

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: P798742

Luminaire Tested: **ARCH1-30-730-U-T3-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

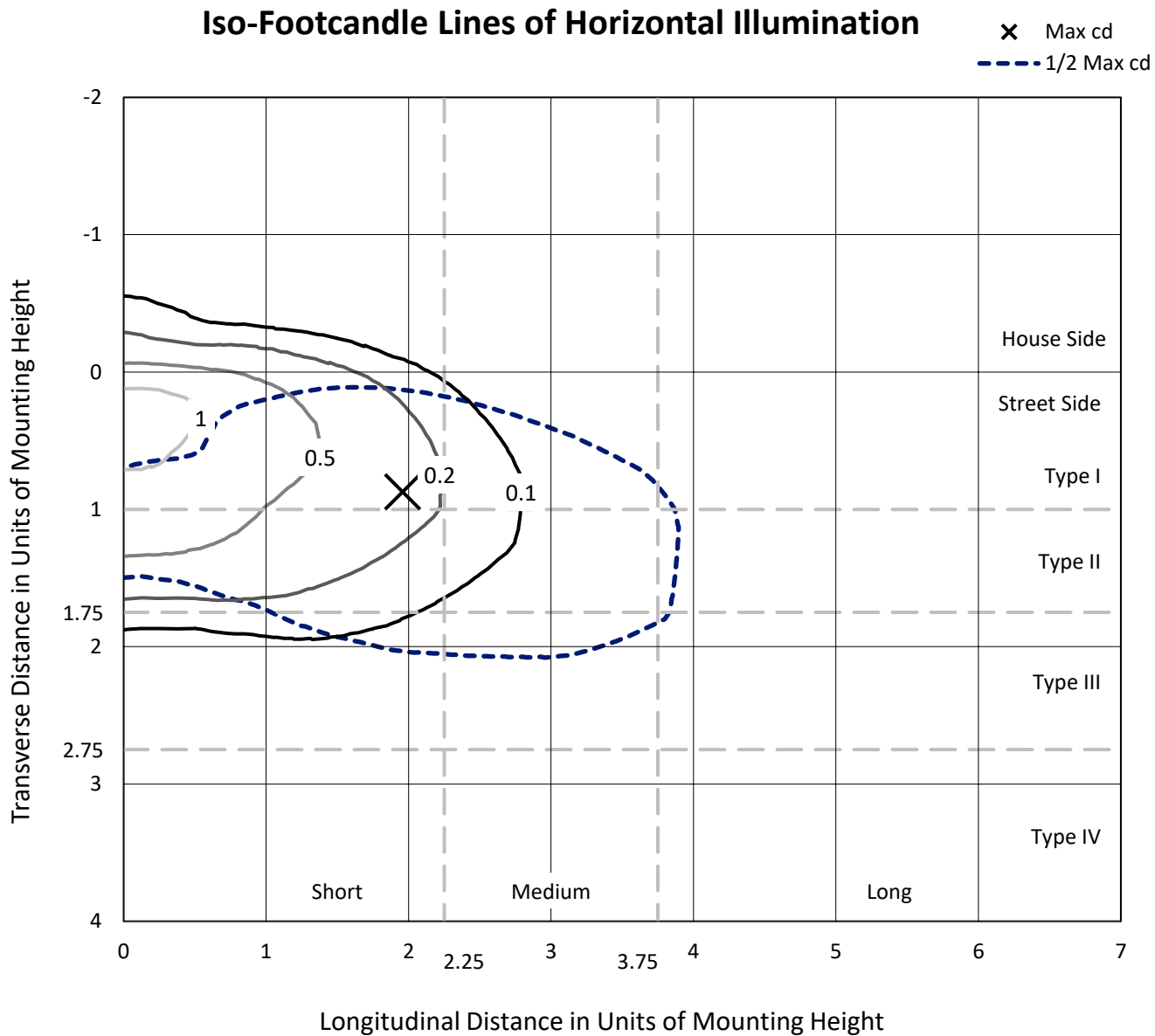
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3160 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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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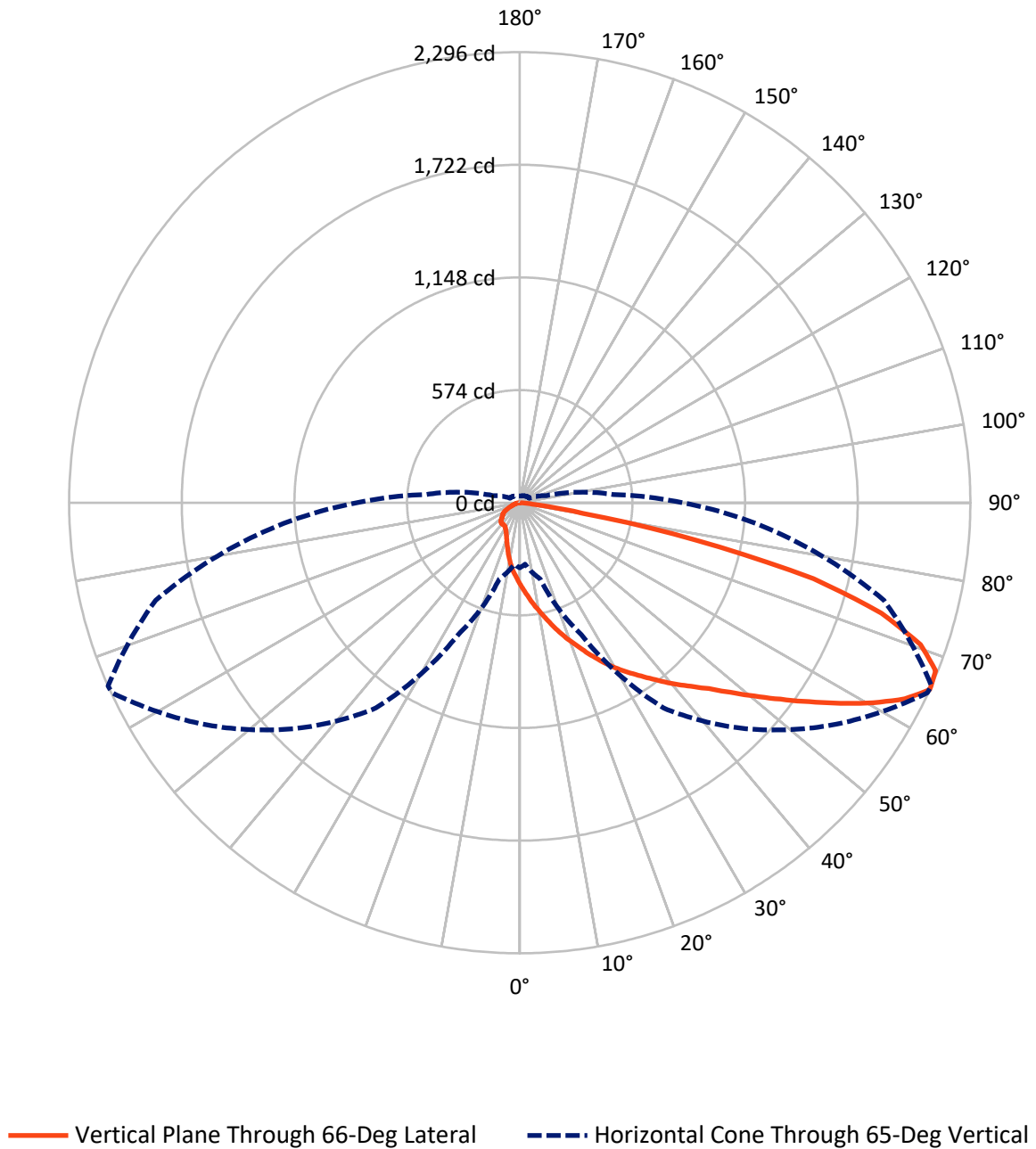


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	334.3	0.0	334.3
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2825.7	0.0	2825.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	3160.0	0.0	3160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.3
10°-20°	134.5	4.3
20°-30°	243.4	7.7
30°-40°	380.6	12.0
40°-50°	577.4	18.3
50°-60°	733.6	23.2
60°-70°	685.5	21.7
70°-80°	340.7	10.8
80°-90°	22.9	0.7
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°	3160.0	100.0
0°-180°	3160.0	100.0

Coefficient of Utilization



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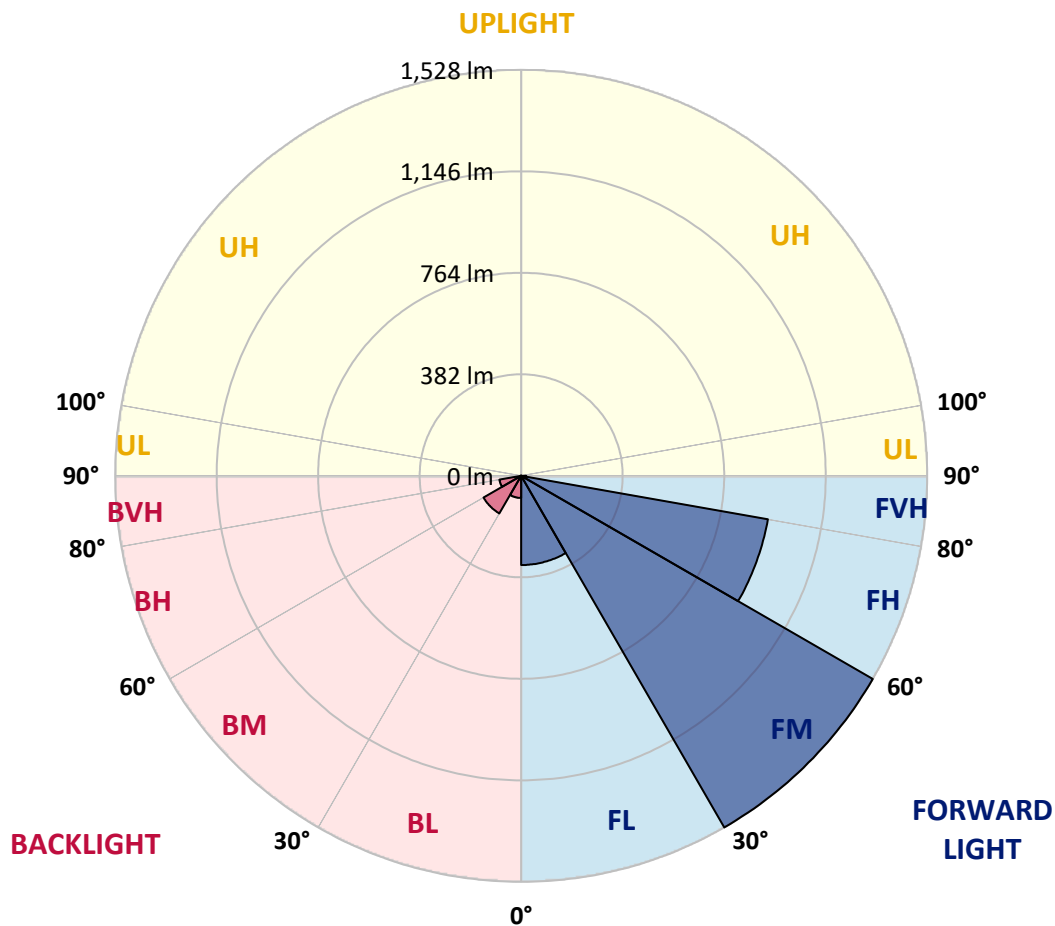
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	335.8	10.6			
FM	(30°-60°)	1528.2	48.4			
FH	(60°-80°)	943.0	29.8			G1/1800
FVH	(80°-90°)	18.8	0.6			G1/100
BL	(0°-30°)	83.5	2.6	B0/110		
BM	(30°-60°)	163.5	5.2	B0/220		
BH	(60°-80°)	83.2	2.6	B0/110		G0/110
BVH	(80°-90°)	4.1	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	488.5	492.4	494.4	495.1	479.8	473.2	466.6	451.3	448.0	439.4	428.2
5°	574.6	579.9	578.6	575.9	557.4	536.2	518.9	490.5	485.8	465.3	440.1
7.5°	659.5	664.1	662.8	652.8	632.3	602.5	574.0	532.2	525.6	492.4	452.0
10°	730.4	734.4	733.7	723.7	699.2	662.8	628.3	572.6	564.7	517.6	462.0
12.5°	788.7	794.0	793.3	786.7	764.8	725.1	686.0	619.0	609.1	548.1	475.9
15°	834.4	841.1	841.1	838.4	823.2	790.0	745.6	670.1	658.1	583.2	493.1
17.5°	862.3	867.6	872.2	876.8	866.2	841.1	800.6	721.1	708.5	617.7	511.0
20°	876.8	882.1	885.5	895.4	897.4	884.8	853.0	771.5	758.2	656.8	531.5
22.5°	900.7	905.3	906.0	914.6	918.6	921.9	902.0	821.2	810.6	699.9	554.7
25°	940.5	945.8	943.8	947.8	948.4	952.4	950.4	878.2	867.6	748.9	582.6
27.5°	991.5	998.1	996.8	992.8	986.9	983.6	992.2	935.8	925.9	798.0	611.1
30°	1046.5	1054.5	1052.5	1044.5	1028.6	1014.7	1026.6	990.2	980.9	848.3	642.9
32.5°	1102.2	1111.5	1110.8	1097.5	1070.4	1046.5	1064.4	1041.2	1034.6	902.7	677.4
35°	1138.6	1150.6	1149.2	1141.3	1106.2	1085.6	1107.5	1093.6	1088.9	969.0	727.1
37.5°	1197.6	1210.2	1199.0	1179.1	1138.6	1128.0	1154.5	1152.6	1149.2	1039.2	779.4
40°	1340.8	1359.3	1329.5	1248.0	1181.7	1172.4	1210.2	1218.2	1214.9	1108.8	826.5
42.5°	1490.6	1518.4	1472.0	1359.3	1259.9	1226.1	1271.2	1282.5	1278.5	1168.5	868.9
45°	1581.4	1593.3	1546.9	1459.4	1398.4	1291.1	1336.1	1354.7	1351.4	1240.0	923.2
47.5°	1655.6	1651.0	1597.9	1539.0	1550.2	1382.5	1409.7	1446.2	1443.5	1318.9	982.9
50°	1671.5	1660.9	1639.7	1602.6	1632.4	1475.3	1487.3	1550.2	1547.6	1406.4	1043.2
52.5°	1559.5	1545.6	1603.2	1634.4	1624.5	1542.9	1572.8	1664.2	1662.9	1501.2	1100.9
55°	1279.8	1268.5	1423.6	1584.7	1615.8	1590.7	1667.5	1782.9	1790.1	1601.9	1153.2
57.5°	1006.7	994.8	1147.3	1460.1	1584.0	1634.4	1778.2	1918.7	1928.0	1711.3	1202.9
60°	802.6	784.7	901.4	1263.9	1524.4	1668.2	1884.9	2067.8	2069.2	1811.4	1233.4
62.5°	545.5	525.6	654.8	1015.4	1424.3	1673.5	1967.1	2196.4	2201.7	1886.2	1238.7
65°	331.4	314.8	402.3	741.6	1276.5	1628.4	1968.4	2291.2	2295.8	1920.7	1206.9
67.5°	192.2	185.6	230.0	462.0	1031.3	1507.1	1885.6	2276.6	2285.2	1906.1	1134.7
70°	112.0	111.3	127.9	228.7	727.7	1266.6	1700.7	2154.0	2166.6	1829.9	1024.0
72.5°	82.2	83.5	90.1	122.6	421.5	912.0	1440.2	1907.5	1926.7	1680.8	866.2
75°	65.0	65.6	71.6	83.5	221.4	515.6	1079.0	1531.0	1546.2	1415.0	676.7
77.5°	48.4	49.7	54.3	59.0	102.7	236.6	607.1	943.1	917.9	776.8	326.7
80°	35.1	38.4	40.4	42.4	54.3	91.5	182.3	328.7	326.1	339.3	154.4
82.5°	22.5	25.2	27.2	28.5	32.5	43.7	54.3	73.6	79.5	131.9	61.6
85°	9.9	11.3	12.6	15.2	13.9	15.2	22.5	14.6	12.6	19.9	11.3
87.5°	0.0	0.0	2.0	3.3	2.7	1.3	4.0	2.7	2.0	2.0	2.0
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°	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2	418.2
2.5°	422.2	414.9	399.7	385.1	376.5	365.2	355.2	346.0	345.3	342.7	338.0
5°	427.5	413.6	385.1	357.9	337.4	315.5	296.9	282.3	277.0	273.1	267.8
7.5°	432.8	410.9	368.5	328.7	296.3	265.8	243.9	224.0	218.1	212.7	209.4
10°	434.8	406.3	349.3	296.3	253.8	221.4	198.2	183.6	178.3	175.6	173.6
12.5°	440.7	403.6	331.4	265.8	216.7	186.9	170.3	161.7	159.7	157.7	155.8
15°	448.7	403.6	313.5	235.9	187.6	163.7	153.8	147.8	146.5	145.8	144.5
17.5°	457.3	403.6	296.3	210.8	166.4	148.5	141.2	137.9	137.2	136.5	135.9
20°	469.2	404.3	277.7	188.9	151.1	137.2	131.2	127.3	126.6	125.9	125.9
22.5°	481.2	405.6	259.8	172.3	141.2	128.6	121.3	117.3	116.0	116.0	116.0
25°	496.4	409.6	243.2	158.4	132.6	120.6	111.3	108.0	107.4	107.4	106.7
27.5°	514.3	414.2	228.7	147.8	123.9	111.3	102.1	98.8	97.4	97.4	96.8
30°	533.5	418.9	216.7	139.8	115.3	102.1	93.5	89.5	88.1	88.8	88.1
32.5°	554.7	425.5	207.4	134.5	107.4	94.1	86.2	81.5	80.9	80.9	80.2
35°	590.5	444.1	206.1	131.9	100.7	88.1	80.2	75.6	74.9	74.9	74.2
37.5°	629.0	465.3	212.1	130.6	95.4	82.8	75.6	70.9	70.3	70.3	70.3
40°	661.4	481.2	218.7	130.6	92.1	78.2	71.6	67.6	67.6	67.6	67.6
42.5°	683.3	482.5	217.4	130.6	89.5	74.9	68.9	65.0	65.0	65.6	65.0
45°	715.8	489.1	212.1	128.6	87.5	72.2	66.3	63.0	62.3	63.0	63.0
47.5°	754.2	501.1	206.8	120.6	86.8	69.6	64.3	60.3	59.6	60.3	59.6
50°	790.7	511.7	204.1	110.0	85.5	66.9	61.6	57.7	57.0	57.7	57.0
52.5°	821.2	516.3	199.5	102.7	82.2	64.3	59.0	55.0	53.7	54.3	54.3
55°	845.7	515.0	192.9	96.8	76.2	61.6	55.7	52.4	50.4	50.4	49.7
57.5°	868.2	515.6	186.9	90.8	69.6	57.7	53.0	49.0	46.4	45.7	45.1
60°	876.8	512.3	176.3	82.8	63.0	54.3	49.7	45.1	42.4	41.8	41.1
62.5°	864.9	500.4	162.4	68.9	57.0	50.4	46.4	41.8	39.1	38.4	37.8
65°	831.1	477.9	141.2	54.3	51.7	45.7	42.4	39.1	35.8	34.5	33.8
67.5°	773.5	445.4	114.7	43.7	45.7	41.8	39.8	35.8	31.8	30.5	29.8
70°	691.3	402.3	86.2	37.1	40.4	37.1	35.8	31.8	28.5	27.2	26.5
72.5°	575.9	332.7	60.3	31.8	35.1	32.5	31.2	28.5	25.2	23.2	23.2
75°	435.4	238.6	39.8	27.2	29.2	27.8	25.8	23.9	21.9	20.5	19.9
77.5°	187.6	92.8	24.5	20.5	23.9	23.2	20.5	19.2	18.6	17.2	17.2
80°	80.9	37.8	15.2	15.2	17.2	16.6	15.9	14.6	14.6	13.9	13.3
82.5°	29.8	15.2	9.3	11.3	12.6	11.3	11.3	11.3	11.3	10.6	10.6
85°	7.3	4.6	4.6	6.6	7.3	6.6	7.3	6.6	6.6	6.6	6.0
87.5°	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.0	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)