

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: P348984

Luminaire Tested: **ARCH-N-PA1-30-730-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-30-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 560mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

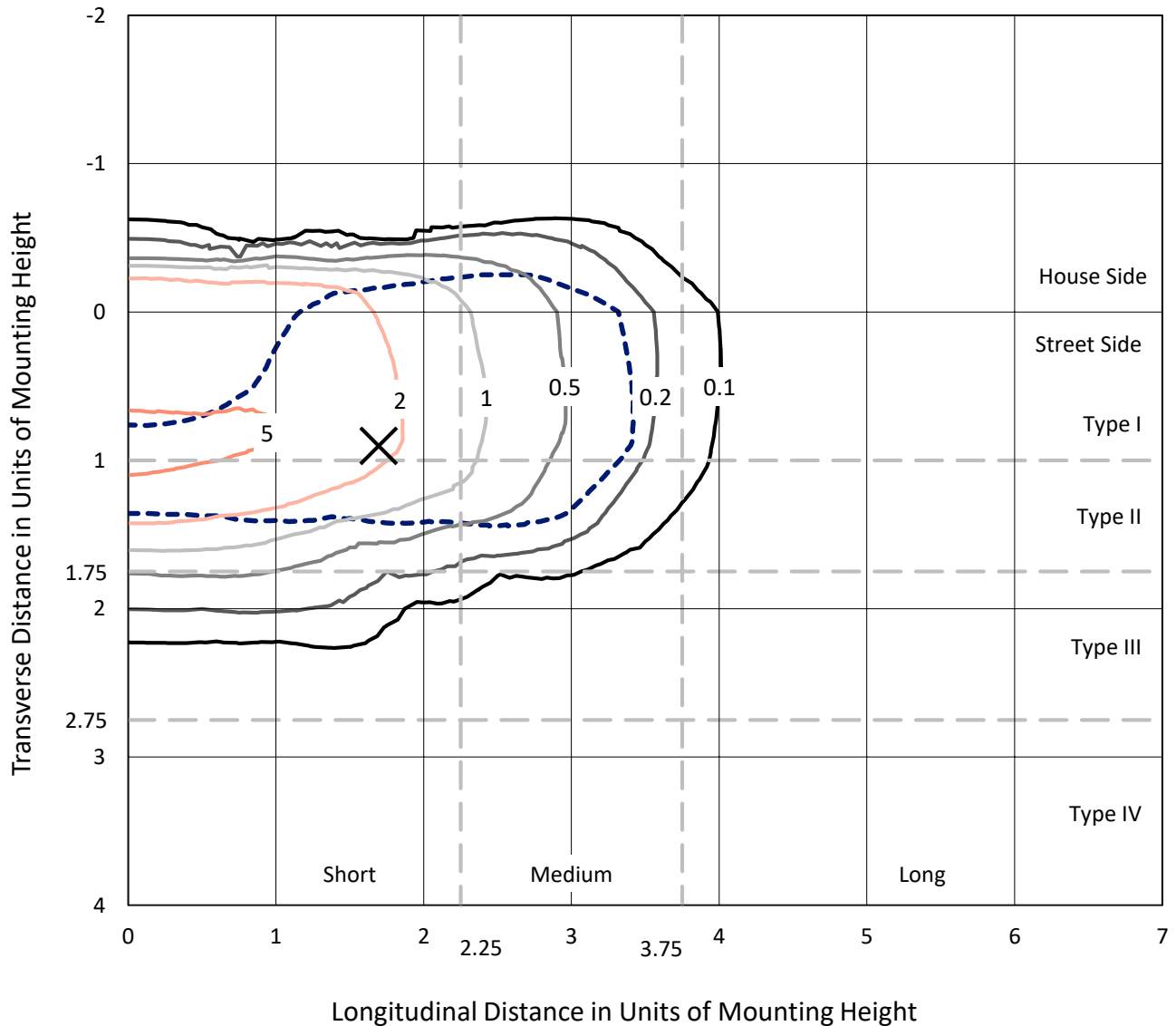
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

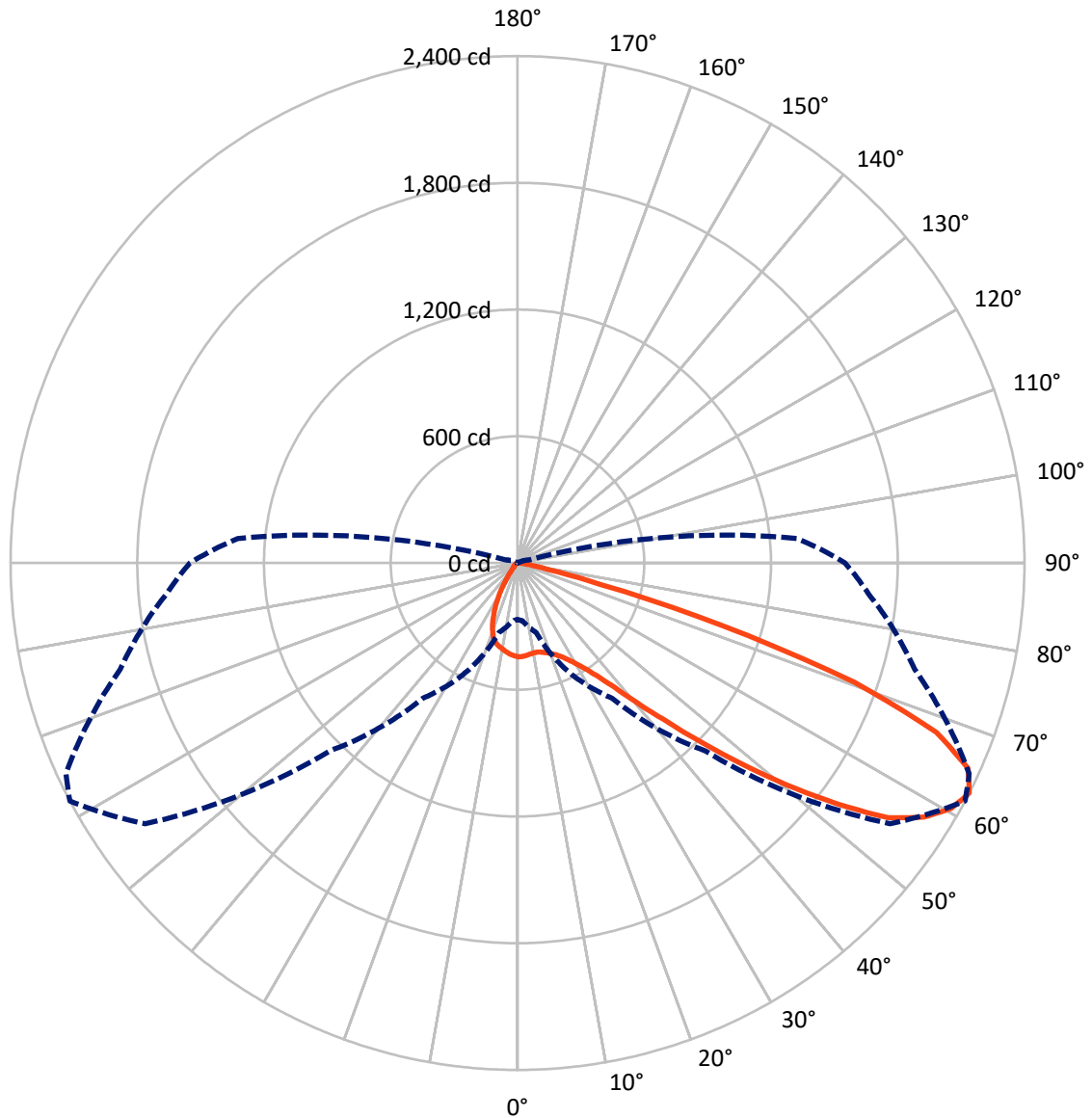


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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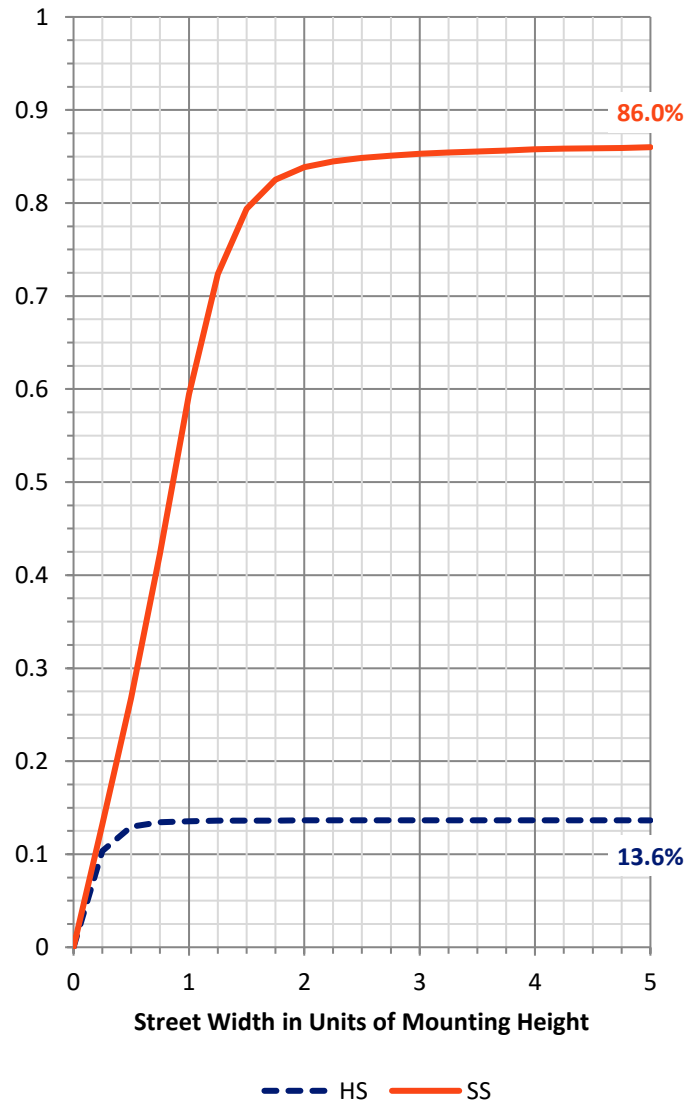
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	394.9	0.0	394.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	2465.1	0.0	2465.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	2860.0	0.0	2860.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.4
10°-20°	101.6	3.6
20°-30°	151.7	5.3
30°-40°	289.0	10.1
40°-50°	602.6	21.1
50°-60°	800.6	28.0
60°-70°	624.1	21.8
70°-80°	235.9	8.2
80°-90°	14.1	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°	2860.0	100.0
0°-180°	2860.0	100.0



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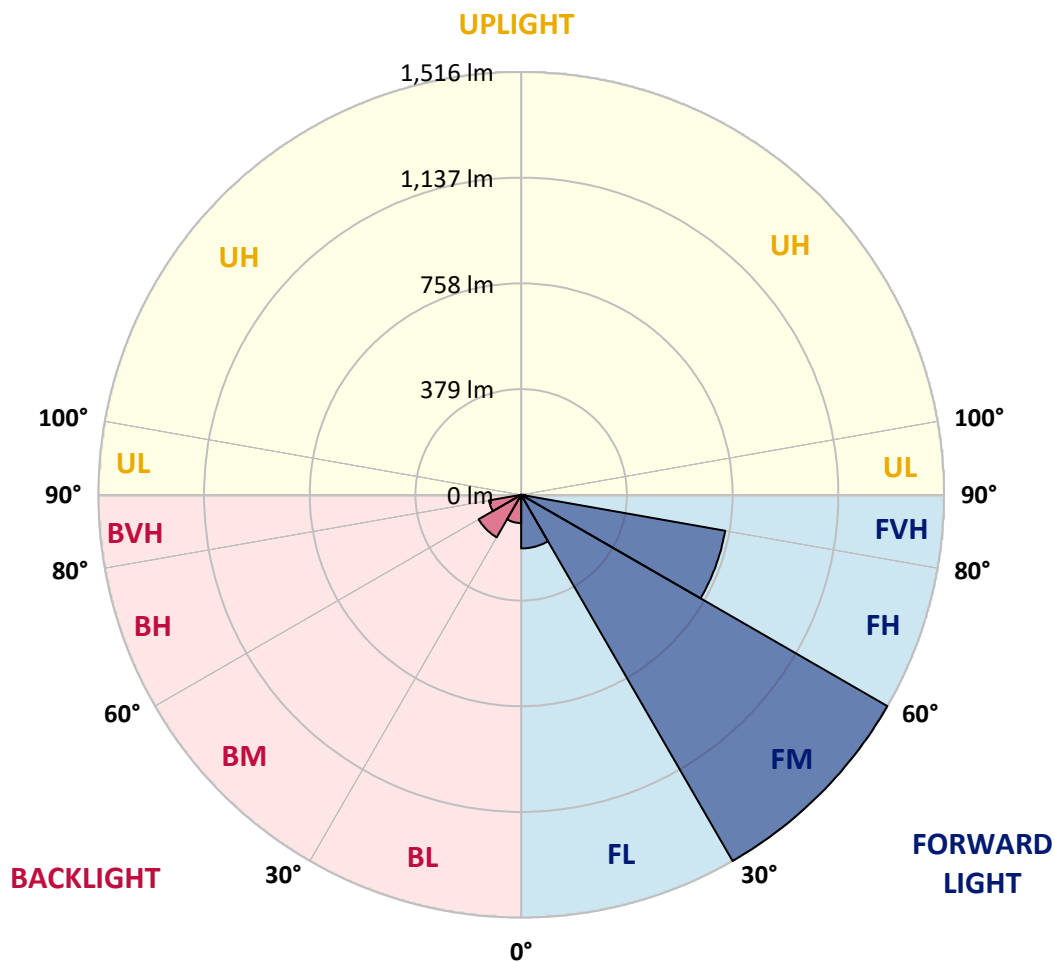
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.4	6.7			
FM (30°-60°)	1516.4	53.0			
FH (60°-80°)	742.8	26.0			G1/1800
FVH (80°-90°)	13.5	0.5			G1/100
BL (0°-30°)	101.3	3.5	B0/110		
BM (30°-60°)	175.8	6.1	B0/220		
BH (60°-80°)	117.1	4.1	B1/500		G1/500
BVH (80°-90°)	0.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	442.8	442.1	444.0	444.0	443.6	444.3	443.6	443.2	442.8	442.1	441.3
5°	431.2	431.2	433.9	435.0	436.1	438.3	439.1	439.8	439.5	440.2	440.6
7.5°	417.8	418.5	421.5	423.0	424.9	429.4	432.0	435.0	435.4	438.0	439.5
10°	406.6	407.3	410.3	412.2	414.8	420.8	426.4	431.6	432.4	437.2	438.3
12.5°	399.1	399.9	402.8	405.5	411.1	418.5	426.4	432.4	434.2	440.2	440.2
15°	396.1	396.9	400.6	405.1	412.6	422.3	432.0	438.3	442.1	446.9	444.7
17.5°	395.0	396.5	402.8	409.6	417.8	428.3	440.2	446.9	450.7	455.9	451.1
20°	398.4	400.2	408.4	417.8	426.4	437.2	450.3	457.8	461.5	464.9	455.5
22.5°	410.3	413.3	420.4	430.9	437.6	450.7	463.8	472.4	476.5	476.1	463.8
25°	439.1	442.8	446.2	451.8	454.8	470.5	484.3	492.9	495.9	494.8	480.6
27.5°	507.1	512.0	500.0	487.7	480.9	495.5	510.8	519.8	522.4	520.2	498.5
30°	621.8	622.2	594.9	556.1	527.3	525.8	544.5	556.4	556.4	551.9	523.9
32.5°	788.9	776.9	742.5	673.8	608.7	574.7	588.9	600.5	600.5	594.9	562.8
35°	998.9	989.9	933.1	850.5	734.7	653.2	650.2	661.4	661.8	660.3	623.7
37.5°	1212.6	1190.6	1143.1	1044.1	908.1	773.9	738.0	745.9	751.5	750.8	705.2
40°	1411.4	1389.4	1349.4	1254.1	1121.1	951.8	865.9	865.9	866.2	862.5	807.6
42.5°	1567.7	1557.6	1527.7	1461.5	1358.8	1231.7	1038.1	1009.7	1003.7	1000.0	927.9
45°	1668.9	1658.5	1642.4	1628.6	1595.3	1549.7	1269.4	1195.1	1185.4	1148.7	1060.9
47.5°	1674.5	1658.5	1669.3	1721.6	1796.7	1820.3	1554.9	1411.1	1385.3	1319.1	1194.3
50°	1549.7	1551.2	1593.4	1720.5	1923.4	2057.6	1857.6	1648.7	1608.0	1475.7	1312.0
52.5°	1320.3	1335.2	1400.6	1596.1	1929.4	2209.3	2121.1	1893.9	1813.2	1616.2	1395.0
55°	1033.6	1047.1	1154.0	1365.5	1784.0	2231.0	2312.8	2128.6	2021.7	1714.1	1469.4
57.5°	730.9	756.4	889.0	1083.3	1506.7	2065.4	2365.1	2269.1	2165.6	1809.4	1539.3
60°	444.3	457.0	594.9	821.0	1135.7	1719.0	2303.8	2358.8	2275.1	1892.0	1604.6
62.5°	267.2	274.7	340.8	565.4	781.4	1258.6	2152.1	2399.9	2358.8	1947.0	1667.4
65°	158.1	162.9	193.9	341.6	520.6	772.1	1824.4	2343.4	2376.7	1994.4	1704.1
67.5°	114.0	115.5	126.7	183.9	349.4	413.7	1268.7	2137.9	2262.4	2010.1	1682.4
70°	98.3	100.2	111.0	129.3	247.4	244.0	660.3	1692.1	1917.8	1928.3	1590.8
72.5°	74.4	77.7	95.7	121.5	177.5	173.4	248.9	1009.0	1302.0	1583.0	1371.5
75°	50.4	52.3	71.0	103.1	138.6	129.3	130.4	405.1	636.8	992.5	942.5
77.5°	31.8	33.3	43.3	74.0	118.8	91.2	92.3	143.9	229.8	420.8	404.0
80°	21.7	22.4	26.2	47.8	80.3	79.2	59.4	75.1	85.6	129.7	87.1
82.5°	13.1	13.1	17.2	28.4	48.6	62.8	37.4	41.5	45.6	48.2	19.8
85°	4.5	4.9	10.5	17.6	29.9	31.4	21.3	24.7	25.8	28.0	9.3
87.5°	1.9	1.5	5.6	9.7	12.7	14.6	12.3	11.2	12.3	16.4	4.1
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°	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3	444.3
2.5°	441.7	440.2	440.2	439.8	437.6	436.5	435.4	432.4	434.2	432.0	430.5
5°	439.5	438.3	436.5	434.6	429.4	424.9	423.0	419.3	418.9	415.9	414.4
7.5°	439.1	436.5	433.5	427.1	419.3	412.2	405.8	399.5	396.9	393.5	391.6
10°	437.2	433.9	428.3	418.2	406.6	395.4	381.2	363.6	350.5	343.1	341.9
12.5°	437.6	433.9	425.3	410.3	395.0	370.3	332.2	292.2	259.3	245.5	243.3
15°	440.6	436.5	423.4	403.2	377.1	322.9	253.0	191.7	149.1	133.8	130.4
17.5°	444.3	437.2	419.3	393.1	342.7	250.4	159.2	100.5	76.6	68.0	66.5
20°	446.6	436.8	412.6	377.8	290.4	167.4	86.7	59.0	51.9	50.1	49.3
22.5°	452.2	438.0	407.0	353.9	224.6	100.9	54.9	46.0	41.9	39.6	39.2
25°	463.8	445.4	407.3	322.9	157.3	60.9	44.5	37.4	33.6	31.4	30.6
27.5°	480.6	458.9	414.4	284.4	97.2	46.0	37.0	30.3	26.2	24.3	23.9
30°	501.9	475.3	422.6	234.3	60.5	38.5	29.9	23.5	20.6	19.4	19.1
32.5°	535.5	503.7	429.7	175.3	41.9	31.8	23.5	18.7	16.8	15.7	15.7
35°	591.2	552.7	441.3	117.3	33.3	25.4	19.1	15.3	13.8	13.1	13.1
37.5°	669.7	622.6	446.9	72.9	27.3	19.8	15.3	12.7	11.6	10.8	10.8
40°	765.3	707.4	439.1	45.2	22.8	16.1	12.7	10.8	9.7	9.3	9.3
42.5°	875.6	804.9	414.4	32.1	19.1	13.1	10.8	9.3	8.6	8.2	8.2
45°	998.9	911.8	370.0	26.9	16.1	11.2	9.3	7.8	7.5	7.1	7.1
47.5°	1121.8	1020.2	312.4	23.2	13.5	9.3	7.8	6.7	6.4	6.0	6.0
50°	1229.1	1115.1	251.5	20.2	11.2	8.2	6.7	5.6	5.2	4.9	4.9
52.5°	1290.4	1171.5	194.7	16.8	9.7	7.1	5.2	4.5	4.1	3.7	3.7
55°	1356.5	1218.6	145.4	14.2	7.8	6.0	4.1	3.4	3.0	2.6	2.6
57.5°	1418.2	1260.8	108.0	11.6	6.7	4.5	3.4	2.6	2.2	1.9	1.9
60°	1478.0	1296.7	80.0	9.3	5.6	3.7	2.6	1.9	1.5	1.1	1.1
62.5°	1550.8	1329.6	58.7	7.5	4.9	2.6	1.9	1.1	0.7	0.4	0.4
65°	1605.0	1346.4	44.1	5.6	4.1	1.9	1.1	0.7	0.0	0.0	0.0
67.5°	1604.6	1313.9	32.1	4.1	3.0	1.5	0.7	0.0	0.0	0.0	0.0
70°	1529.5	1215.3	22.4	3.4	2.2	1.1	0.4	0.0	0.0	0.0	0.0
72.5°	1311.7	961.1	14.6	2.2	1.9	0.7	0.4	0.0	0.0	0.0	0.0
75°	885.3	488.0	8.6	1.9	1.5	0.7	0.4	0.0	0.0	0.0	0.0
77.5°	378.6	191.7	4.5	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
80°	79.2	46.3	1.9	0.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	13.5	6.7	0.7	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.7	0.4	0.4	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)