

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: P836886

Luminaire Tested: **ARCH3-90-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

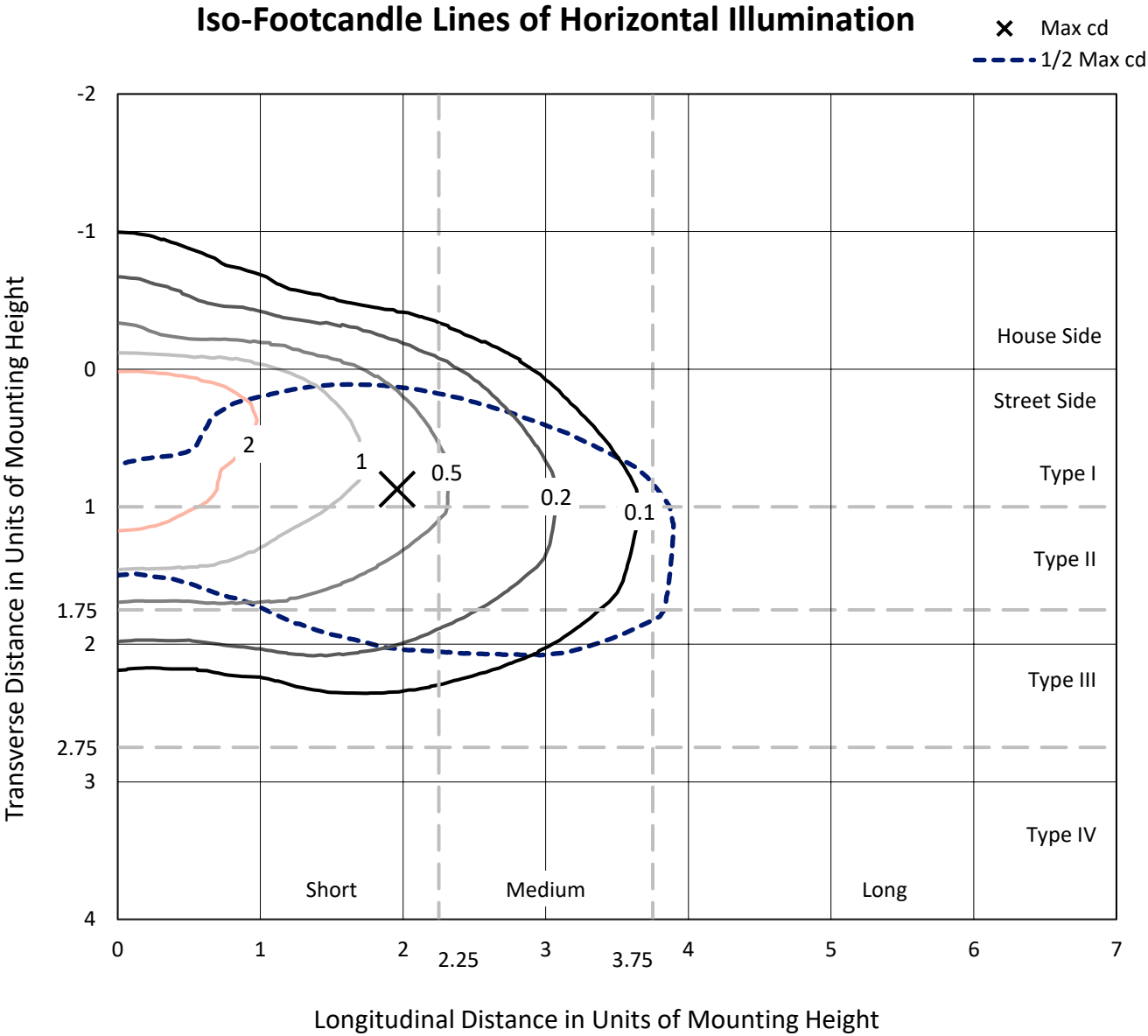
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8806 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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

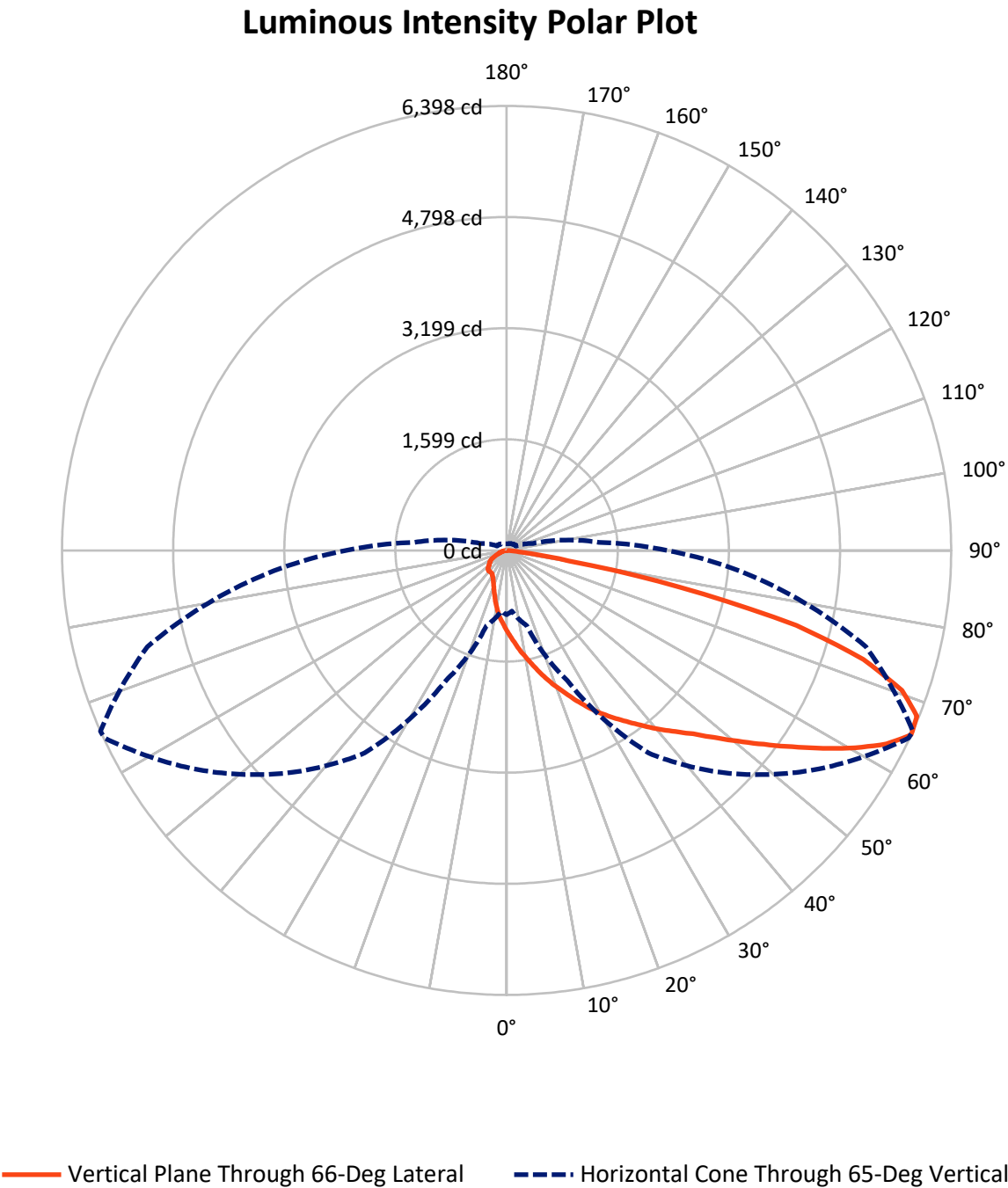


REPORT NUMBER: P836886
CATALOG NUMBER: ARCH3-90-722-U-T3-HSS



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

REPORT NUMBER: P836886
CATALOG NUMBER: ARCH3-90-722-U-T3-HSS



REPORT NUMBER: P836886

CATALOG NUMBER: ARCH3-90-722-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	931.4	0.0	931.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	7874.6	0.0	7874.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	8806.0	0.0	8806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.3
10°-20°	374.9	4.3
20°-30°	678.3	7.7
30°-40°	1060.7	12.0
40°-50°	1609.1	18.3
50°-60°	2044.4	23.2
60°-70°	1910.3	21.7
70°-80°	949.4	10.8
80°-90°	63.8	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°	8806.0	100.0
0°-180°	8806.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836886

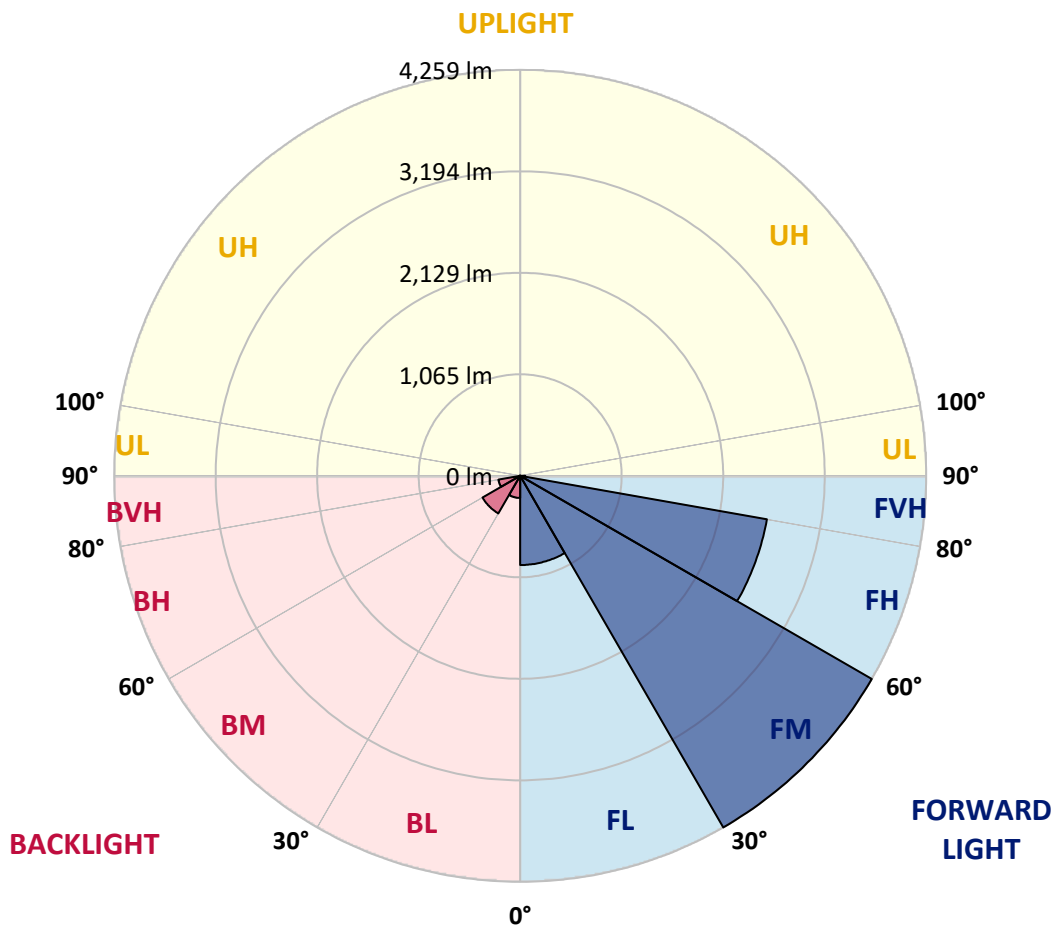
CATALOG NUMBER: ARCH3-90-722-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.6	10.6			
FM	(30°-60°)	4258.7	48.4			
FH	(60°-80°)	2627.7	29.8			G2/5000
FVH	(80°-90°)	52.5	0.6			G1/100
BL	(0°-30°)	232.6	2.6	B1/500		
BM	(30°-60°)	455.6	5.2	B1/1000		
BH	(60°-80°)	232.0	2.6	B1/500		G1/500
BVH	(80°-90°)	11.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P836886

CATALOG NUMBER: ARCH3-90-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4
2.5°	1361.2	1372.3	1377.8	1379.7	1337.2	1318.7	1300.3	1257.8	1248.5	1224.5	1193.1
5°	1601.3	1616.1	1612.4	1605.0	1553.3	1494.2	1446.2	1366.7	1353.8	1296.6	1226.4
7.5°	1837.7	1850.6	1847.0	1819.2	1762.0	1678.9	1599.5	1483.1	1464.6	1372.3	1259.6
10°	2035.3	2046.4	2044.6	2016.9	1948.5	1847.0	1750.9	1595.8	1573.6	1442.5	1287.3
12.5°	2197.9	2212.6	2210.8	2192.3	2131.4	2020.6	1911.6	1725.1	1697.3	1527.4	1326.1
15°	2325.3	2343.8	2343.8	2336.4	2293.9	2201.6	2077.8	1867.3	1834.0	1625.3	1374.1
17.5°	2402.9	2417.7	2430.6	2443.5	2414.0	2343.8	2231.1	2009.5	1974.4	1721.4	1424.0
20°	2443.5	2458.3	2467.5	2495.2	2500.8	2465.7	2377.0	2149.9	2112.9	1830.3	1481.3
22.5°	2510.0	2522.9	2524.8	2548.8	2559.9	2569.1	2513.7	2288.4	2258.8	1950.4	1545.9
25°	2620.8	2635.6	2630.1	2641.1	2643.0	2654.1	2648.5	2447.2	2417.7	2087.1	1623.5
27.5°	2763.0	2781.5	2777.8	2766.7	2750.1	2740.9	2764.9	2607.9	2580.2	2223.7	1702.9
30°	2916.3	2938.5	2933.0	2910.8	2866.5	2827.7	2860.9	2759.3	2733.5	2364.1	1791.5
32.5°	3071.5	3097.3	3095.5	3058.6	2982.8	2916.3	2966.2	2901.6	2883.1	2515.5	1887.6
35°	3173.1	3206.3	3202.6	3180.4	3082.6	3025.3	3086.3	3047.5	3034.5	2700.2	2026.1
37.5°	3337.4	3372.5	3341.1	3285.7	3173.1	3143.5	3217.4	3211.8	3202.6	2896.0	2172.0
40°	3736.4	3788.1	3705.0	3477.8	3293.1	3267.3	3372.5	3394.7	3385.5	3089.9	2303.1
42.5°	4153.8	4231.4	4102.1	3788.1	3511.1	3416.9	3542.5	3573.8	3562.8	3256.2	2421.4
45°	4406.8	4440.1	4310.8	4067.0	3897.1	3597.9	3723.5	3775.2	3765.9	3455.6	2572.8
47.5°	4613.7	4600.8	4453.0	4288.6	4320.0	3852.7	3928.5	4030.0	4022.7	3675.4	2739.0
50°	4658.0	4628.5	4569.4	4465.9	4549.0	4111.3	4144.6	4320.0	4312.6	3919.2	2907.1
52.5°	4345.9	4307.1	4467.8	4554.6	4526.9	4299.7	4382.8	4637.7	4634.0	4183.3	3067.8
55°	3566.5	3535.1	3967.2	4416.1	4502.9	4432.7	4646.9	4968.3	4988.6	4464.1	3213.7
57.5°	2805.5	2772.3	3197.1	4068.8	4414.2	4554.6	4955.4	5346.9	5372.8	4768.8	3352.2
60°	2236.7	2186.8	2511.9	3522.1	4248.0	4648.8	5252.7	5762.5	5766.2	5047.7	3437.2
62.5°	1520.0	1464.6	1824.8	2829.5	3969.1	4663.6	5481.7	6120.8	6135.6	5256.4	3452.0
65°	923.5	877.3	1121.1	2066.7	3557.2	4538.0	5485.4	6384.9	6397.8	5352.5	3363.3
67.5°	535.6	517.1	640.9	1287.3	2873.9	4200.0	5254.6	6344.3	6368.3	5311.8	3162.0
70°	312.1	310.3	356.5	637.2	2028.0	3529.5	4739.3	6002.6	6037.7	5099.4	2853.5
72.5°	229.0	232.7	251.2	341.7	1174.7	2541.4	4013.4	5315.5	5369.1	4683.9	2414.0
75°	181.0	182.8	199.5	232.7	616.9	1436.9	3006.8	4266.5	4308.9	3943.2	1885.7
77.5°	134.8	138.5	151.4	164.4	286.3	659.4	1691.8	2628.2	2558.0	2164.6	910.5
80°	97.9	107.1	112.7	118.2	151.4	254.9	507.9	916.1	908.7	945.6	430.3
82.5°	62.8	70.2	75.7	79.4	90.5	121.9	151.4	205.0	221.6	367.5	171.8
85°	27.7	31.4	35.1	42.5	38.8	42.5	62.8	40.6	35.1	55.4	31.4
87.5°	0.0	0.0	5.5	9.2	7.4	3.7	11.1	7.4	5.5	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836886

CATALOG NUMBER: ARCH3-90-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4	1165.4
2.5°	1176.5	1156.2	1113.7	1073.1	1049.1	1017.7	990.0	964.1	962.3	954.9	941.9
5°	1191.3	1152.5	1073.1	997.4	940.1	879.1	827.4	786.8	772.0	760.9	746.2
7.5°	1206.1	1145.1	1026.9	916.1	825.6	740.6	679.7	624.3	607.6	592.9	583.6
10°	1211.6	1132.2	973.3	825.6	707.4	616.9	552.2	511.6	496.8	489.4	483.9
12.5°	1228.2	1124.8	923.5	740.6	604.0	520.8	474.7	450.7	445.1	439.6	434.0
15°	1250.4	1124.8	873.6	657.5	522.7	456.2	428.5	411.9	408.2	406.3	402.6
17.5°	1274.4	1124.8	825.6	587.3	463.6	413.7	393.4	384.2	382.3	380.5	378.6
20°	1307.6	1126.6	773.9	526.4	421.1	382.3	365.7	354.6	352.8	350.9	350.9
22.5°	1340.9	1130.3	724.0	480.2	393.4	358.3	338.0	326.9	323.2	323.2	323.2
25°	1383.4	1141.4	677.8	441.4	369.4	336.1	310.3	301.1	299.2	299.2	297.4
27.5°	1433.2	1154.3	637.2	411.9	345.4	310.3	284.4	275.2	271.5	271.5	269.7
30°	1486.8	1167.3	604.0	389.7	321.4	284.4	260.4	249.3	245.6	247.5	245.6
32.5°	1545.9	1185.7	578.1	374.9	299.2	262.3	240.1	227.2	225.3	225.3	223.5
35°	1645.6	1237.5	574.4	367.5	280.7	245.6	223.5	210.6	208.7	208.7	206.9
37.5°	1752.8	1296.6	591.0	363.8	266.0	230.9	210.6	197.6	195.8	195.8	195.8
40°	1843.3	1340.9	609.5	363.8	256.7	217.9	199.5	188.4	188.4	188.4	188.4
42.5°	1904.2	1344.6	605.8	363.8	249.3	208.7	192.1	181.0	181.0	182.8	181.0
45°	1994.7	1363.0	591.0	358.3	243.8	201.3	184.7	175.5	173.6	175.5	175.5
47.5°	2101.8	1396.3	576.2	336.1	242.0	193.9	179.2	168.1	166.2	168.1	166.2
50°	2203.4	1425.8	568.9	306.6	238.3	186.5	171.8	160.7	158.8	160.7	158.8
52.5°	2288.4	1438.8	555.9	286.3	229.0	179.2	164.4	153.3	149.6	151.4	151.4
55°	2356.7	1435.1	537.5	269.7	212.4	171.8	155.1	145.9	140.4	140.4	138.5
57.5°	2419.5	1436.9	520.8	253.0	193.9	160.7	147.8	136.7	129.3	127.4	125.6
60°	2443.5	1427.7	491.3	230.9	175.5	151.4	138.5	125.6	118.2	116.4	114.5
62.5°	2410.3	1394.4	452.5	192.1	158.8	140.4	129.3	116.4	109.0	107.1	105.3
65°	2316.1	1331.7	393.4	151.4	144.1	127.4	118.2	109.0	99.7	96.0	94.2
67.5°	2155.4	1241.2	319.5	121.9	127.4	116.4	110.8	99.7	88.7	85.0	83.1
70°	1926.4	1121.1	240.1	103.4	112.7	103.4	99.7	88.7	79.4	75.7	73.9
72.5°	1605.0	927.2	168.1	88.7	97.9	90.5	86.8	79.4	70.2	64.6	64.6
75°	1213.4	664.9	110.8	75.7	81.3	77.6	72.0	66.5	60.9	57.3	55.4
77.5°	522.7	258.6	68.3	57.3	66.5	64.6	57.3	53.6	51.7	48.0	48.0
80°	225.3	105.3	42.5	42.5	48.0	46.2	44.3	40.6	40.6	38.8	36.9
82.5°	83.1	42.5	25.9	31.4	35.1	31.4	31.4	31.4	31.4	29.6	29.6
85°	20.3	12.9	12.9	18.5	20.3	18.5	20.3	18.5	18.5	18.5	16.6
87.5°	5.5	5.5	7.4	7.4	7.4	7.4	7.4	5.5	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)