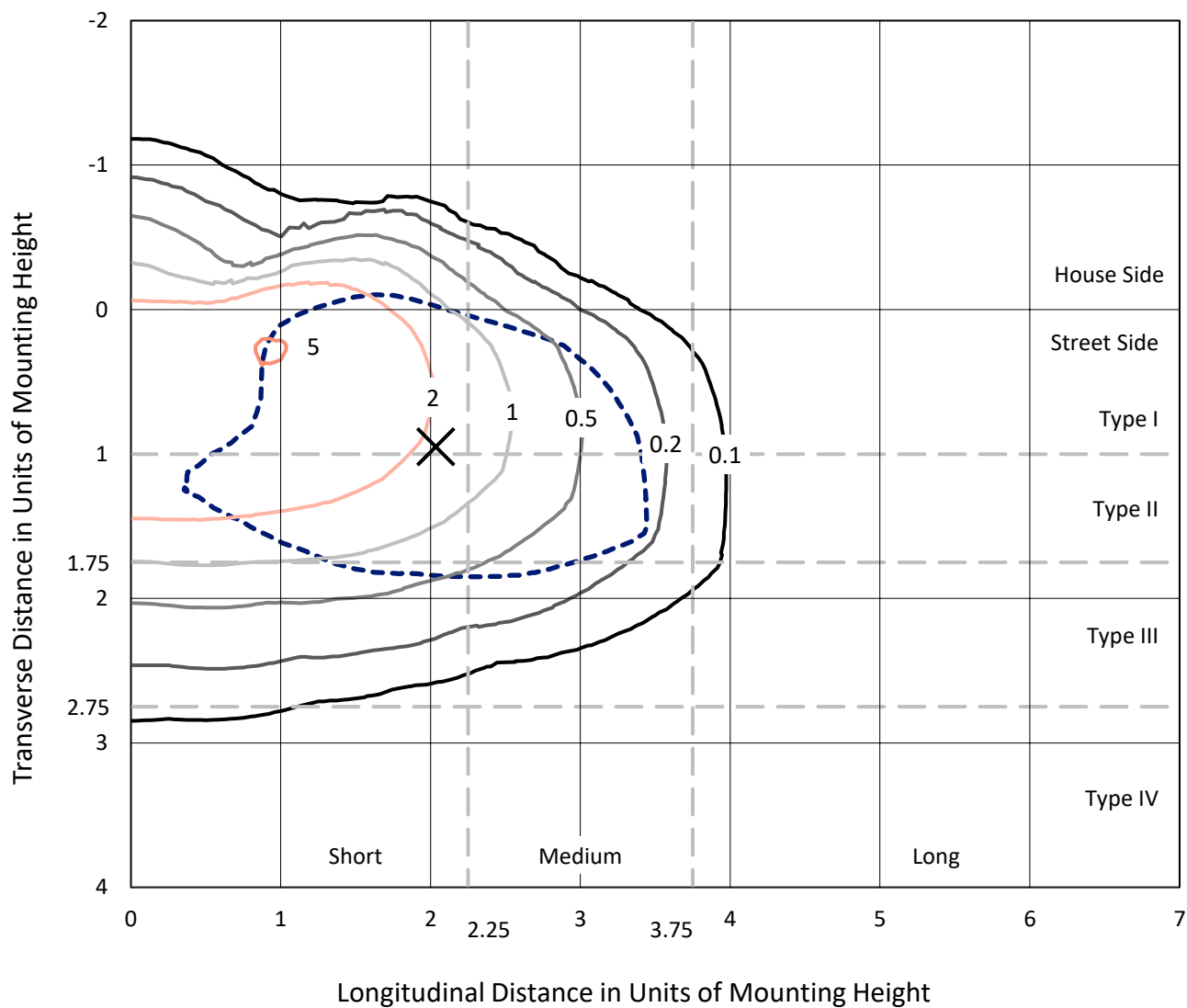
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

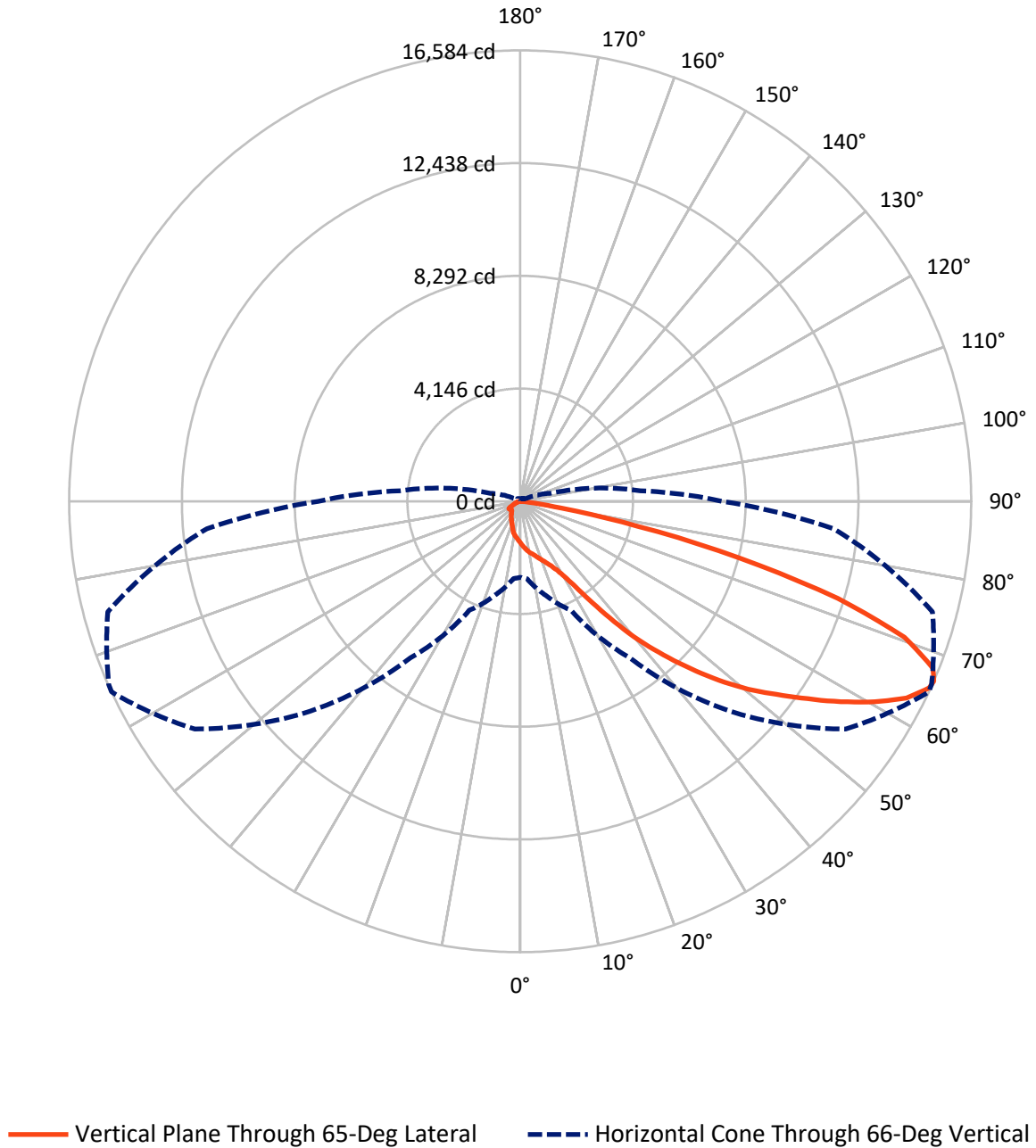
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.8	0.0	2215.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16559.2	0.0	16559.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	18775.0	0.0	18775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	0.8
10°-20°	429.3	2.3
20°-30°	785.7	4.2
30°-40°	1596.5	8.5
40°-50°	3371.5	18.0
50°-60°	5183.1	27.6
60°-70°	5217.1	27.8
70°-80°	1949.4	10.4
80°-90°	97.4	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°	18775.0	100.0
0°-180°	18775.0	100.0

Coefficient of Utilization



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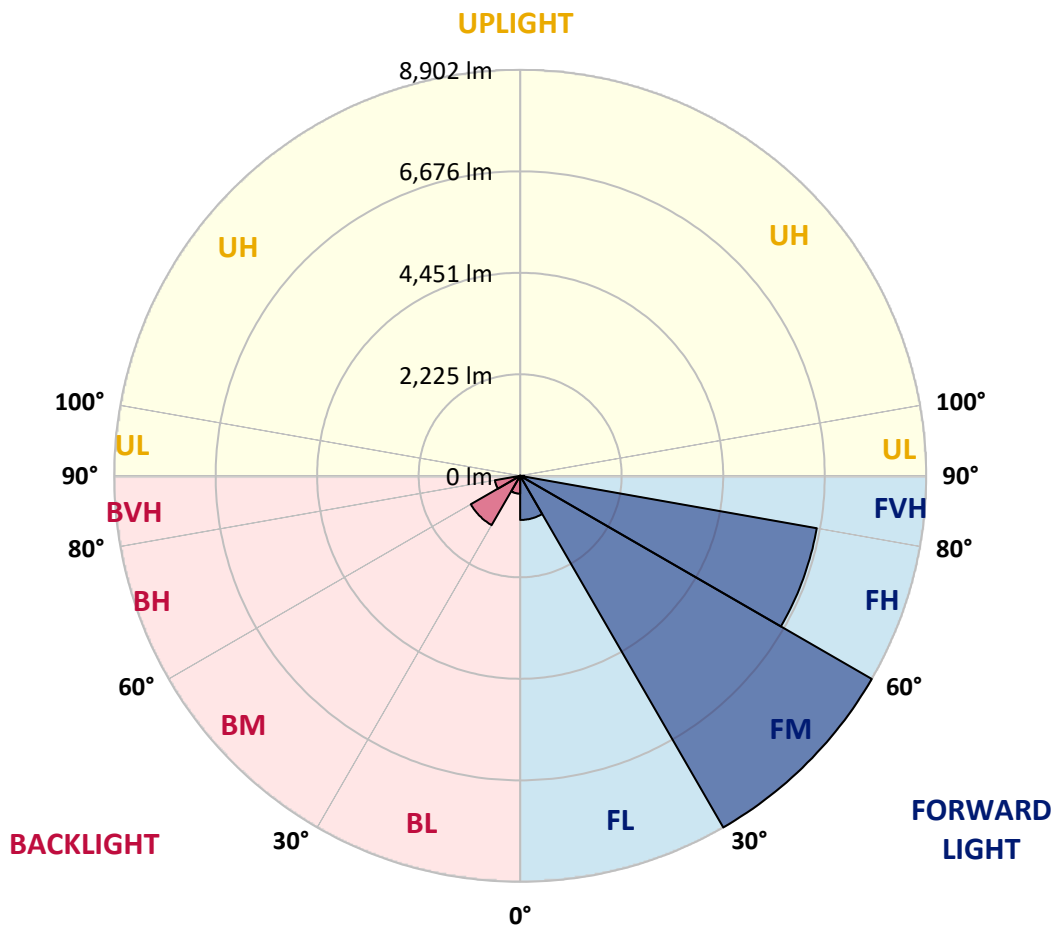
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	967.8	5.2			
FM	(30°-60°)	8901.8	47.4			
FH	(60°-80°)	6603.6	35.2			G3/7500
FVH	(80°-90°)	85.9	0.5			G1/100
BL	(0°-30°)	392.2	2.1	B1/500		
BM	(30°-60°)	1249.3	6.7	B2/2500		
BH	(60°-80°)	562.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1744.3	1747.7	1740.9	1727.2	1713.6	1696.6	1669.3	1625.0	1618.2	1587.5	1553.5
5°	1863.5	1870.3	1860.1	1856.7	1849.9	1826.0	1788.5	1723.8	1717.0	1655.7	1577.3
7.5°	1904.4	1914.6	1907.8	1907.8	1907.8	1897.6	1880.5	1822.6	1812.4	1734.0	1614.8
10°	1935.0	1941.9	1938.4	1952.1	1962.3	1955.5	1945.3	1911.2	1901.0	1822.6	1665.9
12.5°	1982.7	1986.1	1989.5	1996.4	2013.4	2020.2	2016.8	1986.1	1979.3	1924.8	1730.6
15°	2027.0	2027.0	2030.4	2061.1	2084.9	2098.6	2102.0	2078.1	2071.3	2027.0	1812.4
17.5°	2067.9	2071.3	2081.5	2115.6	2156.5	2183.7	2200.8	2190.5	2180.3	2146.3	1907.8
20°	2129.2	2136.0	2146.3	2194.0	2234.8	2279.1	2313.2	2309.8	2306.4	2282.5	2020.2
22.5°	2234.8	2241.6	2258.7	2303.0	2343.8	2398.4	2456.3	2452.9	2442.6	2425.6	2153.1
25°	2395.0	2395.0	2405.2	2442.6	2493.7	2558.5	2613.0	2623.2	2613.0	2602.8	2320.0
27.5°	2595.9	2599.4	2599.4	2640.2	2687.9	2769.7	2837.8	2848.0	2848.0	2837.8	2544.8
30°	2875.3	2865.1	2858.3	2892.3	2943.4	3062.7	3181.9	3202.4	3192.1	3209.2	2861.7
32.5°	3355.7	3338.6	3280.7	3287.5	3318.2	3481.7	3682.7	3754.2	3750.8	3781.5	3372.7
35°	4020.0	3985.9	3900.7	3829.2	3825.8	4002.9	4309.5	4578.7	4575.3	4680.9	4149.4
37.5°	4769.5	4813.7	4653.6	4531.0	4493.5	4633.2	5028.4	5610.9	5641.6	5825.6	5168.1
40°	5771.0	5798.3	5593.9	5420.2	5243.0	5294.1	5815.3	6721.5	6776.0	6980.4	6186.7
42.5°	6643.2	6670.4	6551.2	6340.0	6115.1	6019.7	6609.1	7729.9	7774.2	8057.0	7236.0
45°	7236.0	7256.4	7297.3	7317.7	7062.2	6864.6	7580.0	8765.6	8820.1	9147.1	8261.4
47.5°	7699.3	7716.3	7798.1	8002.5	7951.4	7794.7	8568.0	9842.1	9855.8	10220.3	9259.6
50°	7913.9	7954.8	8155.8	8469.2	8694.0	8738.3	9641.1	10860.7	10898.2	11245.7	10203.2
52.5°	7675.4	7689.1	8196.7	8786.0	9239.1	9688.8	10717.7	11804.4	11913.4	12172.3	11051.5
55°	6871.4	6970.2	7740.2	8775.8	9668.4	10591.6	11869.1	12823.0	12921.8	13085.4	11797.6
57.5°	5938.0	6047.0	6983.9	8336.3	9852.3	11426.3	12935.5	13906.4	13974.5	14018.8	12482.4
60°	5130.6	5232.8	6196.9	7494.9	9668.4	12015.6	13926.8	14982.9	15040.8	14921.6	12826.4
62.5°	4139.2	4241.4	5212.3	6380.9	8946.1	12134.9	14662.7	15940.2	15964.1	15640.4	12615.2
65°	3120.6	3188.7	3999.5	5001.1	7682.2	11501.2	14829.6	16536.4	16512.6	15848.2	11981.6
66°	2796.9	2854.9	3570.3	4422.0	7024.7	10922.1	14604.8	16584.1	16560.2	15694.9	11565.9
67.5°	2412.0	2429.0	3018.4	3618.0	5876.7	9692.2	13920.0	16366.1	16386.5	15272.5	10806.2
70°	1883.9	1880.5	2221.2	2517.6	4013.2	6895.3	11610.2	14993.1	15091.9	13678.1	9215.3
72.5°	1206.0	1165.1	1362.7	1539.9	2337.0	4002.9	8465.8	12220.0	12387.0	10744.9	6864.6
75°	718.8	677.9	725.6	769.9	1120.8	1924.8	4977.3	8315.9	8476.0	6888.5	4084.7
77.5°	538.3	521.2	524.6	487.2	497.4	722.2	2272.3	4394.7	4510.5	2820.8	1550.1
80°	412.2	367.9	344.1	361.1	327.0	286.2	844.9	1512.6	1584.1	667.7	323.6
82.5°	275.9	238.5	221.4	241.9	207.8	160.1	204.4	293.0	286.2	180.6	126.1
85°	143.1	122.6	122.6	122.6	105.6	78.4	88.6	119.2	119.2	95.4	74.9
87.5°	40.9	37.5	44.3	40.9	30.7	30.7	34.1	40.9	40.9	37.5	34.1
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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1526.2	1512.6	1475.1	1447.9	1420.6	1396.8	1369.5	1362.7	1349.1	1352.5	1345.7
5°	1536.4	1499.0	1434.2	1372.9	1325.2	1284.3	1233.2	1212.8	1185.6	1175.3	1168.5
7.5°	1550.1	1495.6	1400.2	1315.0	1233.2	1151.5	1069.7	1022.0	991.4	977.7	967.5
10°	1580.7	1509.2	1383.1	1250.3	1110.6	994.8	913.0	878.9	858.5	855.1	851.7
12.5°	1621.6	1529.6	1366.1	1168.5	984.6	875.5	824.4	814.2	810.8	810.8	807.4
15°	1682.9	1563.7	1338.9	1073.1	885.8	810.8	787.0	769.9	763.1	763.1	763.1
17.5°	1744.3	1604.6	1298.0	974.3	817.6	769.9	746.1	735.9	729.0	732.5	729.0
20°	1822.6	1652.3	1243.5	889.2	773.3	735.9	712.0	701.8	698.4	698.4	698.4
22.5°	1911.2	1706.8	1175.3	824.4	735.9	701.8	677.9	667.7	660.9	664.3	664.3
25°	2030.4	1774.9	1103.8	759.7	698.4	667.7	640.5	626.8	626.8	630.3	633.7
27.5°	2183.7	1856.7	1032.2	718.8	664.3	633.7	603.0	589.4	592.8	599.6	599.6
30°	2408.6	1969.1	960.7	674.5	626.8	592.8	565.5	551.9	558.7	572.3	572.3
32.5°	2728.8	2153.1	899.4	623.4	572.3	534.9	507.6	497.4	514.4	541.7	541.7
35°	3301.1	2490.3	861.9	572.3	514.4	470.1	436.1	425.8	449.7	483.8	483.8
37.5°	4067.7	3032.0	875.5	528.0	466.7	415.6	378.2	364.5	381.6	412.2	422.4
40°	4922.8	3686.1	994.8	490.6	422.4	371.3	333.9	320.2	330.5	344.1	347.5
42.5°	5777.9	4381.1	1219.6	463.3	388.4	333.9	299.8	289.6	296.4	299.8	303.2
45°	6629.6	5069.3	1502.4	446.3	357.7	303.2	269.1	269.1	272.5	272.5	272.5
47.5°	7437.0	5740.4	1798.8	442.9	330.5	272.5	245.3	248.7	248.7	252.1	252.1
50°	8200.1	6340.0	2098.6	453.1	306.6	245.3	224.8	224.8	224.8	228.3	224.8
52.5°	8837.1	6864.6	2412.0	470.1	282.8	224.8	204.4	204.4	204.4	207.8	204.4
55°	9440.1	7341.6	2732.2	494.0	262.3	207.8	187.4	180.6	180.6	184.0	180.6
57.5°	9930.7	7658.4	3035.4	497.4	245.3	190.8	173.7	163.5	163.5	163.5	163.5
60°	9951.1	7474.4	3124.0	436.1	224.8	173.7	156.7	143.1	146.5	146.5	146.5
62.5°	9300.4	6506.9	2510.8	327.0	201.0	156.7	143.1	129.5	129.5	129.5	129.5
65°	8022.9	5062.4	1471.7	258.9	173.7	139.7	126.1	115.8	115.8	115.8	112.4
66°	7423.3	4439.0	1127.6	235.1	163.5	136.3	122.6	112.4	109.0	105.6	105.6
67.5°	6445.6	3509.0	705.2	207.8	149.9	126.1	112.4	102.2	98.8	95.4	95.4
70°	4854.6	2228.0	344.1	160.1	129.5	109.0	98.8	88.6	85.2	81.8	78.4
72.5°	3406.8	1304.8	180.6	122.6	105.6	95.4	85.2	74.9	71.5	68.1	68.1
75°	1924.8	630.3	119.2	88.6	85.2	78.4	71.5	61.3	57.9	57.9	57.9
77.5°	729.0	218.0	81.8	64.7	68.1	61.3	51.1	51.1	47.7	51.1	47.7
80°	190.8	95.4	51.1	47.7	51.1	44.3	37.5	40.9	40.9	40.9	40.9
82.5°	102.2	54.5	30.7	34.1	30.7	30.7	23.8	27.3	30.7	27.3	30.7
85°	71.5	27.3	17.0	17.0	13.6	13.6	10.2	13.6	17.0	13.6	13.6
87.5°	37.5	10.2	10.2	10.2	10.2	6.8	3.4	0.0	3.4	3.4	3.4
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)