

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: P237206

Luminaire Tested: **ARCH-L-AF72-130-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13280 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G3

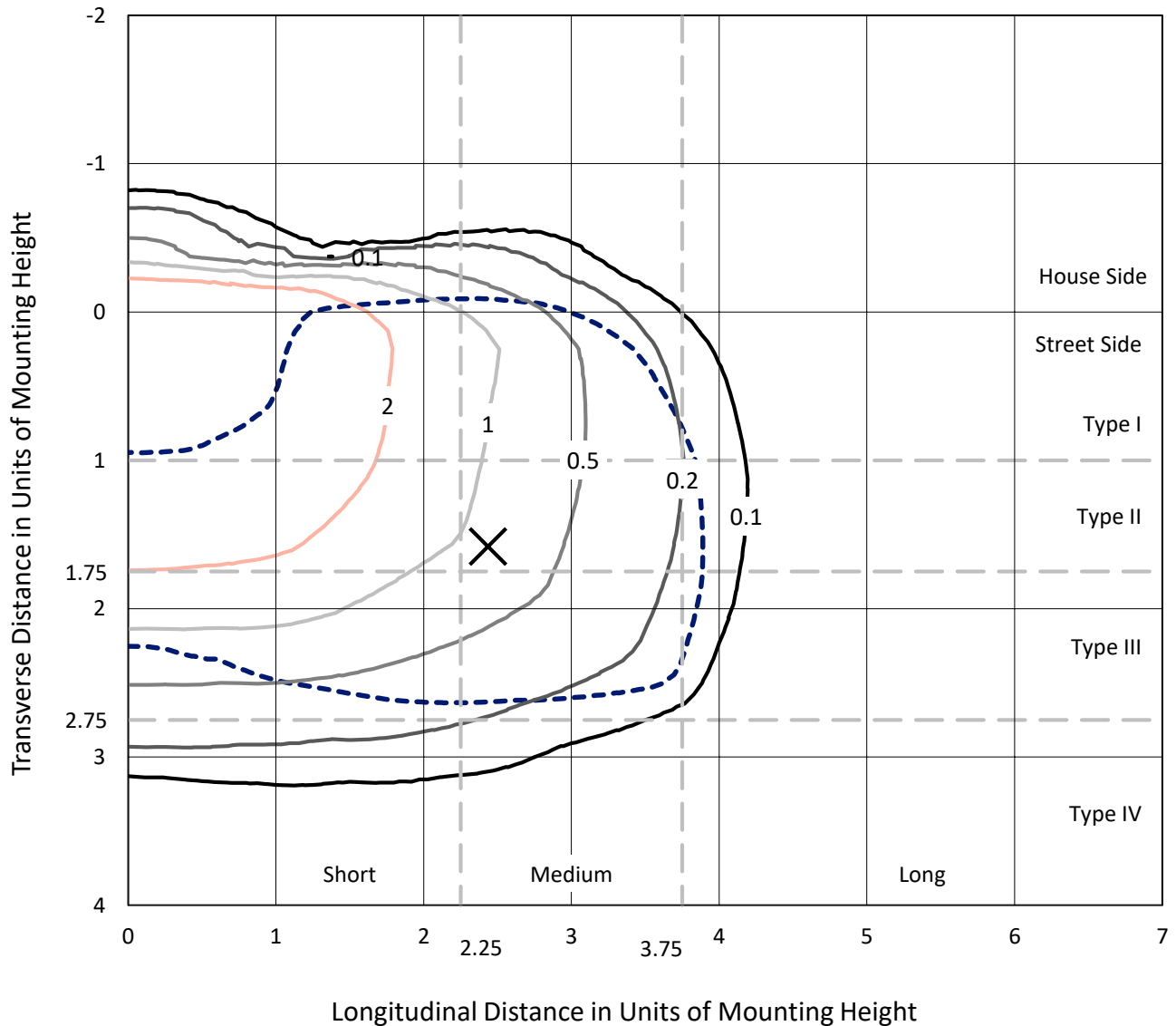
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

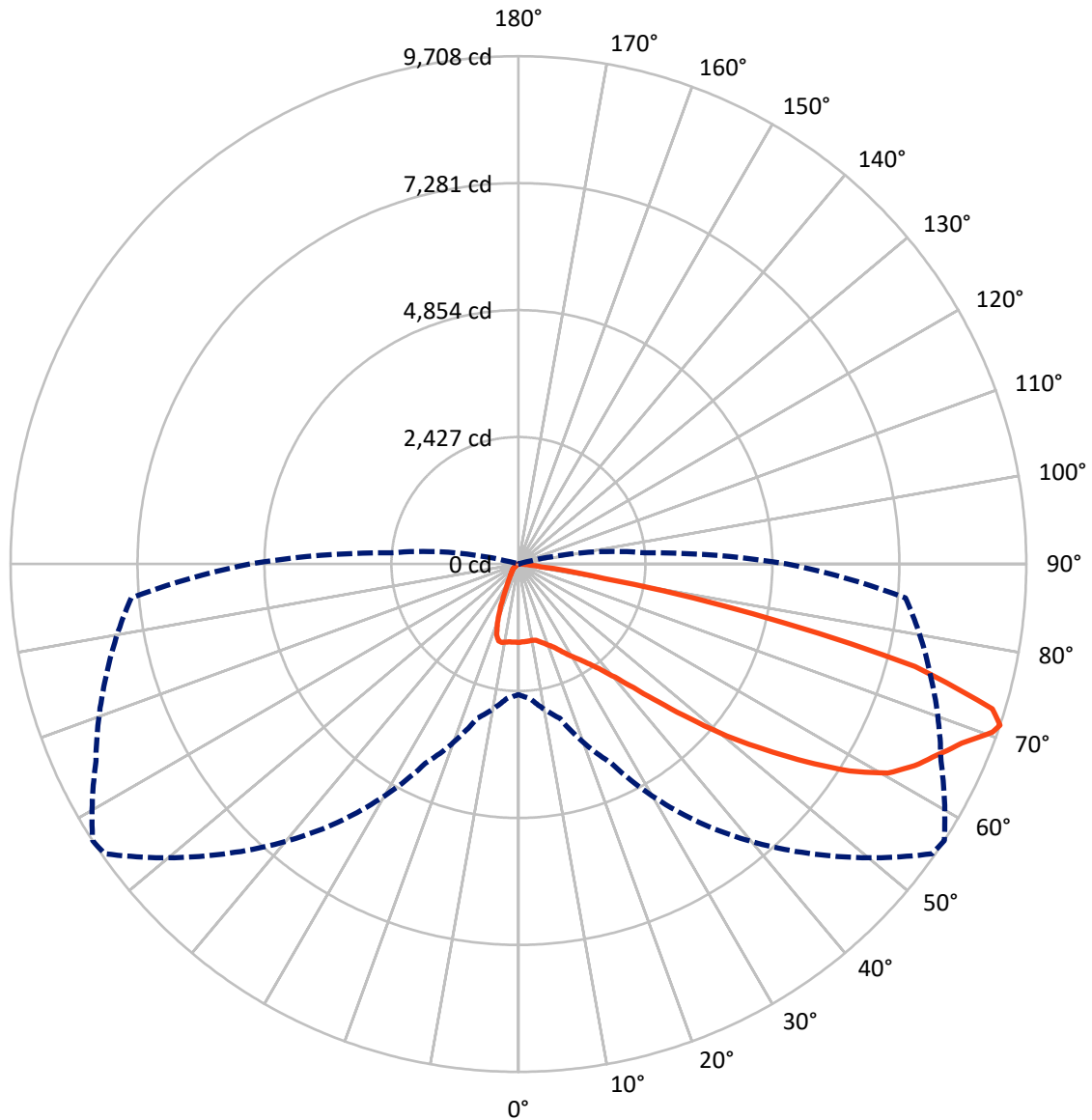


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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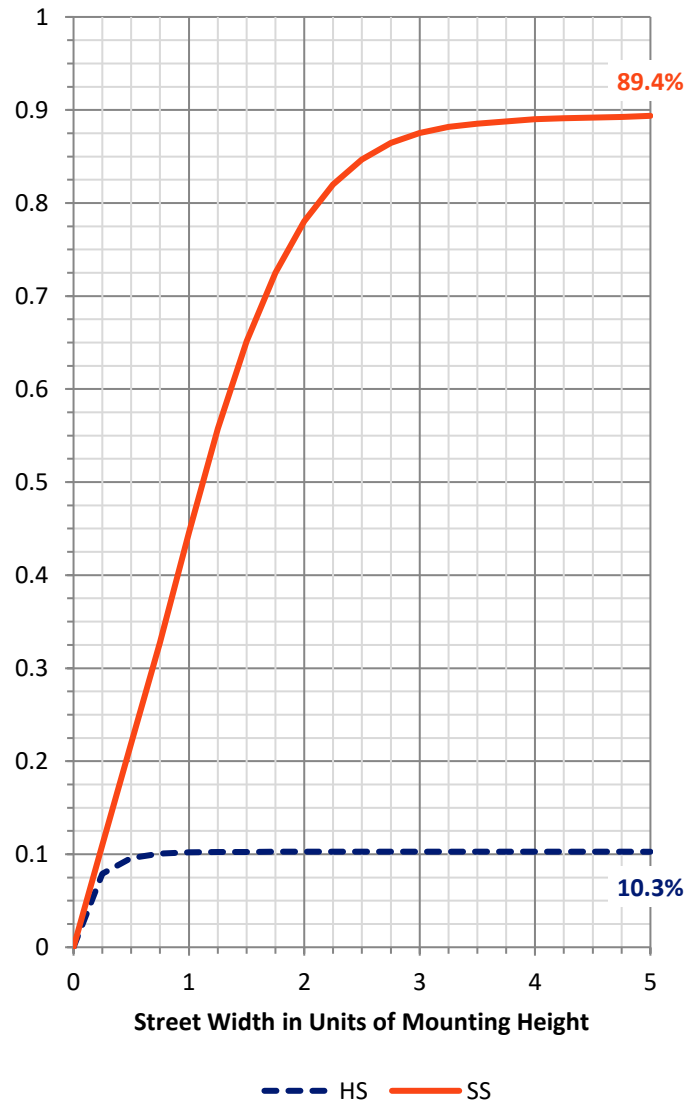
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1376.2	0.0	1376.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11903.7	0.0	11903.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	13280.0	0.0	13280.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	1.1
10°-20°	376.9	2.8
20°-30°	587.9	4.4
30°-40°	993.7	7.5
40°-50°	1929.9	14.5
50°-60°	3241.0	24.4
60°-70°	3867.8	29.1
70°-80°	2038.4	15.3
80°-90°	103.6	0.8
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°	13280.0	100.0
0°-180°	13280.0	100.0



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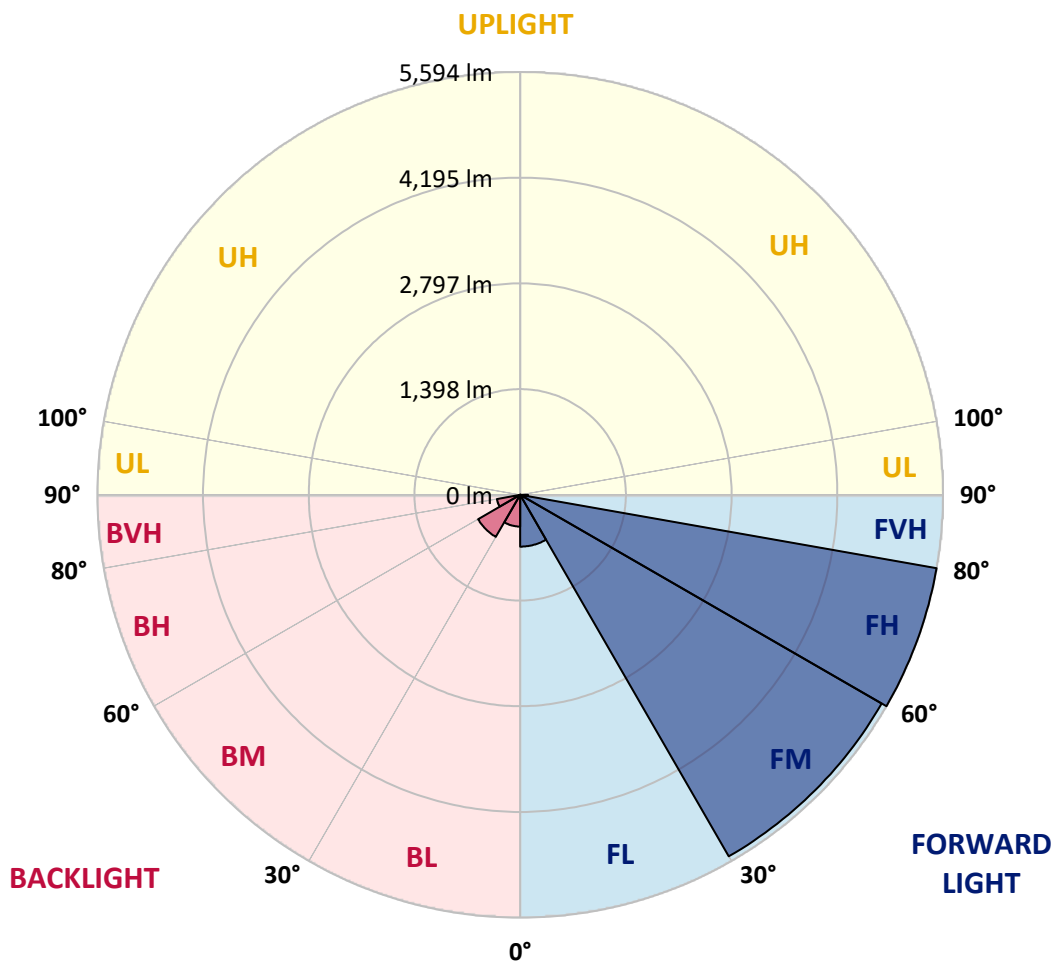
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.6	5.2			
FM	(30°-60°)	5521.9	41.6			
FH	(60°-80°)	5593.6	42.1			G3/7500
FVH	(80°-90°)	102.6	0.8			G2/225
BL	(0°-30°)	420.1	3.2	B1/500		
BM	(30°-60°)	642.6	4.8	B1/1000		
BH	(60°-80°)	312.5	2.4	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1479.2	1479.2	1479.2	1482.3	1485.3	1485.3	1491.6	1488.5	1488.5	1488.5	1494.6
5°	1439.0	1442.1	1445.1	1451.4	1463.7	1472.9	1488.5	1488.5	1491.6	1497.7	1500.9
7.5°	1383.2	1386.3	1395.6	1408.0	1432.7	1454.4	1479.2	1485.3	1494.6	1510.1	1516.3
10°	1349.2	1355.4	1367.8	1383.2	1411.1	1439.0	1469.9	1479.2	1507.0	1534.8	1550.4
12.5°	1340.0	1343.0	1355.4	1380.2	1414.2	1448.2	1488.5	1497.7	1538.0	1581.3	1606.0
15°	1355.4	1358.5	1364.7	1392.5	1432.7	1476.1	1528.7	1541.1	1590.6	1640.1	1671.0
17.5°	1383.2	1383.2	1389.5	1414.2	1457.5	1507.0	1575.1	1593.7	1649.4	1705.1	1739.1
20°	1401.9	1401.9	1411.1	1435.8	1485.3	1550.4	1630.8	1655.5	1717.4	1779.3	1810.3
22.5°	1420.4	1423.4	1432.7	1460.6	1516.3	1606.0	1698.9	1723.7	1794.8	1859.8	1890.7
25°	1472.9	1469.9	1472.9	1497.7	1562.8	1674.2	1791.7	1822.7	1897.0	1968.1	1983.6
27.5°	1618.4	1612.3	1572.0	1556.5	1606.0	1745.3	1909.3	1940.2	2026.9	2098.1	2098.1
30°	1952.6	1940.2	1841.2	1714.4	1674.2	1810.3	2020.7	2064.0	2175.4	2237.3	2218.8
32.5°	2376.6	2348.7	2221.8	2005.3	1844.3	1897.0	2138.3	2187.8	2330.2	2382.8	2342.6
35°	2840.7	2837.7	2679.8	2401.4	2172.3	2076.4	2290.0	2348.7	2528.2	2574.7	2509.6
37.5°	3332.8	3345.2	3240.0	2856.2	2587.0	2370.4	2491.1	2559.1	2778.8	2834.6	2772.7
40°	3880.5	3877.4	3837.2	3382.3	3085.2	2788.2	2781.9	2843.8	3110.0	3196.6	3110.0
42.5°	4573.7	4567.5	4422.0	4013.5	3688.7	3332.8	3205.9	3227.6	3524.7	3667.0	3540.1
45°	5279.2	5235.9	5068.8	4716.0	4428.3	4007.4	3766.0	3766.0	4019.8	4214.8	4016.7
47.5°	5672.3	5628.9	5560.9	5365.9	5279.2	4808.9	4453.0	4409.6	4607.7	4805.7	4527.3
50°	6189.1	6189.1	6018.8	5944.6	6093.1	5762.0	5211.1	5167.8	5263.8	5421.5	5056.4
52.5°	6597.5	6523.3	6402.5	6467.5	6891.4	6739.8	5969.3	5885.8	5960.0	6000.2	5517.5
55°	6767.6	6696.5	6687.2	6925.5	7581.5	7371.1	6746.1	6671.8	6665.5	6467.5	5919.8
57.5°	6801.7	6739.8	6857.5	7275.2	8253.1	7887.9	7519.6	7464.0	7290.7	6795.6	6331.3
60°	6513.9	6544.8	6829.5	7467.0	8649.2	8336.6	8172.6	8113.8	7714.6	7074.0	6789.3
62.5°	5922.9	5997.2	6529.4	7485.6	8503.7	8519.1	8534.7	8494.4	8042.6	7327.8	7250.5
65°	5223.5	5245.2	5885.8	7228.8	8250.0	8463.5	8800.8	8797.7	8293.3	7612.5	7770.3
67.5°	4304.5	4341.6	4895.5	6362.3	7742.4	8438.7	9150.5	9141.2	8578.0	7937.4	8079.8
70°	3202.9	3249.2	3698.0	4948.1	6609.9	8129.3	9608.5	9614.6	8878.1	8184.9	7866.2
71°	2497.2	2580.8	3051.2	4202.4	6031.2	7816.7	9651.7	9707.5	8912.2	8151.0	7426.8
72.5°	1225.4	1324.4	1915.5	2958.4	4963.6	7117.4	9367.1	9475.4	8698.7	7727.0	6350.0
75°	318.8	337.3	572.4	1209.9	2661.3	4716.0	7553.7	7829.1	7111.1	5882.7	3880.5
77.5°	201.1	207.4	269.2	470.4	996.5	1791.7	4437.6	4573.7	4063.1	2980.1	1367.8
80°	142.4	145.5	170.2	303.3	581.8	522.9	1596.7	1655.5	1469.9	789.1	244.5
82.5°	86.6	86.6	123.8	195.0	359.0	284.7	420.8	448.7	396.1	219.7	80.5
85°	49.5	52.6	77.3	133.1	170.2	139.2	157.8	167.2	170.2	145.5	34.1
87.5°	40.2	43.4	68.1	111.4	92.9	68.1	68.1	71.2	74.3	86.6	15.4
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°	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9	1500.9
2.5°	1494.6	1494.6	1497.7	1494.6	1494.6	1494.6	1497.7	1497.7	1497.7	1503.9	1507.0
5°	1500.9	1500.9	1500.9	1497.7	1494.6	1494.6	1500.9	1503.9	1503.9	1513.3	1513.3
7.5°	1516.3	1516.3	1510.1	1503.9	1497.7	1488.5	1491.6	1494.6	1491.6	1494.6	1494.6
10°	1550.4	1550.4	1541.1	1528.7	1510.1	1482.3	1445.1	1398.7	1355.4	1340.0	1333.7
12.5°	1606.0	1603.0	1584.3	1562.8	1522.5	1426.6	1287.3	1123.3	987.1	950.0	937.6
15°	1667.9	1661.8	1640.1	1603.0	1494.6	1240.9	950.0	739.6	609.6	578.7	572.4
17.5°	1732.9	1723.7	1692.7	1618.4	1367.8	922.2	612.7	464.2	393.0	386.8	389.9
20°	1801.0	1788.6	1745.3	1587.5	1104.8	615.8	396.1	359.0	352.8	352.8	355.9
22.5°	1878.3	1862.9	1804.1	1476.1	804.6	408.5	340.4	337.3	334.2	331.1	331.1
25°	1968.1	1949.5	1859.8	1274.9	553.9	334.2	324.9	315.7	309.4	303.3	300.1
27.5°	2076.4	2051.6	1903.1	1027.3	380.6	312.5	306.4	290.9	278.5	266.2	266.2
30°	2184.7	2153.8	1890.7	773.7	309.4	290.9	278.5	259.9	241.4	229.0	225.9
32.5°	2299.2	2268.3	1810.3	519.9	281.6	266.2	250.6	222.8	201.1	185.7	182.6
35°	2469.4	2444.6	1652.5	343.5	253.8	235.2	213.5	185.7	157.8	142.4	139.2
37.5°	2723.2	2692.2	1457.5	263.0	222.8	195.0	176.4	145.5	117.6	102.1	99.0
40°	3063.5	2970.8	1225.4	232.1	195.0	160.9	136.2	105.3	83.6	74.3	74.3
42.5°	3459.6	3240.0	974.8	210.4	173.3	133.1	99.0	71.2	58.8	55.8	55.8
45°	3880.5	3490.6	724.1	195.0	151.6	105.3	71.2	49.5	43.4	40.2	40.2
47.5°	4313.8	3694.8	504.4	176.4	126.8	80.5	49.5	37.1	31.0	27.8	27.8
50°	4719.1	3827.9	355.9	157.8	108.3	58.8	37.1	27.8	21.7	21.7	21.7
52.5°	5000.7	3815.5	256.9	136.2	83.6	40.2	24.8	18.6	18.6	18.6	18.6
55°	5248.2	3769.1	201.1	117.6	65.0	27.8	18.6	15.4	15.4	12.4	12.4
57.5°	5458.7	3694.8	170.2	96.0	46.4	21.7	12.4	12.4	9.3	9.3	9.3
60°	5638.2	3602.0	142.4	80.5	31.0	15.4	9.3	6.2	6.2	3.1	6.2
62.5°	5882.7	3543.2	123.8	61.9	21.7	9.3	6.2	3.1	3.1	0.0	0.0
65°	6062.1	3431.8	105.3	43.4	12.4	6.2	3.1	3.1	0.0	0.0	0.0
67.5°	6068.3	3230.7	77.3	24.8	9.3	6.2	3.1	0.0	0.0	0.0	0.0
70°	5579.4	2754.1	49.5	12.4	6.2	3.1	3.1	0.0	0.0	0.0	0.0
71°	5130.7	2438.5	40.2	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
72.5°	4227.1	1791.7	31.0	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0
75°	2330.2	649.9	15.4	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	745.7	198.0	9.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.8	31.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	12.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)