

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: P572879

Luminaire Tested: **ARCH-S-PA2-130-722-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-722-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11959 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

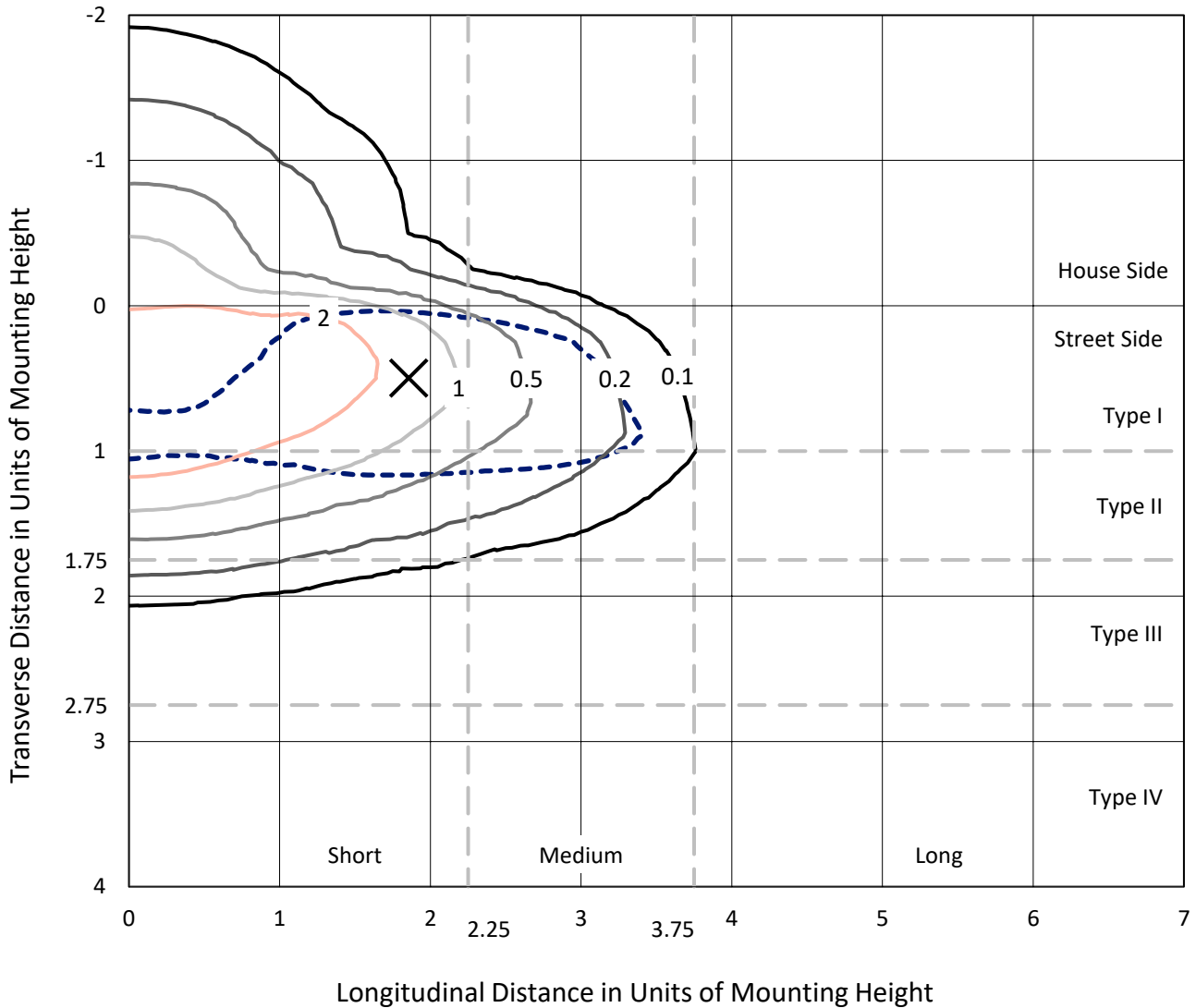
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

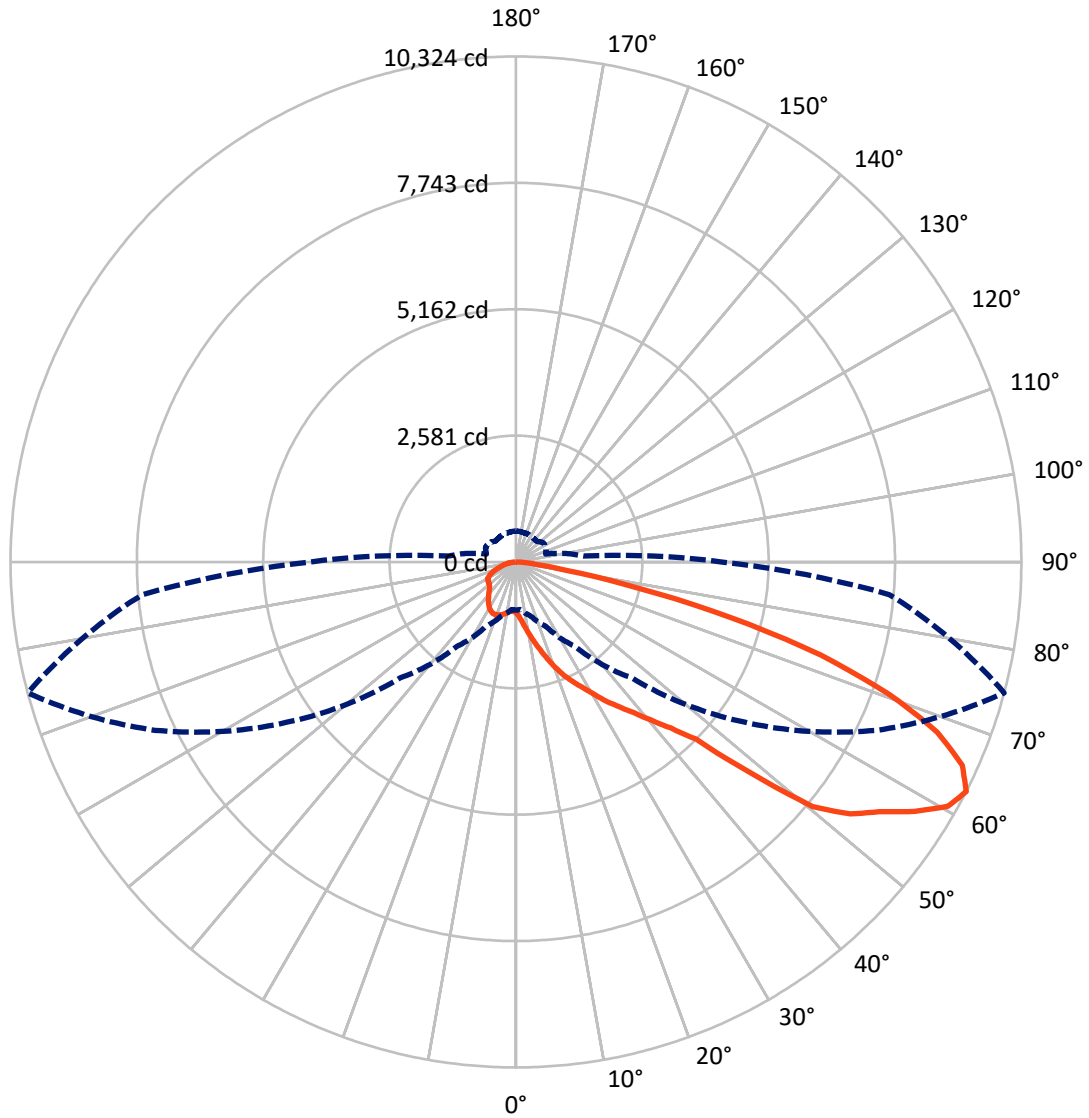
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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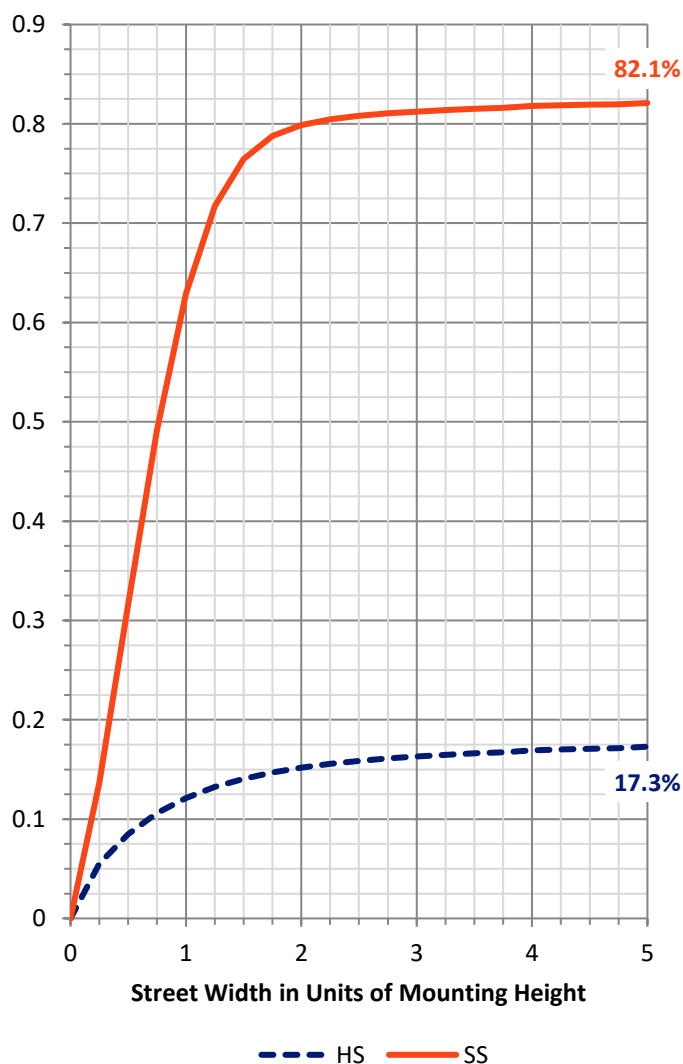
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.2	0.0	2109.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9849.8	0.0	9849.8
	% Fixture	82.4	0.0	82.4
Total	Lumens	11959.0	0.0	11959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.0
10°-20°	494.9	4.1
20°-30°	979.0	8.2
30°-40°	1631.9	13.6
40°-50°	2408.1	20.1
50°-60°	2894.7	24.2
60°-70°	2249.8	18.8
70°-80°	995.3	8.3
80°-90°	180.2	1.5
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°	11959.0	100.0
0°-180°	11959.0	100.0

Coefficient of Utilization



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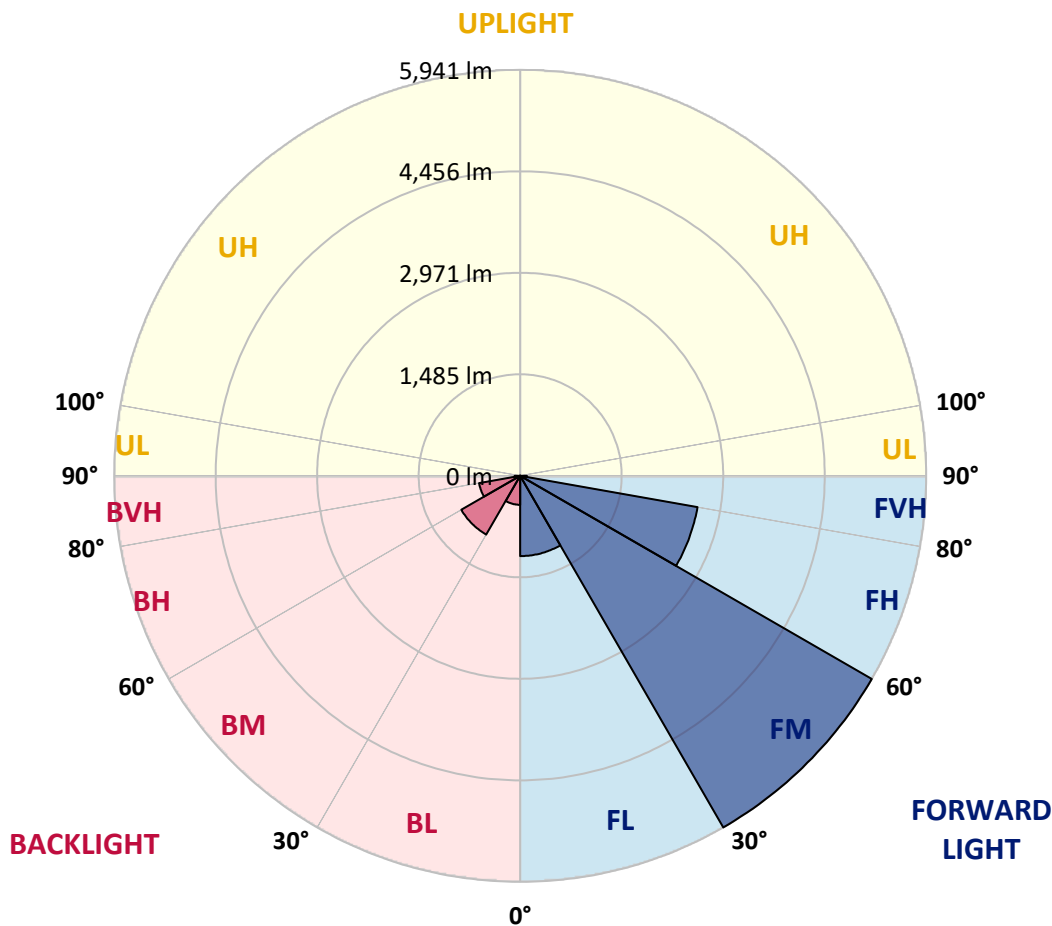
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.7	9.8			
FM (30°-60°)	5941.2	49.7			
FH (60°-80°)	2634.8	22.0			G2/5000
FVH (80°-90°)	99.0	0.8			G1/100
BL (0°-30°)	424.4	3.5	B1/500		
BM (30°-60°)	993.4	8.3	B1/1000		
BH (60°-80°)	610.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	81.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1332.9	1294.2	1294.2	1252.2	1255.4	1219.9	1181.2	1142.5	1100.5	1068.2	1052.1
5°	1742.8	1713.7	1704.0	1655.6	1578.2	1491.0	1397.4	1300.6	1200.6	1123.1	1084.4
7.5°	2126.8	2104.2	2091.3	2036.4	1929.9	1836.3	1687.9	1510.4	1339.3	1194.1	1136.0
10°	2410.8	2394.7	2368.9	2343.0	2265.6	2184.9	2000.9	1749.2	1497.5	1281.2	1194.1
12.5°	2617.4	2594.8	2594.8	2591.5	2539.9	2465.7	2294.6	2023.5	1681.4	1378.1	1258.7
15°	2756.1	2752.9	2762.6	2782.0	2769.0	2720.6	2549.6	2275.3	1868.6	1487.8	1332.9
17.5°	2859.4	2846.5	2865.9	2917.5	2956.2	2936.9	2794.9	2517.3	2075.2	1607.2	1413.6
20°	2972.4	2946.6	2972.4	3036.9	3085.3	3114.4	3046.6	2749.7	2297.9	1736.3	1491.0
22.5°	3188.6	3185.4	3172.5	3191.8	3224.1	3275.7	3237.0	2985.3	2514.1	1865.4	1581.4
25°	3575.9	3540.4	3504.9	3462.9	3427.4	3443.6	3411.3	3204.7	2711.0	2007.4	1658.8
27.5°	4008.3	3969.6	3905.1	3801.8	3705.0	3646.9	3579.1	3395.1	2901.4	2136.5	1733.1
30°	4405.3	4392.4	4295.6	4182.6	4014.8	3908.3	3779.2	3614.6	3130.5	2278.5	1810.5
32.5°	4776.4	4750.6	4653.8	4534.4	4337.5	4218.1	4040.6	3853.4	3391.9	2452.8	1891.2
35°	5096.0	5070.1	4957.2	4805.5	4634.4	4531.2	4327.8	4066.4	3630.7	2604.5	1959.0
37.5°	5338.0	5309.0	5202.5	5054.0	4902.3	4853.9	4679.6	4337.5	3901.8	2794.9	2042.9
40°	5473.5	5438.0	5367.0	5263.8	5137.9	5115.3	5041.1	4673.2	4243.9	3027.2	2165.5
42.5°	5489.7	5457.4	5418.7	5409.0	5399.3	5418.7	5454.2	5054.0	4634.4	3337.1	2346.3
45°	5347.7	5328.3	5331.5	5441.3	5593.0	5770.5	5983.5	5615.6	5160.5	3927.7	2752.9
47.5°	5044.3	5034.6	5105.6	5289.6	5628.5	6031.9	6635.4	6577.3	6406.2	4879.7	3275.7
50°	4553.8	4537.6	4689.3	4979.8	5463.9	6119.0	7074.3	7710.1	7852.1	5618.8	3617.8
52.5°	3850.2	3869.6	4105.2	4502.1	5086.3	6025.4	7255.0	8174.8	8549.2	6164.2	3879.2
55°	3130.5	3101.5	3314.5	3805.0	4527.9	5683.3	7290.5	8442.7	9001.0	6667.7	4134.2
57.5°	2281.7	2352.7	2578.6	3024.0	3808.2	5063.7	7084.0	8626.6	9607.8	7171.1	4369.8
60°	1545.9	1545.9	1746.0	2191.4	2943.3	4311.7	6532.1	8558.9	10137.0	7564.9	4421.4
62.5°	984.3	974.7	1136.0	1452.3	2107.4	3350.0	5705.9	8132.9	10324.2	7658.5	4205.2
65°	622.9	635.8	693.9	887.5	1349.0	2378.5	4579.6	7284.1	10017.6	7442.2	3827.6
67.5°	500.2	503.5	532.5	613.2	829.4	1526.5	3395.1	6112.6	9285.0	6896.8	3385.5
70°	442.1	448.6	455.1	484.1	568.0	965.0	2230.1	4921.7	8084.5	5948.0	2911.1
72.5°	403.4	409.9	416.3	422.8	468.0	629.3	1316.7	3730.8	6522.4	4569.9	2220.4
75°	371.1	377.6	377.6	380.8	406.6	468.0	722.9	2572.2	4540.9	2843.3	1384.5
77.5°	332.4	335.6	335.6	342.1	367.9	367.9	448.6	1591.1	2520.5	1287.7	700.3
80°	280.8	287.2	287.2	296.9	322.7	284.0	300.1	813.3	1045.7	529.3	313.1
82.5°	206.5	219.5	225.9	242.0	258.2	216.2	216.2	409.9	442.1	235.6	167.8
85°	113.0	116.2	167.8	180.7	190.4	129.1	145.2	203.3	219.5	103.3	83.9
87.5°	32.3	35.5	80.7	100.0	90.4	54.9	61.3	77.5	77.5	29.0	22.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1039.2	1013.4	990.8	974.7	958.5	948.8	945.6	939.2	939.2	942.4
5°	1052.1	1006.9	971.4	952.1	939.2	932.7	929.5	929.5	932.7	932.7
7.5°	1084.4	1016.6	984.3	968.2	955.3	948.8	948.8	945.6	948.8	948.8
10°	1129.6	1045.7	1010.2	990.8	981.1	971.4	968.2	965.0	965.0	965.0
12.5°	1178.0	1077.9	1039.2	1016.6	1000.5	987.6	981.1	974.7	971.4	971.4
15°	1223.2	1110.2	1058.6	1032.7	1010.2	990.8	977.9	968.2	965.0	965.0
17.5°	1271.6	1132.8	1071.5	1036.0	1006.9	981.1	965.0	952.1	945.6	945.6
20°	1323.2	1148.9	1071.5	1026.3	987.6	961.7	942.4	929.5	916.6	916.6
22.5°	1365.2	1155.4	1058.6	1003.7	965.0	932.7	913.3	897.2	887.5	887.5
25°	1400.7	1148.9	1029.5	968.2	923.0	894.0	874.6	861.7	852.0	852.0
27.5°	1423.3	1123.1	994.0	929.5	887.5	858.5	845.6	832.7	826.2	826.2
30°	1436.2	1090.8	948.8	887.5	845.6	829.4	823.0	810.1	800.4	797.2
32.5°	1442.6	1042.4	903.7	845.6	816.5	810.1	810.1	793.9	781.0	777.8
35°	1436.2	990.8	858.5	810.1	800.4	803.6	797.2	777.8	761.6	755.2
37.5°	1426.5	929.5	810.1	784.2	793.9	800.4	781.0	755.2	729.4	722.9
40°	1420.0	874.6	771.3	758.4	787.5	790.7	755.2	706.8	687.4	681.0
42.5°	1452.3	819.7	735.8	739.1	771.3	774.6	710.0	687.4	674.5	671.3
45°	1562.0	771.3	706.8	726.1	752.0	739.1	687.4	684.2	674.5	671.3
47.5°	1645.9	735.8	693.9	716.5	735.8	690.6	684.2	681.0	671.3	668.1
50°	1675.0	713.2	690.6	710.0	713.2	668.1	677.7	677.7	668.1	664.8
52.5°	1678.2	700.3	697.1	706.8	677.7	658.4	671.3	671.3	661.6	658.4
55°	1691.1	693.9	700.3	706.8	639.0	645.5	658.4	661.6	651.9	648.7
57.5°	1665.3	684.2	706.8	710.0	622.9	632.6	645.5	645.5	645.5	645.5
60°	1565.3	664.8	703.6	703.6	610.0	616.4	629.3	635.8	639.0	639.0
62.5°	1381.3	626.1	684.2	684.2	597.1	603.5	619.6	619.6	629.3	629.3
65°	1148.9	571.2	645.5	642.2	584.1	590.6	610.0	603.5	619.6	622.9
67.5°	958.5	503.5	587.4	593.8	571.2	587.4	600.3	577.7	610.0	610.0
70°	764.9	422.8	509.9	539.0	548.6	590.6	580.9	545.4	587.4	577.7
72.5°	593.8	358.2	419.6	471.2	522.8	587.4	539.0	500.2	526.1	509.9
75°	432.5	296.9	345.3	390.5	487.3	577.7	497.0	438.9	438.9	432.5
77.5°	303.4	242.0	277.6	309.8	451.8	551.9	445.4	377.6	361.5	358.2
80°	206.5	190.4	219.5	238.8	400.2	500.2	384.1	313.1	284.0	277.6
82.5°	135.5	135.5	148.5	161.4	309.8	416.3	300.1	232.4	300.1	287.2
85°	77.5	80.7	80.7	93.6	171.0	293.7	213.0	232.4	138.8	129.1
87.5°	25.8	25.8	25.8	25.8	35.5	119.4	90.4	83.9	32.3	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)