

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: P573547

Luminaire Tested: **ARCH-S-PA2-90-730-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573547
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-PA2-90-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11550 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

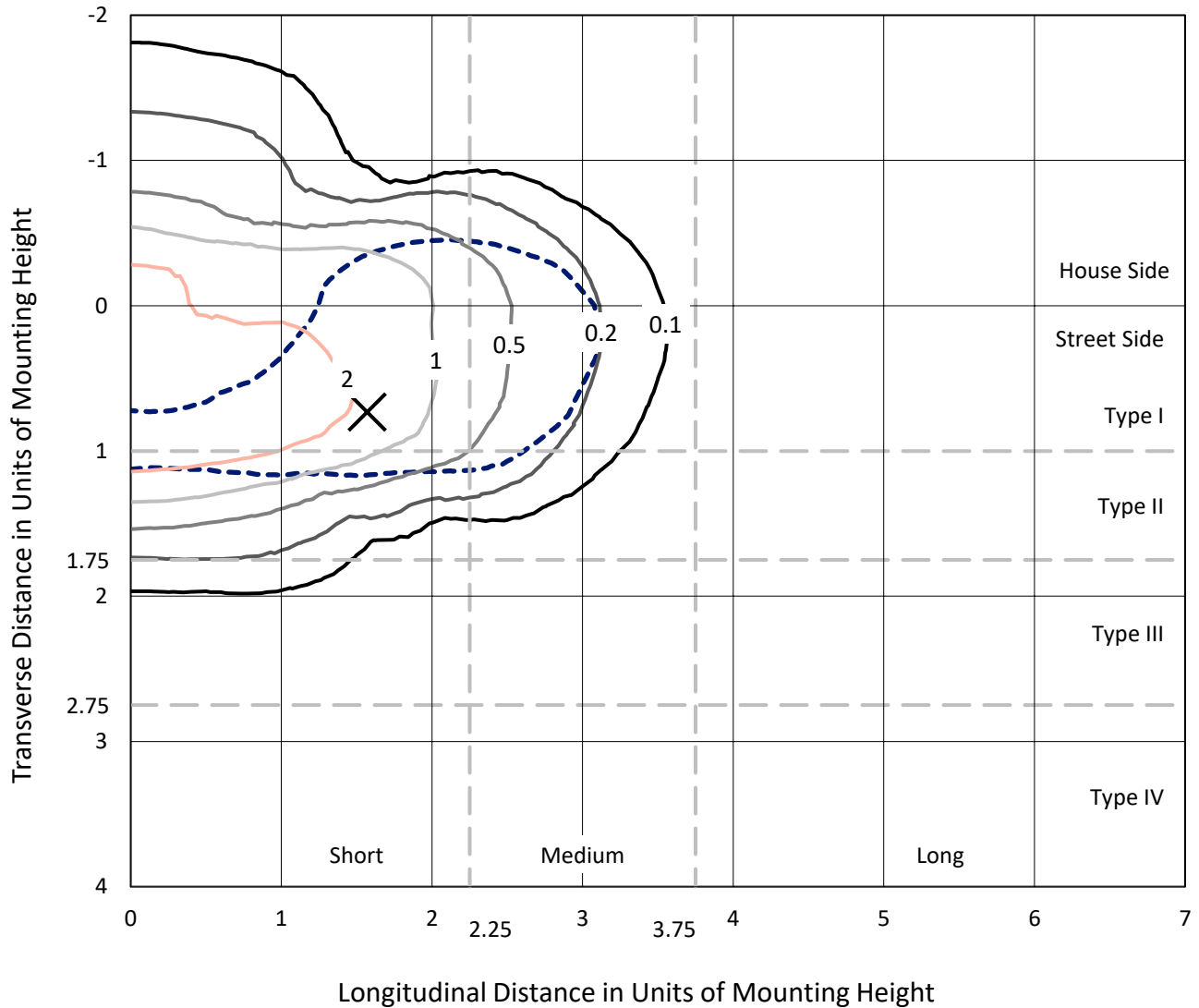
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

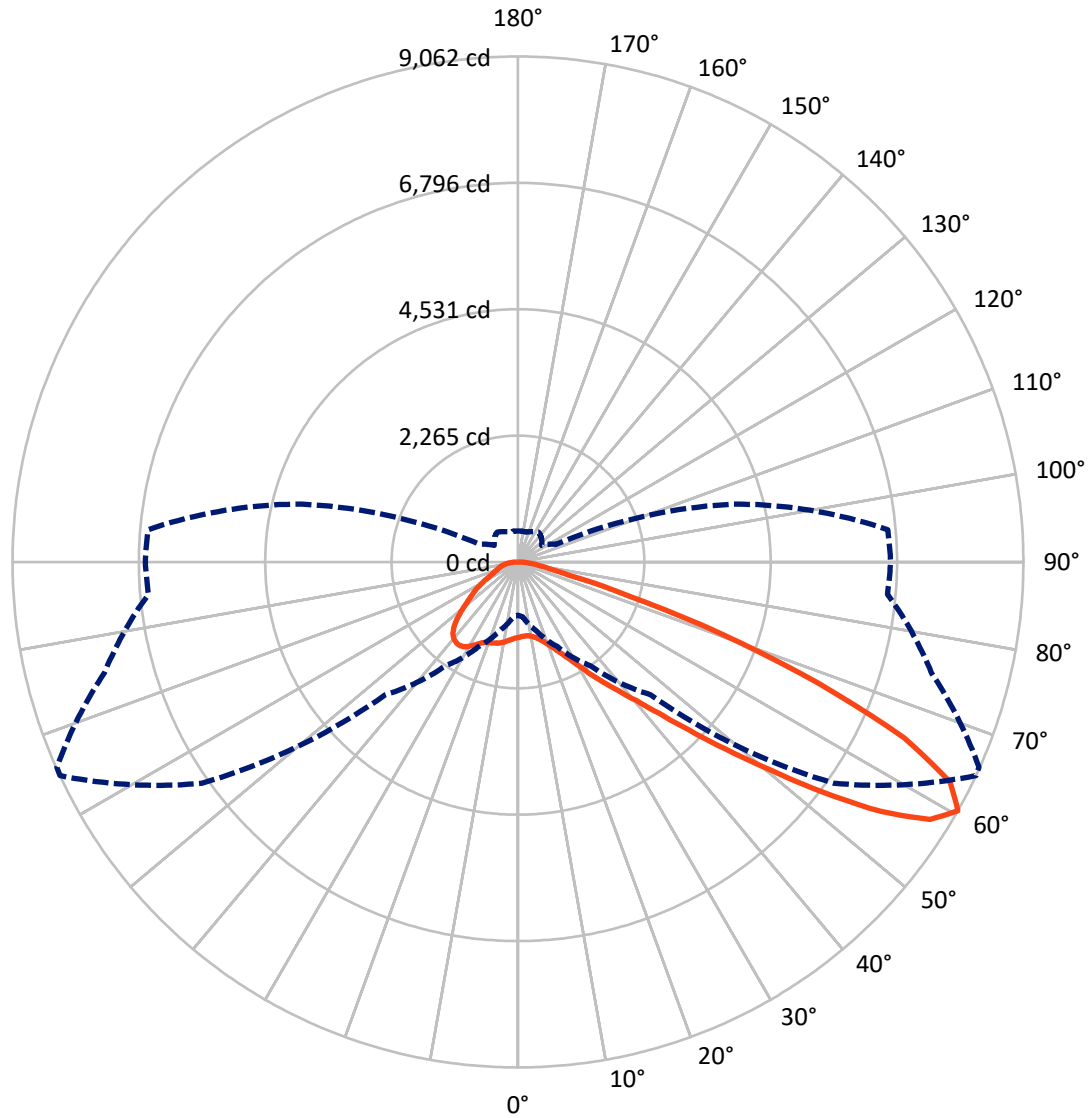
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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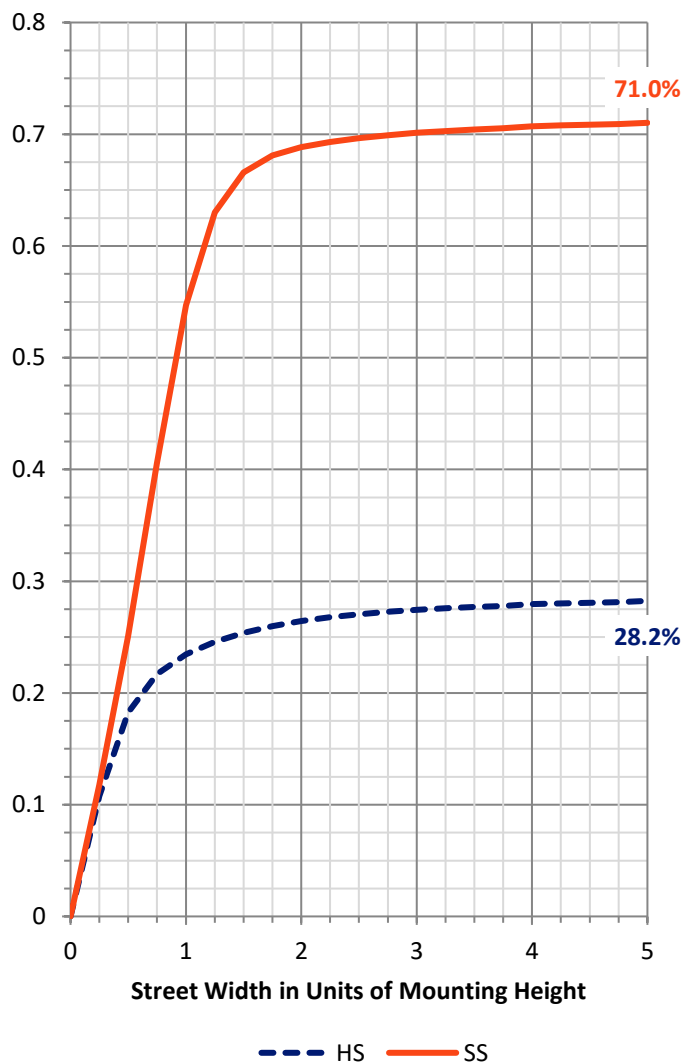
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3306.4	0.0	3306.4
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	8243.6	0.0	8243.6
	% Fixture	71.4	0.0	71.4
Total	Lumens	11550.0	0.0	11550.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.1
10°-20°	421.4	3.6
20°-30°	807.8	7.0
30°-40°	1402.9	12.1
40°-50°	2379.3	20.6
50°-60°	2962.8	25.7
60°-70°	2387.5	20.7
70°-80°	904.1	7.8
80°-90°	153.3	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°	11550.0	100.0
0°-180°	11550.0	100.0



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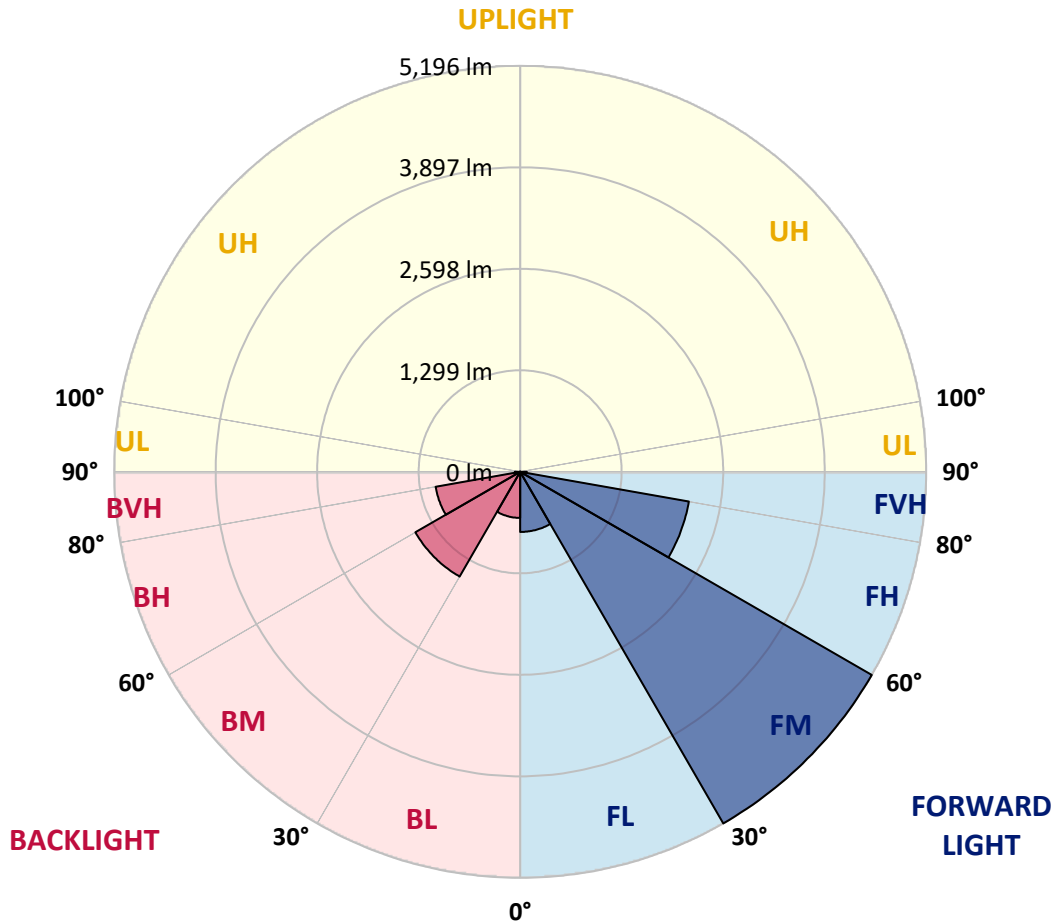
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.0	6.7			
FM (30°-60°)	5196.4	45.0			
FH (60°-80°)	2192.1	19.0			G2/5000
FVH (80°-90°)	85.1	0.7			G1/100
BL (0°-30°)	590.1	5.1	B2/1000		
BM (30°-60°)	1548.7	13.4	B2/2500		
BH (60°-80°)	1099.4	9.5	B3/2500		G3/2500
BVH (80°-90°)	68.3	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°	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2
2.5°	1323.5	1323.5	1323.5	1326.7	1329.8	1333.0	1339.3	1339.3	1339.3	1342.5	1348.8
5°	1298.2	1295.0	1298.2	1301.3	1307.7	1314.0	1326.7	1333.0	1333.0	1345.7	1358.3
7.5°	1301.3	1295.0	1295.0	1298.2	1304.5	1310.8	1323.5	1333.0	1336.2	1352.0	1374.2
10°	1333.0	1323.5	1323.5	1326.7	1326.7	1333.0	1342.5	1355.2	1358.3	1374.2	1396.3
12.5°	1399.5	1390.0	1386.8	1377.3	1367.8	1374.2	1383.7	1386.8	1390.0	1399.5	1421.7
15°	1538.8	1523.0	1497.6	1478.6	1453.3	1437.5	1434.3	1437.5	1437.5	1440.7	1453.3
17.5°	1738.3	1719.3	1681.3	1640.1	1580.0	1529.3	1513.5	1500.8	1500.8	1491.3	1491.3
20°	1982.1	1953.6	1909.3	1849.1	1760.4	1668.6	1614.8	1586.3	1576.8	1561.0	1538.8
22.5°	2263.9	2244.9	2187.9	2096.1	1963.1	1839.6	1750.9	1687.6	1687.6	1649.6	1602.1
25°	2596.3	2561.5	2495.0	2387.4	2206.9	2029.6	1909.3	1817.4	1807.9	1747.8	1671.8
27.5°	2919.3	2897.1	2814.8	2672.3	2457.0	2251.2	2083.4	1975.8	1959.9	1864.9	1747.8
30°	3311.9	3286.6	3163.1	2963.6	2732.5	2498.2	2301.9	2162.6	2146.7	2016.9	1852.3
32.5°	3799.5	3714.0	3562.1	3334.1	3036.5	2773.7	2548.8	2400.0	2381.0	2232.2	2035.9
35°	4391.6	4318.8	4056.0	3815.4	3460.7	3115.6	2846.5	2650.2	2624.8	2447.5	2200.6
37.5°	4809.6	4774.7	4594.3	4404.3	3999.0	3533.6	3204.3	2932.0	2906.6	2672.3	2352.5
40°	5072.4	5037.5	4986.9	4933.0	4708.2	4182.6	3634.9	3264.4	3223.3	3001.6	2656.5
42.5°	5208.5	5180.0	5189.5	5297.2	5360.5	5278.2	4249.1	3707.7	3679.2	3410.1	3027.0
45°	5129.4	5110.4	5202.2	5487.1	5797.4	6405.4	5037.5	4290.3	4214.3	3894.5	3476.6
47.5°	4749.4	4692.4	4907.7	5392.2	6057.1	6943.6	5987.4	5009.0	4926.7	4467.6	3932.5
50°	3967.3	3951.5	4246.0	4860.2	5955.7	7155.8	7003.8	5857.6	5797.4	5085.0	4439.1
52.5°	3239.1	3232.8	3460.7	4024.3	5309.8	7006.9	7741.5	6867.6	6687.2	5705.6	4990.0
55°	2514.0	2510.8	2713.5	3134.6	4236.5	6307.2	8089.8	7896.7	7763.7	6383.2	5556.8
57.5°	1719.3	1697.1	1959.9	2279.7	3182.1	4996.4	7861.8	8710.4	8628.1	7101.9	6158.4
60°	956.2	987.9	1279.2	1675.0	2276.5	3365.7	6912.0	9061.9	9049.2	7675.0	6649.2
62.5°	677.6	690.2	813.7	1190.5	1497.6	1928.3	5332.0	8697.7	8799.1	7991.7	6927.8
65°	563.6	569.9	630.1	880.2	1095.5	1114.5	3324.6	7618.0	7751.0	7893.5	6988.0
67.5°	531.9	535.1	566.8	649.1	858.1	807.4	1485.0	5816.4	6098.2	7101.9	6595.3
70°	484.4	487.6	535.1	573.1	693.4	636.4	763.1	3862.8	4242.8	5613.8	5686.6
72.5°	414.8	424.3	462.3	538.3	563.6	528.8	588.9	2064.4	2441.2	3755.2	4391.6
75°	357.8	364.1	392.6	455.9	528.8	421.1	500.3	940.4	1101.9	2203.7	2780.0
77.5°	288.1	291.3	332.5	373.6	443.3	342.0	389.5	563.6	592.1	1076.5	1257.0
80°	218.5	218.5	247.0	297.6	329.3	329.3	285.0	392.6	408.4	512.9	497.1
82.5°	167.8	164.6	186.8	209.0	237.5	275.5	215.3	259.6	266.0	310.3	266.0
85°	110.8	110.8	123.5	142.5	158.3	152.0	167.8	152.0	158.3	193.1	145.6
87.5°	47.5	47.5	66.5	63.3	69.7	72.8	82.3	72.8	72.8	88.7	66.5
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°	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2	1355.2
2.5°	1352.0	1355.2	1361.5	1364.7	1374.2	1377.3	1377.3	1383.7	1383.7	1390.0	1390.0
5°	1361.5	1371.0	1380.5	1390.0	1399.5	1402.7	1409.0	1412.2	1412.2	1418.5	1415.3
7.5°	1380.5	1390.0	1409.0	1418.5	1431.2	1437.5	1434.3	1437.5	1434.3	1437.5	1437.5
10°	1405.8	1418.5	1440.7	1453.3	1462.8	1466.0	1456.5	1447.0	1434.3	1434.3	1434.3
12.5°	1434.3	1443.8	1472.3	1481.8	1488.1	1478.6	1453.3	1434.3	1424.8	1428.0	1424.8
15°	1462.8	1472.3	1494.5	1504.0	1504.0	1475.5	1453.3	1447.0	1443.8	1447.0	1447.0
17.5°	1491.3	1500.8	1519.8	1519.8	1510.3	1488.1	1466.0	1443.8	1428.0	1418.5	1418.5
20°	1529.3	1529.3	1535.6	1535.6	1532.5	1497.6	1443.8	1390.0	1358.3	1339.3	1336.2
22.5°	1580.0	1567.3	1554.6	1554.6	1567.3	1475.5	1371.0	1288.7	1238.0	1231.7	1219.0
25°	1633.8	1605.3	1573.6	1595.8	1573.6	1418.5	1269.7	1158.9	1098.7	1076.5	1082.9
27.5°	1690.8	1646.5	1599.0	1662.3	1542.0	1307.7	1127.2	1003.7	946.7	930.9	930.9
30°	1769.9	1703.5	1633.8	1731.9	1481.8	1181.0	959.4	870.7	839.1	826.4	823.2
32.5°	1921.9	1820.6	1719.3	1795.3	1415.3	1016.4	845.4	791.6	753.6	740.9	750.4
35°	2058.1	1915.6	1849.1	1823.8	1310.8	883.4	775.7	728.2	696.6	680.7	680.7
37.5°	2181.6	2045.4	1994.7	1823.8	1174.7	801.1	731.4	693.4	652.3	639.6	639.6
40°	2450.7	2270.2	2181.6	1798.4	1006.9	759.9	709.2	664.9	630.1	617.4	614.3
42.5°	2821.1	2577.3	2374.7	1741.4	864.4	740.9	696.6	645.9	617.4	607.9	604.8
45°	3213.8	2998.5	2558.3	1640.1	772.6	721.9	693.4	639.6	604.8	595.3	592.1
47.5°	3688.7	3467.1	2770.5	1485.0	709.2	709.2	690.2	630.1	598.4	588.9	588.9
50°	4214.3	4030.7	3039.6	1307.7	661.7	699.7	683.9	630.1	595.3	585.8	582.6
52.5°	4752.6	4667.1	3321.4	1133.5	614.3	687.1	680.7	630.1	588.9	579.4	579.4
55°	5436.5	5366.8	3647.5	1003.7	576.3	661.7	680.7	623.8	579.4	573.1	573.1
57.5°	6107.7	6082.4	3900.8	889.7	547.8	630.1	671.2	614.3	569.9	566.8	566.8
60°	6680.8	6655.5	4008.5	747.2	519.3	598.4	652.3	598.4	554.1	557.3	557.3
62.5°	7035.4	6889.8	3929.3	617.4	490.8	569.9	630.1	579.4	538.3	547.8	544.6
65°	7098.8	6760.0	3622.2	516.1	459.1	538.3	604.8	557.3	516.1	538.3	535.1
67.5°	6633.3	6069.7	3045.9	449.6	427.4	503.4	576.3	525.6	490.8	522.4	512.9
70°	5626.5	4929.9	2254.4	398.9	395.8	462.3	538.3	487.6	455.9	471.8	459.1
72.5°	4189.0	3558.9	1459.6	361.0	361.0	414.8	484.4	440.1	408.4	411.6	398.9
75°	2612.2	2187.9	829.6	326.1	326.1	367.3	430.6	386.3	364.1	351.5	367.3
77.5°	1187.4	962.5	436.9	291.3	294.5	313.5	370.5	329.3	304.0	285.0	294.5
80°	440.1	392.6	285.0	250.1	256.5	259.6	297.6	262.8	240.6	228.0	221.6
82.5°	228.0	212.1	193.1	199.5	209.0	199.5	231.1	196.3	171.0	161.5	136.1
85°	114.0	110.8	117.2	133.0	145.6	123.5	139.3	126.7	104.5	76.0	76.0
87.5°	44.3	47.5	44.3	60.2	66.5	57.0	63.3	44.3	31.7	15.8	12.7
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)