

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: P349013

Luminaire Tested: **ARCH-N-PA1-40-827-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P349013
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-PA1-40-827-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2916 lumens
Efficiency: N/A
Efficacy: 71.1 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

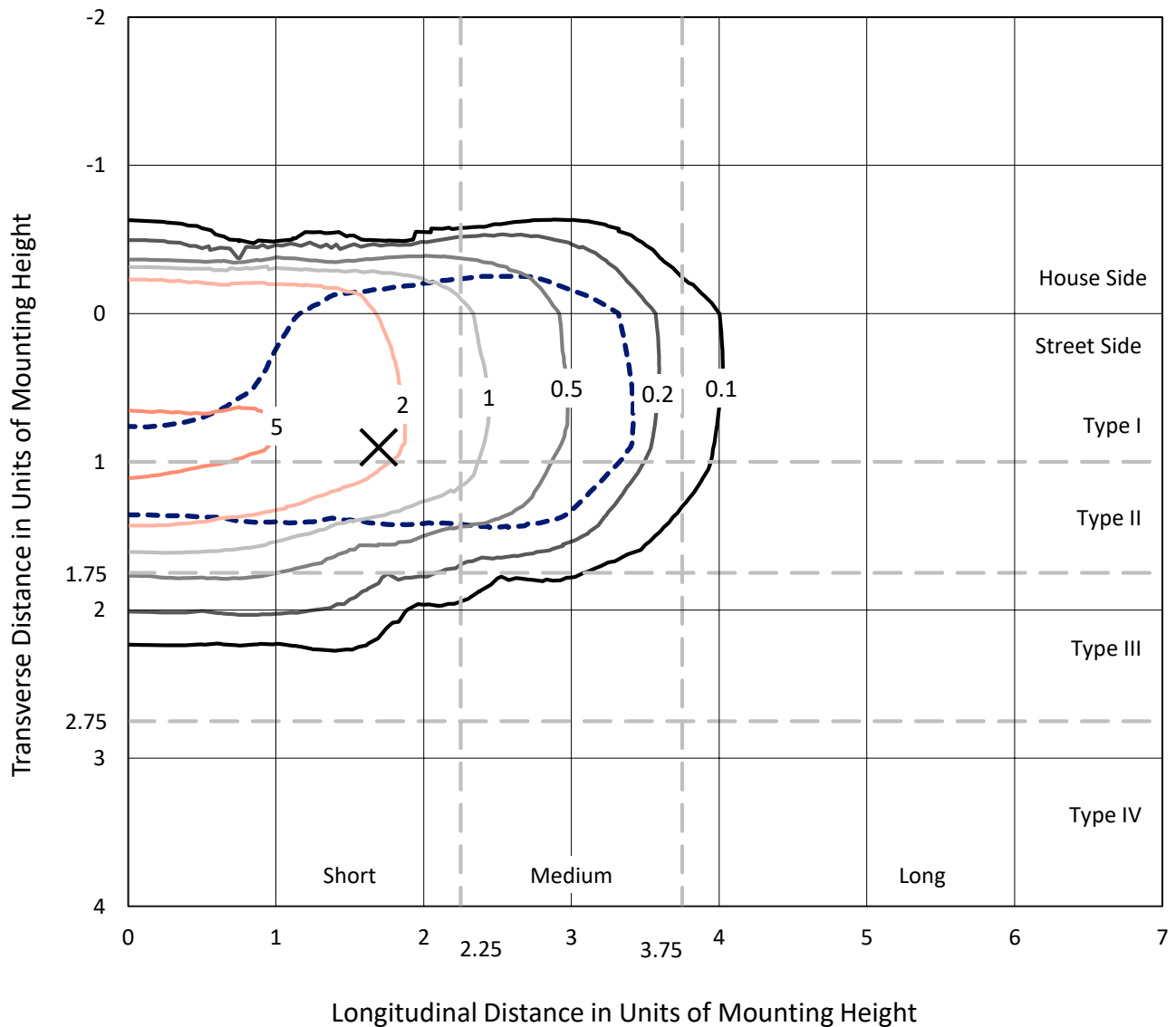
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

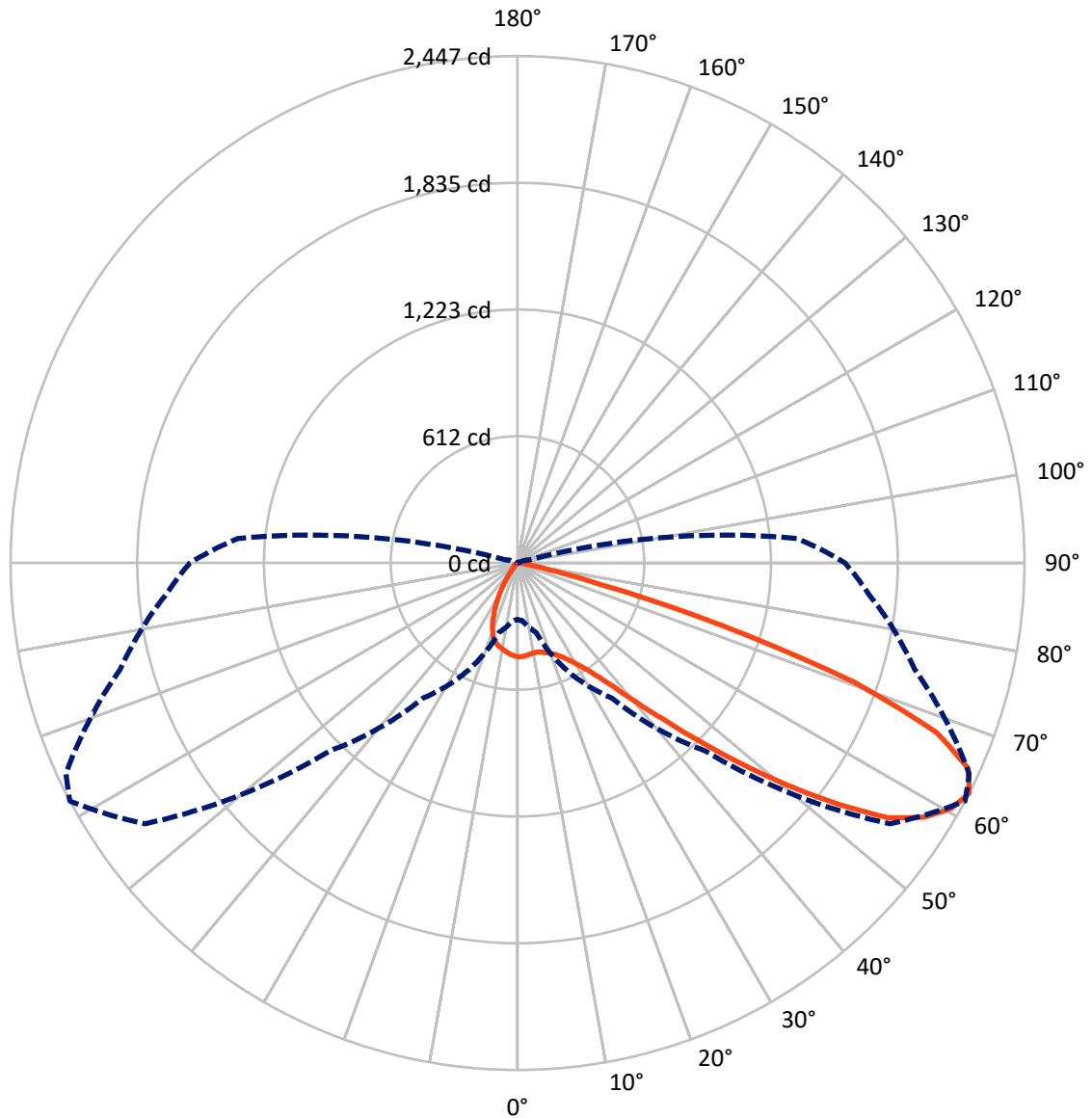
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 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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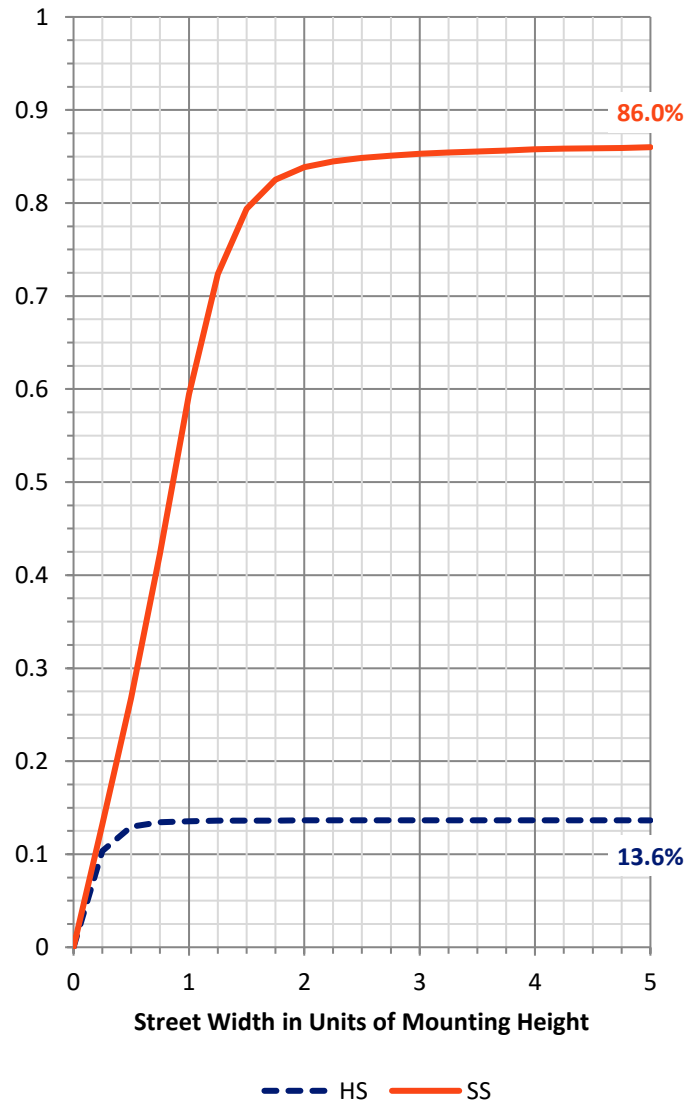
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	402.6	0.0	402.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	2513.4	0.0	2513.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	2916.0	0.0	2916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.4
10°-20°	103.6	3.6
20°-30°	154.6	5.3
30°-40°	294.6	10.1
40°-50°	614.4	21.1
50°-60°	816.3	28.0
60°-70°	636.3	21.8
70°-80°	240.5	8.2
80°-90°	14.4	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°	2916.0	100.0
0°-180°	2916.0	100.0

Coefficient of Utilization



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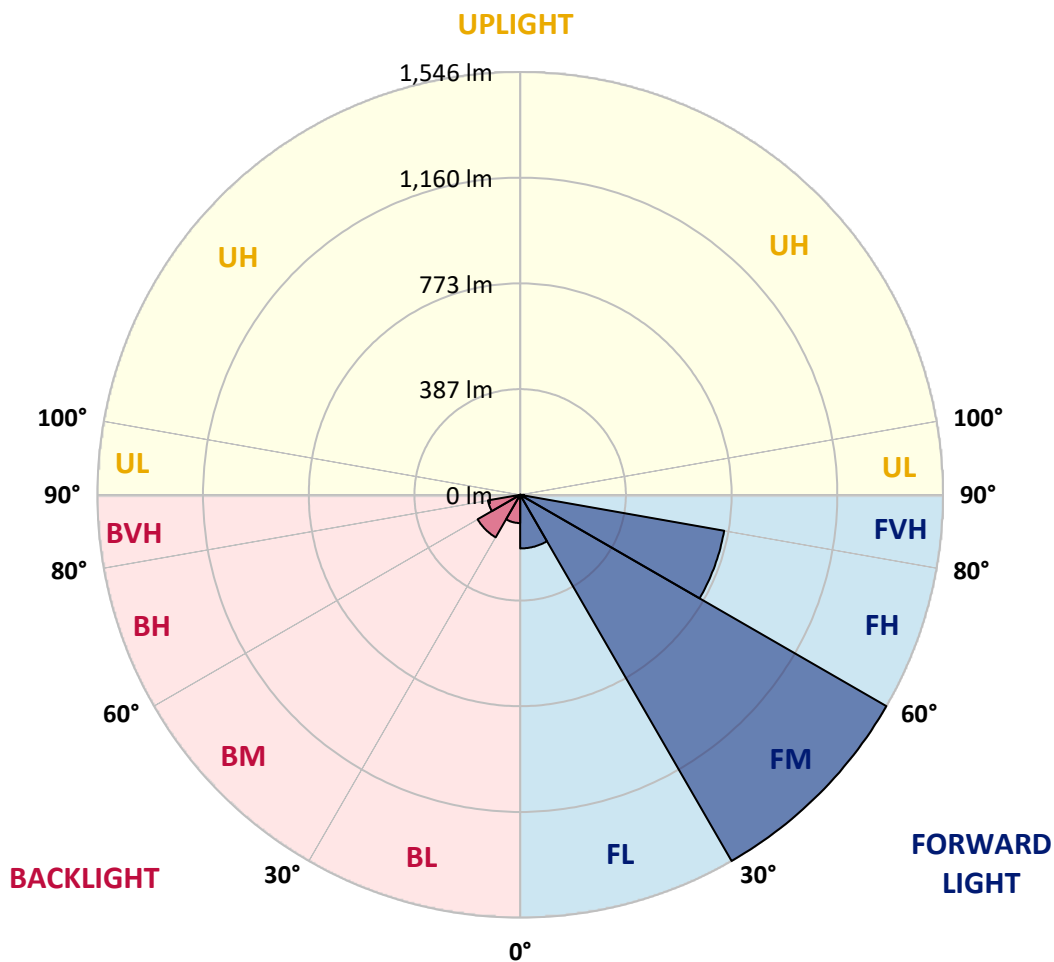
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.2	6.7			
FM (30°-60°)	1546.1	53.0			
FH (60°-80°)	757.4	26.0			G1/1800
FVH (80°-90°)	13.7	0.5			G1/100
BL (0°-30°)	103.3	3.5	B0/110		
BM (30°-60°)	179.2	6.1	B0/220		
BH (60°-80°)	119.4	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°	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2.5°	451.5	450.7	452.6	452.6	452.3	453.0	452.3	451.9	451.5	450.7	450.0
5°	439.7	439.7	442.4	443.5	444.6	446.9	447.7	448.5	448.1	448.8	449.2
7.5°	426.0	426.7	429.8	431.3	433.2	437.8	440.5	443.5	443.9	446.5	448.1
10°	414.5	415.3	418.4	420.3	422.9	429.0	434.7	440.1	440.8	445.8	446.9
12.5°	406.9	407.7	410.7	413.4	419.1	426.7	434.7	440.8	442.7	448.8	448.8
15°	403.9	404.6	408.4	413.0	420.6	430.5	440.5	446.9	450.7	455.7	453.4
17.5°	402.7	404.3	410.7	417.6	426.0	436.6	448.8	455.7	459.5	464.8	459.9
20°	406.2	408.1	416.4	426.0	434.7	445.8	459.1	466.7	470.6	474.0	464.5
22.5°	418.4	421.4	428.6	439.3	446.2	459.5	472.8	481.6	485.8	485.4	472.8
25°	447.7	451.5	454.9	460.6	463.7	479.7	493.8	502.6	505.6	504.5	490.0
27.5°	517.0	522.0	509.8	497.2	490.4	505.2	520.8	530.0	532.7	530.4	508.3
30°	634.0	634.4	606.6	566.9	537.6	536.1	555.1	567.3	567.3	562.8	534.2
32.5°	804.3	792.1	757.1	687.0	620.7	586.0	600.5	612.3	612.3	606.6	573.8
35°	1018.4	1009.3	951.4	867.2	749.1	666.0	663.0	674.4	674.8	673.2	635.9
37.5°	1236.4	1213.9	1165.5	1064.5	925.9	789.1	752.5	760.5	766.2	765.5	719.0
40°	1439.1	1416.6	1375.8	1278.7	1143.0	970.4	882.8	882.8	883.2	879.4	823.4
42.5°	1598.3	1588.1	1557.6	1490.1	1385.4	1255.8	1058.5	1029.5	1023.4	1019.6	946.1
45°	1701.6	1690.9	1674.6	1660.5	1626.5	1580.1	1294.3	1218.5	1208.6	1171.2	1081.7
47.5°	1707.3	1690.9	1702.0	1755.3	1831.9	1855.9	1585.4	1438.7	1412.4	1345.0	1217.7
50°	1580.1	1581.6	1624.6	1754.2	1961.1	2097.9	1894.0	1681.0	1639.5	1504.6	1337.7
52.5°	1346.1	1361.4	1428.0	1627.3	1967.2	2252.5	2162.6	1931.0	1848.7	1647.9	1422.3
55°	1053.9	1067.6	1176.6	1392.2	1819.0	2274.6	2358.1	2170.2	2061.3	1747.7	1498.1
57.5°	745.3	771.2	906.4	1104.6	1536.2	2105.9	2411.4	2313.5	2208.0	1844.9	1569.4
60°	453.0	466.0	606.6	837.1	1157.9	1752.7	2348.9	2405.0	2319.6	1929.1	1636.1
62.5°	272.4	280.0	347.5	576.5	796.7	1283.3	2194.3	2446.9	2405.0	1985.1	1700.1
65°	161.2	166.1	197.7	348.2	530.8	787.2	1860.1	2389.3	2423.2	2033.5	1737.4
67.5°	116.2	117.7	129.2	187.5	356.2	421.8	1293.5	2179.8	2306.6	2049.5	1715.3
70°	100.2	102.1	113.2	131.8	252.2	248.8	673.2	1725.2	1955.4	1966.0	1622.0
72.5°	75.8	79.3	97.5	123.8	181.0	176.8	253.8	1028.7	1327.4	1614.0	1398.3
75°	51.4	53.3	72.4	105.2	141.4	131.8	133.0	413.0	649.2	1012.0	960.9
77.5°	32.4	33.9	44.2	75.4	121.2	93.0	94.1	146.7	234.3	429.0	411.9
80°	22.1	22.9	26.7	48.8	81.9	80.8	60.6	76.6	87.3	132.2	88.8
82.5°	13.3	13.3	17.5	29.0	49.5	64.0	38.1	42.3	46.5	49.2	20.2
85°	4.6	5.0	10.7	17.9	30.5	32.0	21.7	25.1	26.3	28.6	9.5
87.5°	1.9	1.5	5.7	9.9	13.0	14.9	12.6	11.4	12.6	16.8	4.2
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°	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
2.5°	450.4	448.8	448.8	448.5	446.2	445.0	443.9	440.8	442.7	440.5	438.9
5°	448.1	446.9	445.0	443.1	437.8	433.2	431.3	427.5	427.1	424.1	422.5
7.5°	447.7	445.0	442.0	435.5	427.5	420.3	413.8	407.3	404.6	401.2	399.3
10°	445.8	442.4	436.6	426.4	414.5	403.1	388.6	370.7	357.4	349.8	348.6
12.5°	446.2	442.4	433.6	418.4	402.7	377.6	338.7	298.0	264.4	250.3	248.0
15°	449.2	445.0	431.7	411.1	384.4	329.2	257.9	195.5	152.0	136.4	133.0
17.5°	453.0	445.8	427.5	400.8	349.4	255.3	162.3	102.5	78.1	69.3	67.8
20°	455.3	445.4	420.6	385.2	296.0	170.7	88.4	60.2	53.0	51.1	50.3
22.5°	461.0	446.5	414.9	360.8	229.0	102.9	56.0	46.9	42.7	40.4	40.0
25°	472.8	454.2	415.3	329.2	160.4	62.1	45.3	38.1	34.3	32.0	31.2
27.5°	490.0	467.9	422.5	290.0	99.1	46.9	37.7	30.9	26.7	24.8	24.4
30°	511.7	484.6	430.9	238.9	61.7	39.2	30.5	24.0	21.0	19.8	19.4
32.5°	546.0	513.6	438.2	178.7	42.7	32.4	24.0	19.1	17.1	16.0	16.0
35°	602.8	563.5	450.0	119.6	33.9	25.9	19.4	15.6	14.1	13.3	13.3
37.5°	682.8	634.8	455.7	74.3	27.8	20.2	15.6	13.0	11.8	11.0	11.0
40°	780.3	721.3	447.7	46.1	23.2	16.4	13.0	11.0	9.9	9.5	9.5
42.5°	892.7	820.7	422.5	32.8	19.4	13.3	11.0	9.5	8.8	8.4	8.4
45°	1018.4	929.7	377.2	27.4	16.4	11.4	9.5	8.0	7.6	7.2	7.2
47.5°	1143.8	1040.2	318.5	23.6	13.7	9.5	8.0	6.9	6.5	6.1	6.1
50°	1253.2	1136.9	256.4	20.6	11.4	8.4	6.9	5.7	5.3	5.0	5.0
52.5°	1315.6	1194.5	198.5	17.1	9.9	7.2	5.3	4.6	4.2	3.8	3.8
55°	1383.1	1242.5	148.2	14.5	8.0	6.1	4.2	3.4	3.0	2.7	2.7
57.5°	1445.9	1285.5	110.1	11.8	6.9	4.6	3.4	2.7	2.3	1.9	1.9
60°	1506.9	1322.1	81.5	9.5	5.7	3.8	2.7	1.9	1.5	1.1	1.1
62.5°	1581.2	1355.6	59.8	7.6	5.0	2.7	1.9	1.1	0.8	0.4	0.4
65°	1636.4	1372.8	45.0	5.7	4.2	1.9	1.1	0.8	0.0	0.0	0.0
67.5°	1636.1	1339.6	32.8	4.2	3.0	1.5	0.8	0.0	0.0	0.0	0.0
70°	1559.5	1239.1	22.9	3.4	2.3	1.1	0.4	0.0	0.0	0.0	0.0
72.5°	1337.4	980.0	14.9	2.3	1.9	0.8	0.4	0.0	0.0	0.0	0.0
75°	902.6	497.6	8.8	1.9	1.5	0.8	0.4	0.0	0.0	0.0	0.0
77.5°	386.0	195.5	4.6	1.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0
80°	80.8	47.2	1.9	0.8	0.8	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	6.9	0.8	0.8	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	0.8	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)