

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: P572656

Luminaire Tested: **ARCH-S-PA2-100-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572656
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12511 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

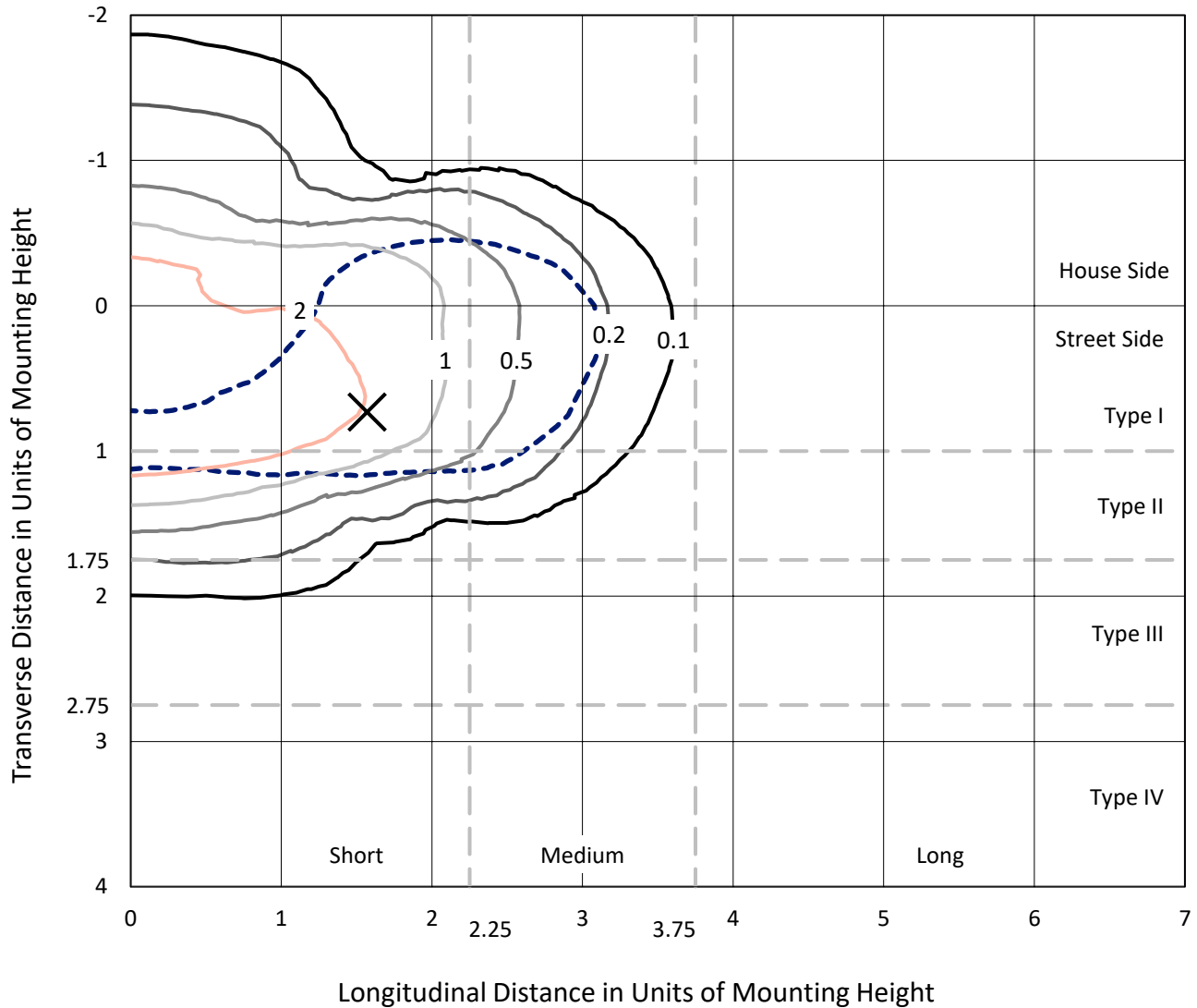
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

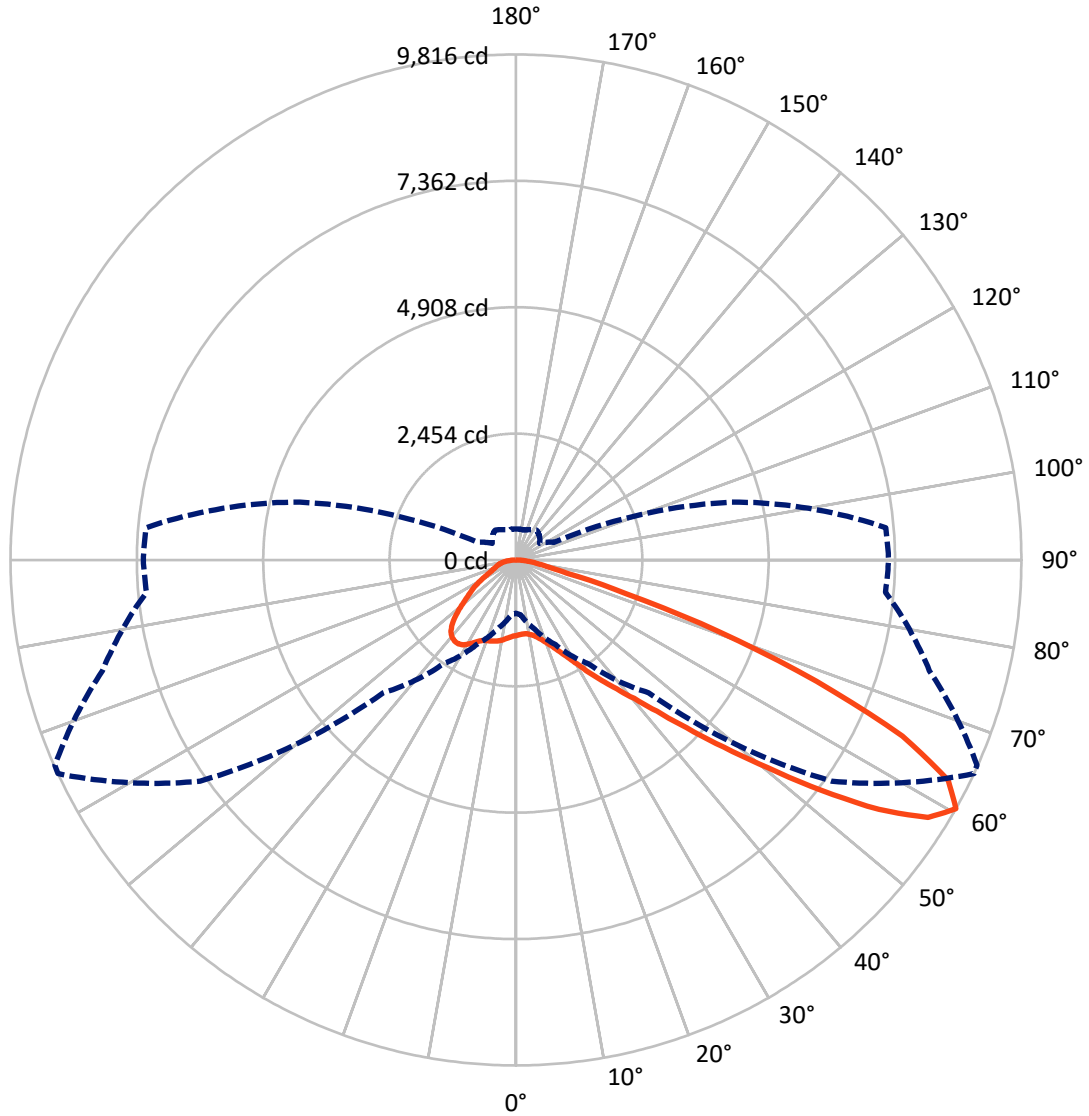
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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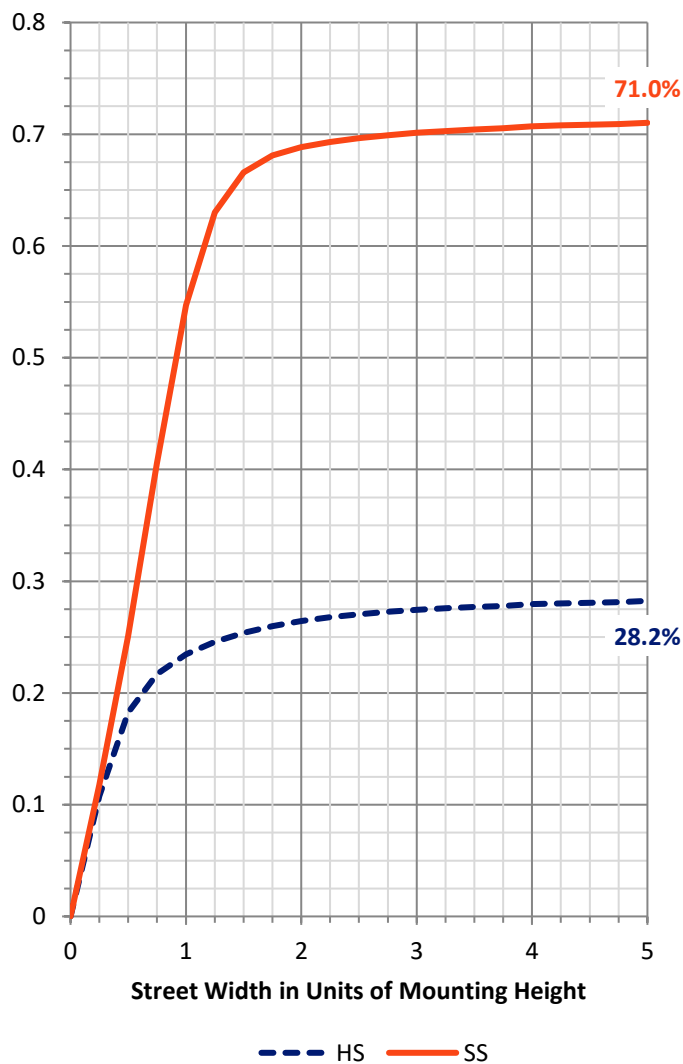
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3581.5	0.0	3581.5
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8929.5	0.0	8929.5
	% Fixture	71.4	0.0	71.4
Total	Lumens	12511.0	0.0	12511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.1
10°-20°	456.4	3.6
20°-30°	875.0	7.0
30°-40°	1519.7	12.1
40°-50°	2577.3	20.6
50°-60°	3209.3	25.7
60°-70°	2586.1	20.7
70°-80°	979.3	7.8
80°-90°	166.1	1.3
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°	12511.0	100.0
0°-180°	12511.0	100.0

Coefficient of Utilization



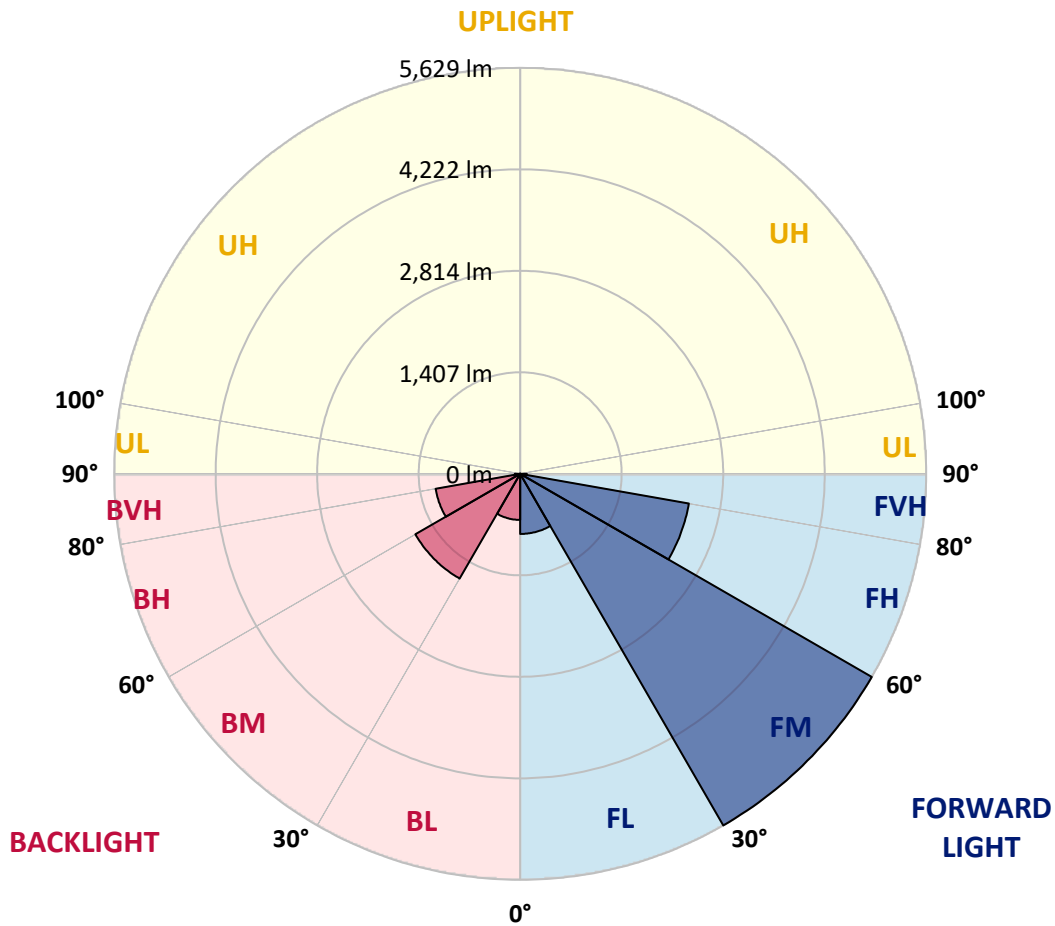
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.1	6.7			
FM (30°-60°)	5628.7	45.0			
FH (60°-80°)	2374.5	19.0			G2/5000
FVH (80°-90°)	92.1	0.7			G1/100
BL (0°-30°)	639.2	5.1	B2/1000		
BM (30°-60°)	1677.5	13.4	B2/2500		
BH (60°-80°)	1190.8	9.5	B3/2500		G3/2500
BVH (80°-90°)	74.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9
2.5°	1433.6	1433.6	1433.6	1437.0	1440.5	1443.9	1450.8	1450.8	1450.8	1454.2	1461.1
5°	1406.2	1402.8	1406.2	1409.6	1416.5	1423.3	1437.0	1443.9	1443.9	1457.6	1471.3
7.5°	1409.6	1402.8	1402.8	1406.2	1413.0	1419.9	1433.6	1443.9	1447.3	1464.5	1488.5
10°	1443.9	1433.6	1433.6	1437.0	1437.0	1443.9	1454.2	1467.9	1471.3	1488.5	1512.5
12.5°	1515.9	1505.6	1502.2	1491.9	1481.6	1488.5	1498.8	1502.2	1505.6	1515.9	1539.9
15°	1666.8	1649.7	1622.3	1601.7	1574.2	1557.1	1553.7	1557.1	1557.1	1560.5	1574.2
17.5°	1882.9	1862.3	1821.2	1776.6	1711.4	1656.6	1639.4	1625.7	1625.7	1615.4	1615.4
20°	2147.0	2116.1	2068.1	2003.0	1906.9	1807.5	1749.2	1718.3	1708.0	1690.8	1666.8
22.5°	2452.2	2431.7	2369.9	2270.5	2126.4	1992.7	1896.6	1828.0	1828.0	1786.9	1735.4
25°	2812.4	2774.6	2702.6	2586.0	2390.5	2198.4	2068.1	1968.7	1958.4	1893.2	1810.9
27.5°	3162.2	3138.2	3049.0	2894.7	2661.5	2438.5	2256.8	2140.1	2123.0	2020.1	1893.2
30°	3587.5	3560.0	3426.3	3210.2	2959.8	2706.0	2493.4	2342.5	2325.3	2184.7	2006.4
32.5°	4115.7	4023.1	3858.4	3611.5	3289.1	3004.4	2760.9	2599.7	2579.1	2417.9	2205.3
35°	4757.0	4678.1	4393.5	4132.8	3748.7	3374.8	3083.3	2870.7	2843.2	2651.2	2383.6
37.5°	5209.7	5172.0	4976.5	4770.7	4331.7	3827.6	3470.9	3175.9	3148.5	2894.7	2548.3
40°	5494.4	5456.7	5401.8	5343.5	5100.0	4530.6	3937.3	3536.0	3491.4	3251.4	2877.5
42.5°	5641.9	5611.0	5621.3	5737.9	5806.5	5717.3	4602.7	4016.2	3985.3	3693.8	3278.8
45°	5556.1	5535.6	5635.0	5943.7	6279.8	6938.3	5456.7	4647.3	4564.9	4218.5	3765.8
47.5°	5144.6	5082.8	5316.1	5840.8	6561.0	7521.4	6485.6	5425.8	5336.6	4839.3	4259.7
50°	4297.4	4280.3	4599.2	5264.6	6451.3	7751.1	7586.5	6345.0	6279.8	5508.1	4808.5
52.5°	3508.6	3501.7	3748.7	4359.2	5751.6	7590.0	8385.6	7439.0	7243.6	6180.3	5405.2
55°	2723.2	2719.8	2939.3	3395.4	4589.0	6832.0	8762.9	8553.7	8409.7	6914.3	6019.1
57.5°	1862.3	1838.3	2123.0	2469.4	3446.9	5412.1	8516.0	9435.1	9346.0	7692.8	6670.8
60°	1035.8	1070.1	1385.6	1814.3	2466.0	3645.8	7487.1	9815.8	9802.1	8313.6	7202.4
62.5°	734.0	747.7	881.4	1289.6	1622.3	2088.7	5775.6	9421.4	9531.2	8656.6	7504.2
65°	610.5	617.3	682.5	953.5	1186.7	1207.3	3601.2	8251.9	8395.9	8550.3	7569.4
67.5°	576.2	579.6	613.9	703.1	929.5	874.6	1608.5	6300.4	6605.6	7692.8	7144.1
70°	524.7	528.2	579.6	620.8	751.1	689.4	826.6	4184.2	4595.8	6080.9	6159.8
72.5°	449.3	459.6	500.7	583.1	610.5	572.8	637.9	2236.2	2644.3	4067.6	4757.0
75°	387.6	394.4	425.3	493.9	572.8	456.2	541.9	1018.6	1193.5	2387.1	3011.3
77.5°	312.1	315.5	360.1	404.7	480.2	370.4	421.9	610.5	641.4	1166.1	1361.6
80°	236.7	236.7	267.5	322.4	356.7	356.7	308.7	425.3	442.4	555.6	538.5
82.5°	181.8	178.3	202.4	226.4	257.2	298.4	233.2	281.2	288.1	336.1	288.1
85°	120.0	120.0	133.8	154.3	171.5	164.6	181.8	164.6	171.5	209.2	157.8
87.5°	51.4	51.4	72.0	68.6	75.5	78.9	89.2	78.9	78.9	96.0	72.0
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°	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9	1467.9
2.5°	1464.5	1467.9	1474.8	1478.2	1488.5	1491.9	1491.9	1498.8	1498.8	1505.6	1505.6
5°	1474.8	1485.1	1495.4	1505.6	1515.9	1519.4	1526.2	1529.7	1529.7	1536.5	1533.1
7.5°	1495.4	1505.6	1526.2	1536.5	1550.2	1557.1	1553.7	1557.1	1553.7	1557.1	1557.1
10°	1522.8	1536.5	1560.5	1574.2	1584.5	1588.0	1577.7	1567.4	1553.7	1553.7	1553.7
12.5°	1553.7	1563.9	1594.8	1605.1	1612.0	1601.7	1574.2	1553.7	1543.4	1546.8	1543.4
15°	1584.5	1594.8	1618.8	1629.1	1629.1	1598.2	1574.2	1567.4	1563.9	1567.4	1567.4
17.5°	1615.4	1625.7	1646.3	1646.3	1636.0	1612.0	1588.0	1563.9	1546.8	1536.5	1536.5
20°	1656.6	1656.6	1663.4	1663.4	1660.0	1622.3	1563.9	1505.6	1471.3	1450.8	1447.3
22.5°	1711.4	1697.7	1684.0	1684.0	1697.7	1598.2	1485.1	1395.9	1341.0	1334.2	1320.4
25°	1769.7	1738.9	1704.6	1728.6	1704.6	1536.5	1375.3	1255.3	1190.1	1166.1	1173.0
27.5°	1831.5	1783.5	1732.0	1800.6	1670.3	1416.5	1221.0	1087.2	1025.5	1008.3	1008.3
30°	1917.2	1845.2	1769.7	1876.1	1605.1	1279.3	1039.2	943.2	908.9	895.2	891.7
32.5°	2081.8	1972.1	1862.3	1944.6	1533.1	1100.9	915.7	857.4	816.3	802.6	812.8
35°	2229.3	2075.0	2003.0	1975.5	1419.9	956.9	840.3	788.8	754.5	737.4	737.4
37.5°	2363.1	2215.6	2160.7	1975.5	1272.4	867.7	792.3	751.1	706.5	692.8	692.8
40°	2654.6	2459.1	2363.1	1948.1	1090.6	823.1	768.3	720.2	682.5	668.8	665.4
42.5°	3055.9	2791.8	2572.3	1886.3	936.3	802.6	754.5	699.7	668.8	658.5	655.1
45°	3481.2	3247.9	2771.2	1776.6	836.8	782.0	751.1	692.8	655.1	644.8	641.4
47.5°	3995.6	3755.5	3001.0	1608.5	768.3	768.3	747.7	682.5	648.2	637.9	637.9
50°	4564.9	4366.0	3292.5	1416.5	716.8	758.0	740.8	682.5	644.8	634.5	631.1
52.5°	5148.0	5055.4	3597.8	1227.8	665.4	744.2	737.4	682.5	637.9	627.6	627.6
55°	5888.8	5813.4	3951.0	1087.2	624.2	716.8	737.4	675.7	627.6	620.8	620.8
57.5°	6615.9	6588.5	4225.4	963.7	593.3	682.5	727.1	665.4	617.3	613.9	613.9
60°	7236.7	7209.3	4342.0	809.4	562.5	648.2	706.5	648.2	600.2	603.6	603.6
62.5°	7620.8	7463.1	4256.3	668.8	531.6	617.3	682.5	627.6	583.1	593.3	589.9
65°	7689.4	7322.4	3923.6	559.0	497.3	583.1	655.1	603.6	559.0	583.1	579.6
67.5°	7185.2	6574.8	3299.4	487.0	463.0	545.3	624.2	569.3	531.6	565.9	555.6
70°	6094.6	5340.1	2442.0	432.1	428.7	500.7	583.1	528.2	493.9	511.0	497.3
72.5°	4537.5	3855.0	1581.1	391.0	391.0	449.3	524.7	476.7	442.4	445.9	432.1
75°	2829.5	2369.9	898.6	353.3	353.3	397.8	466.4	418.4	394.4	380.7	397.8
77.5°	1286.1	1042.6	473.3	315.5	319.0	339.5	401.3	356.7	329.3	308.7	319.0
80°	476.7	425.3	308.7	270.9	277.8	281.2	322.4	284.7	260.7	246.9	240.1
82.5°	246.9	229.8	209.2	216.1	226.4	216.1	250.4	212.6	185.2	174.9	147.5
85°	123.5	120.0	126.9	144.0	157.8	133.8	150.9	137.2	113.2	82.3	82.3
87.5°	48.0	51.4	48.0	65.2	72.0	61.7	68.6	48.0	34.3	17.1	13.7
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)