

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: P397736

Luminaire Tested: **ARCH-S-PA1-30-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2564 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

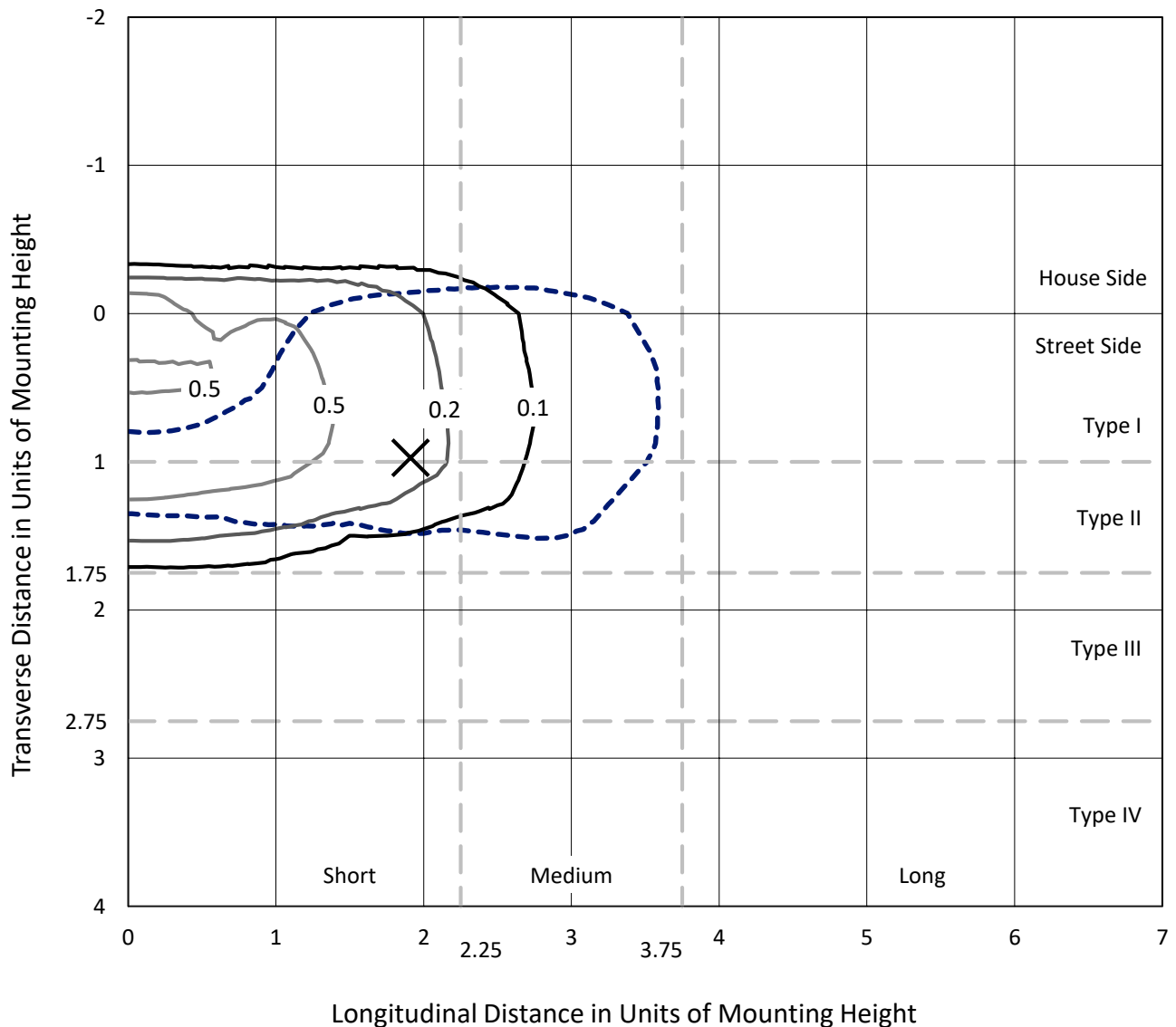
Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

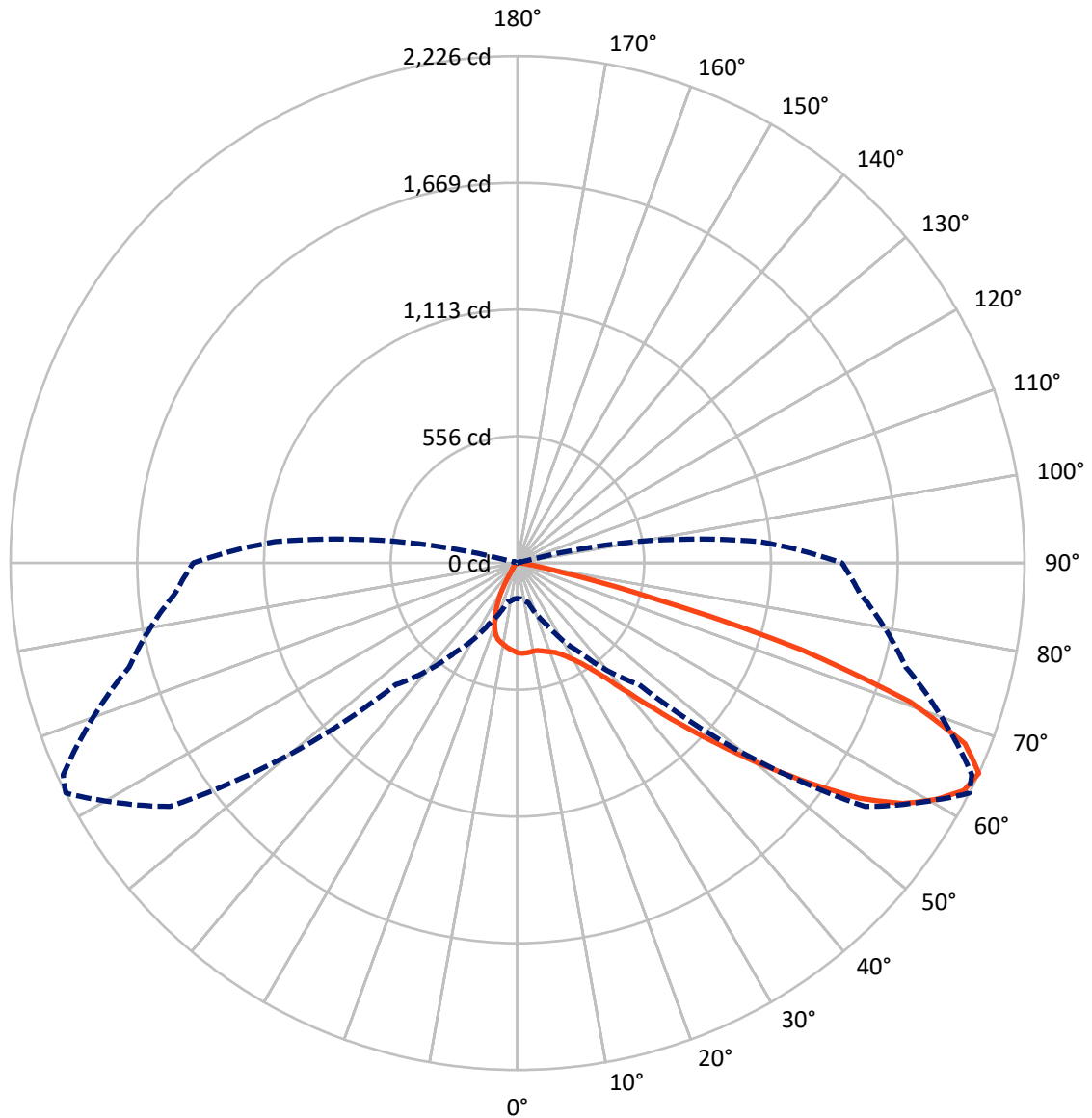


Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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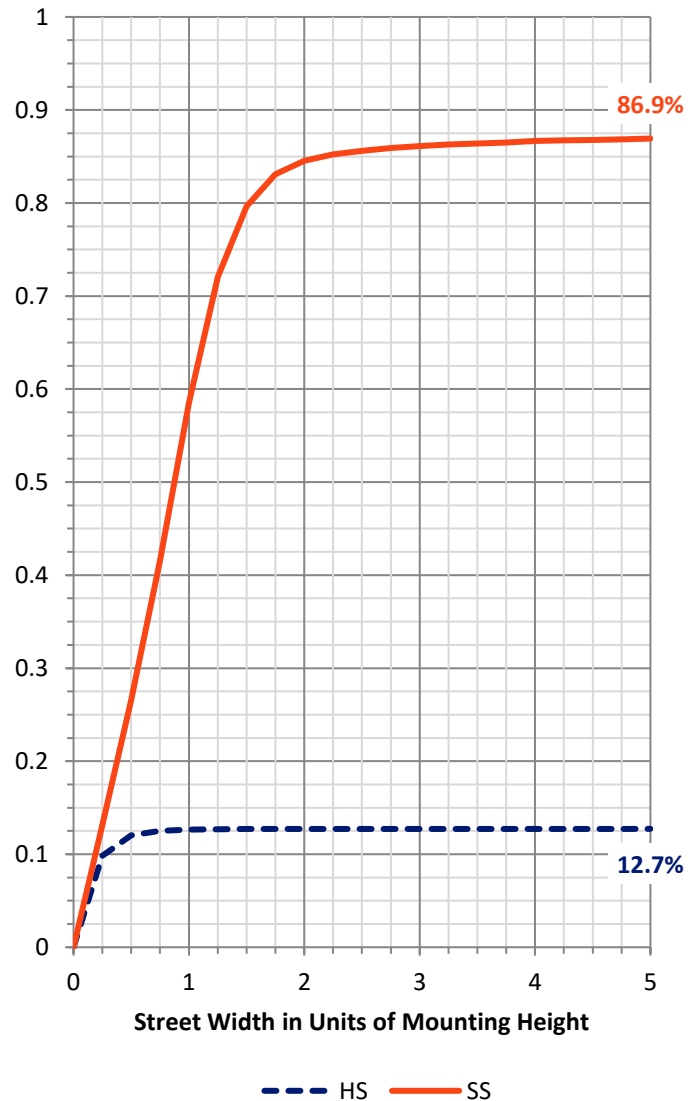
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	330.0	0.0	330.0
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	2234.0	0.0	2234.0
	% Fixture	87.1	0.0	87.1
Total	Lumens	2564.0	0.0	2564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	1.4
10°-20°	88.9	3.5
20°-30°	131.8	5.1
30°-40°	244.7	9.5
40°-50°	518.4	20.2
50°-60°	716.8	28.0
60°-70°	573.8	22.4
70°-80°	238.4	9.3
80°-90°	15.3	0.6
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°	2564.0	100.0
0°-180°	2564.0	100.0



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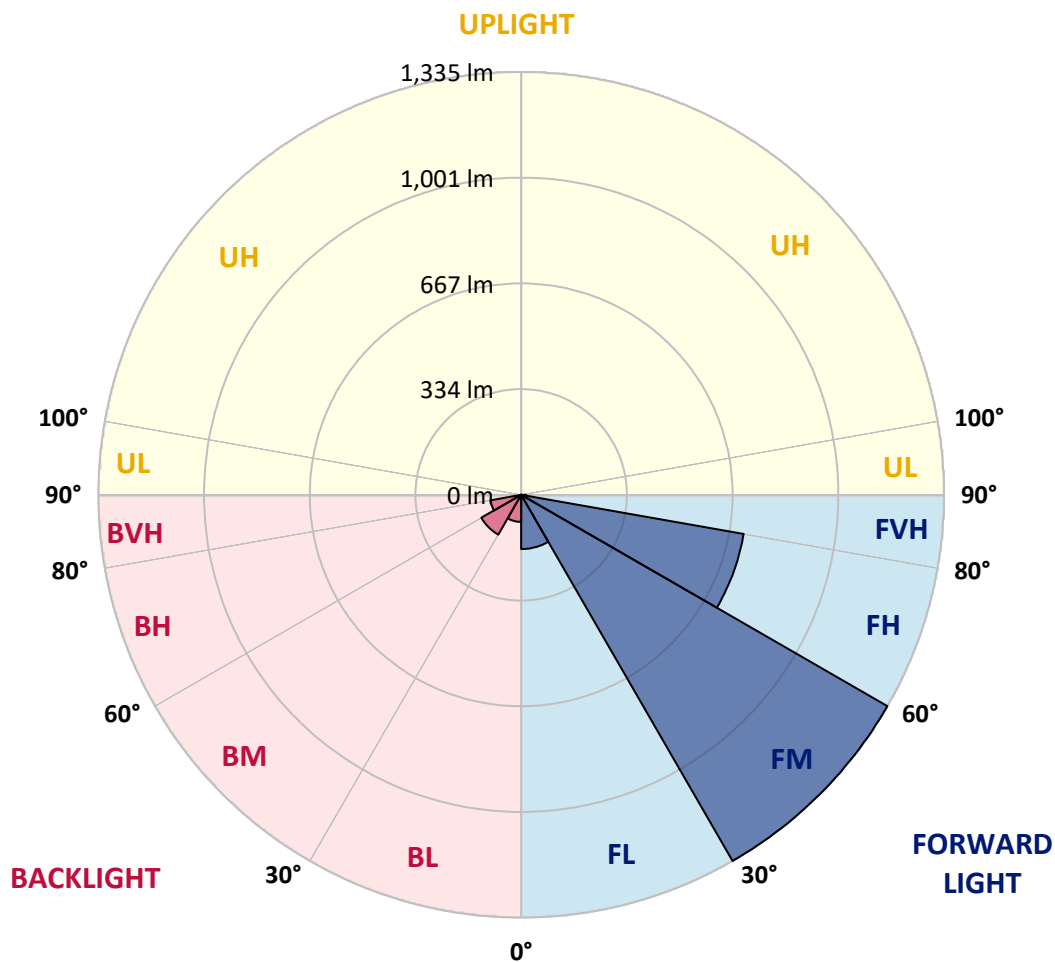
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.2	6.7			
FM	(30°-60°)	1334.8	52.1			
FH	(60°-80°)	713.4	27.8			G1/1800
FVH	(80°-90°)	14.6	0.6			G1/100
BL	(0°-30°)	85.5	3.3	B0/110		
BM	(30°-60°)	145.0	5.7	B0/220		
BH	(60°-80°)	98.8	3.9	B0/110		G0/110
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: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0
2.5°	401.8	400.8	399.8	399.3	399.3	398.9	396.9	396.4	395.5	394.5	393.5
5°	397.9	396.4	396.0	396.4	396.9	397.9	396.9	396.9	396.0	395.0	393.0
7.5°	388.2	387.2	387.7	389.2	389.7	393.0	393.5	395.0	395.0	394.0	392.6
10°	376.6	376.1	376.1	378.5	380.9	385.8	389.2	393.0	393.5	393.5	391.1
12.5°	367.9	367.4	368.8	371.8	376.6	382.9	388.7	394.5	395.5	396.0	392.1
15°	362.6	362.6	364.5	370.3	377.1	385.8	392.6	400.3	401.3	400.8	395.5
17.5°	357.7	358.2	362.1	371.8	379.5	391.1	399.3	408.1	408.5	408.1	399.3
20°	355.8	356.7	362.6	375.1	383.9	396.9	407.6	416.3	416.8	414.8	403.2
22.5°	361.1	361.6	368.8	382.4	390.6	405.2	418.7	426.9	427.4	424.5	409.0
25°	379.5	379.5	385.8	397.4	404.7	419.2	433.7	443.4	443.4	440.0	422.1
27.5°	422.6	418.7	417.3	420.6	423.1	438.6	454.0	466.1	465.7	460.8	439.0
30°	505.8	496.2	480.7	463.2	454.5	465.2	479.7	495.2	494.7	487.0	459.8
32.5°	645.7	631.7	594.9	548.9	511.6	499.5	513.1	530.0	530.5	521.3	493.2
35°	841.8	819.5	753.7	689.8	604.6	558.6	562.5	580.9	586.7	581.8	549.4
37.5°	1030.5	1010.2	947.3	858.7	743.0	649.1	632.7	648.6	655.4	655.4	621.0
40°	1220.8	1197.1	1141.4	1052.3	930.3	790.5	731.4	744.5	751.7	753.2	708.2
42.5°	1373.3	1357.8	1315.2	1245.9	1131.7	1038.3	873.7	866.5	873.2	867.9	809.3
45°	1478.8	1466.7	1437.1	1411.0	1355.3	1308.4	1063.9	1015.1	1019.4	1001.0	923.1
47.5°	1500.6	1487.0	1480.7	1517.0	1556.7	1568.3	1297.7	1191.7	1187.4	1146.7	1041.2
50°	1405.7	1407.1	1430.4	1534.0	1699.5	1804.1	1568.8	1391.2	1375.2	1284.7	1151.1
52.5°	1200.9	1224.2	1282.7	1450.7	1743.1	1975.4	1839.9	1602.7	1578.0	1418.8	1233.4
55°	939.5	969.6	1065.9	1259.0	1652.1	2051.9	2068.3	1822.5	1766.3	1519.4	1297.3
57.5°	698.5	707.7	820.0	996.2	1436.7	1976.9	2185.5	1991.9	1919.7	1599.8	1360.7
60°	435.2	441.0	559.6	758.5	1088.1	1699.5	2185.5	2108.5	2039.8	1671.9	1418.8
62.5°	270.6	272.5	317.1	519.9	739.6	1260.5	2095.0	2199.0	2143.9	1723.7	1468.6
65°	155.9	157.8	178.6	293.8	481.1	754.6	1863.6	2225.7	2201.0	1764.8	1507.3
67.5°	113.8	114.7	122.9	165.1	314.6	387.7	1399.9	2118.7	2149.7	1785.2	1506.4
70°	98.7	100.2	110.8	128.8	227.0	238.2	712.5	1829.7	1916.4	1756.1	1461.3
72.5°	76.0	77.9	93.9	121.0	166.5	171.4	258.0	1302.1	1433.3	1574.6	1337.9
75°	52.3	54.2	70.2	99.7	137.5	128.3	141.8	599.3	756.1	1056.2	1018.4
77.5°	33.4	33.9	44.0	72.6	118.6	91.0	97.3	195.6	274.5	477.8	480.7
80°	22.3	22.8	27.1	47.0	81.3	84.2	60.0	90.5	99.2	139.4	96.8
82.5°	13.6	13.6	18.4	29.5	49.4	69.7	39.2	47.4	50.8	53.7	25.2
85°	5.3	5.3	11.1	19.4	31.0	32.4	24.7	27.6	29.0	31.5	11.6
87.5°	1.5	1.5	6.3	10.6	13.6	15.0	15.0	13.6	14.5	17.9	5.8
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°	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0
2.5°	393.0	391.6	389.7	387.7	385.8	384.3	382.9	382.9	381.9	380.5	379.5
5°	392.1	389.7	385.3	381.9	376.6	372.7	369.8	367.4	365.9	362.6	362.1
7.5°	390.6	387.7	381.4	374.7	365.9	359.2	352.4	347.5	342.7	338.8	337.9
10°	388.2	384.8	375.6	365.9	353.8	341.3	325.3	306.9	289.9	280.3	277.4
12.5°	388.2	383.9	371.8	358.7	341.3	310.3	269.6	229.0	197.5	183.5	179.6
15°	390.6	384.8	368.8	350.9	318.5	255.6	189.7	136.0	101.7	91.0	88.6
17.5°	393.0	384.8	364.5	340.3	276.9	185.4	107.9	71.6	60.5	58.1	58.1
20°	394.0	383.9	358.7	320.4	221.2	115.2	64.4	53.7	49.4	47.9	47.9
22.5°	397.9	384.3	354.3	291.9	160.7	67.8	50.8	45.0	40.7	39.2	39.2
25°	407.6	390.1	355.3	255.6	103.1	51.3	43.1	37.3	32.9	31.0	31.0
27.5°	423.1	403.2	360.6	213.5	64.9	44.0	36.3	30.0	26.6	24.7	24.7
30°	440.5	417.7	363.0	165.1	48.4	37.3	29.5	23.7	21.3	19.8	19.4
32.5°	471.0	442.9	361.1	113.3	39.7	31.5	23.7	18.9	16.9	16.5	16.5
35°	519.9	487.0	357.2	71.2	32.9	25.2	18.9	15.5	14.0	13.6	13.1
37.5°	586.2	551.3	345.6	47.0	27.1	19.8	15.5	13.1	11.6	11.1	11.1
40°	667.0	624.9	323.3	35.8	23.2	16.0	13.1	11.1	10.2	9.7	9.7
42.5°	759.5	706.7	288.0	31.0	19.4	13.6	11.1	9.2	8.7	8.2	8.2
45°	860.6	792.4	239.1	27.6	16.5	11.1	9.2	8.2	7.3	7.3	6.8
47.5°	968.1	878.6	183.9	24.2	14.0	9.7	8.2	6.8	6.3	5.8	5.8
50°	1071.7	955.5	129.2	20.8	11.6	8.2	6.8	5.8	5.3	4.8	4.8
52.5°	1144.8	1002.0	91.5	17.9	9.7	7.3	5.3	4.4	3.9	3.9	3.9
55°	1203.4	1031.0	63.9	15.0	8.2	6.3	4.4	3.4	3.4	2.9	2.9
57.5°	1258.5	1049.9	47.0	12.6	6.8	4.8	3.4	2.4	2.4	1.9	1.9
60°	1315.7	1060.1	35.8	10.2	5.8	3.9	2.4	1.9	1.5	1.5	1.5
62.5°	1373.3	1066.4	27.6	8.2	4.8	2.9	1.9	1.5	1.0	0.5	0.5
65°	1423.6	1068.3	21.3	6.3	3.9	1.9	1.5	0.5	0.0	0.0	0.0
67.5°	1438.6	1046.0	16.5	4.8	2.9	1.5	1.0	0.0	0.0	0.0	0.0
70°	1397.9	987.0	12.6	3.9	2.4	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	1240.6	827.7	9.7	2.4	1.9	1.0	0.5	0.0	0.0	0.0	0.0
75°	887.7	441.5	6.8	1.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	408.5	170.9	4.8	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	79.9	42.6	1.9	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.4	7.3	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	2.4	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.0	0.5	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)