

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: P1211080

Luminaire Tested: **ARCH4-160-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-160-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1305mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18976 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.7
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



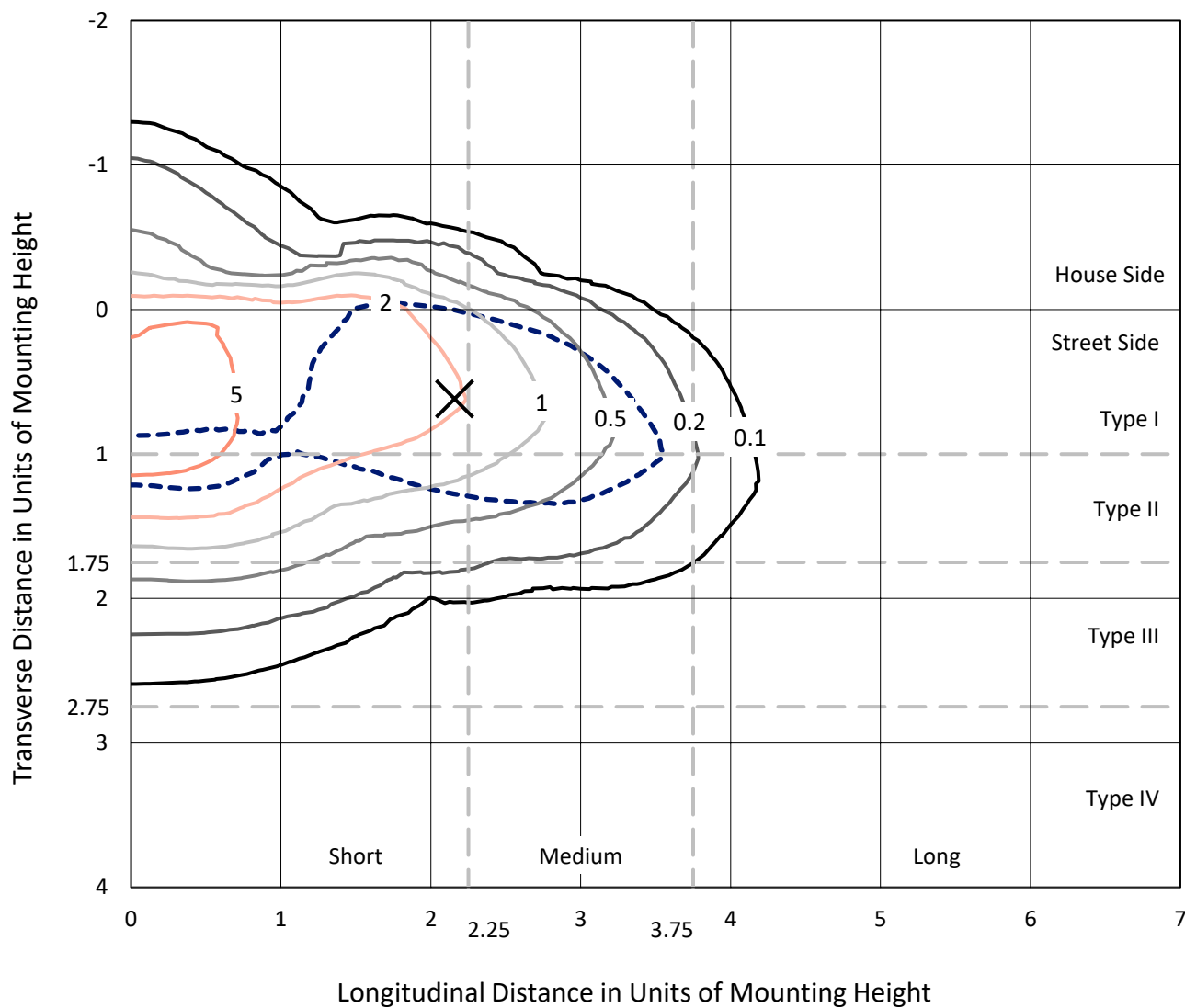
REPORT NUMBER: P1211080

CATALOG NUMBER: ARCH4-160-750-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

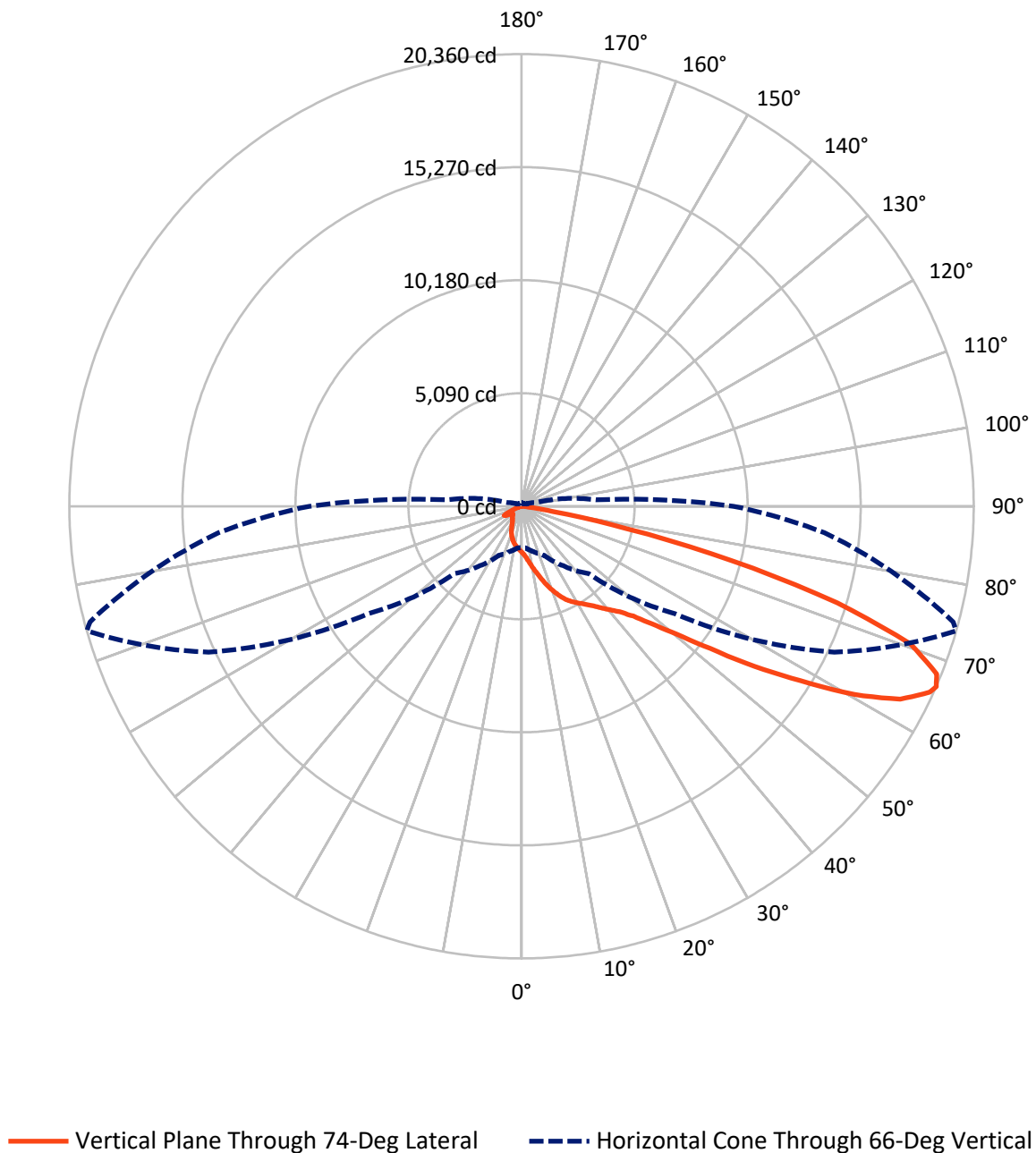
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
Type II - Short - N/A

REPORT NUMBER: P1211080
CATALOG NUMBER: ARCH4-160-750-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1211080

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.2	0.0	1860.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	17115.8	0.0	17115.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	18976.0	0.0	18976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.2	1.1
10°-20°	648.2	3.4
20°-30°	1237.0	6.5
30°-40°	2168.1	11.4
40°-50°	3717.7	19.6
50°-60°	4835.2	25.5
60°-70°	4377.1	23.1
70°-80°	1688.9	8.9
80°-90°	101.6	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°	18976.0	100.0
0°-180°	18976.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211080

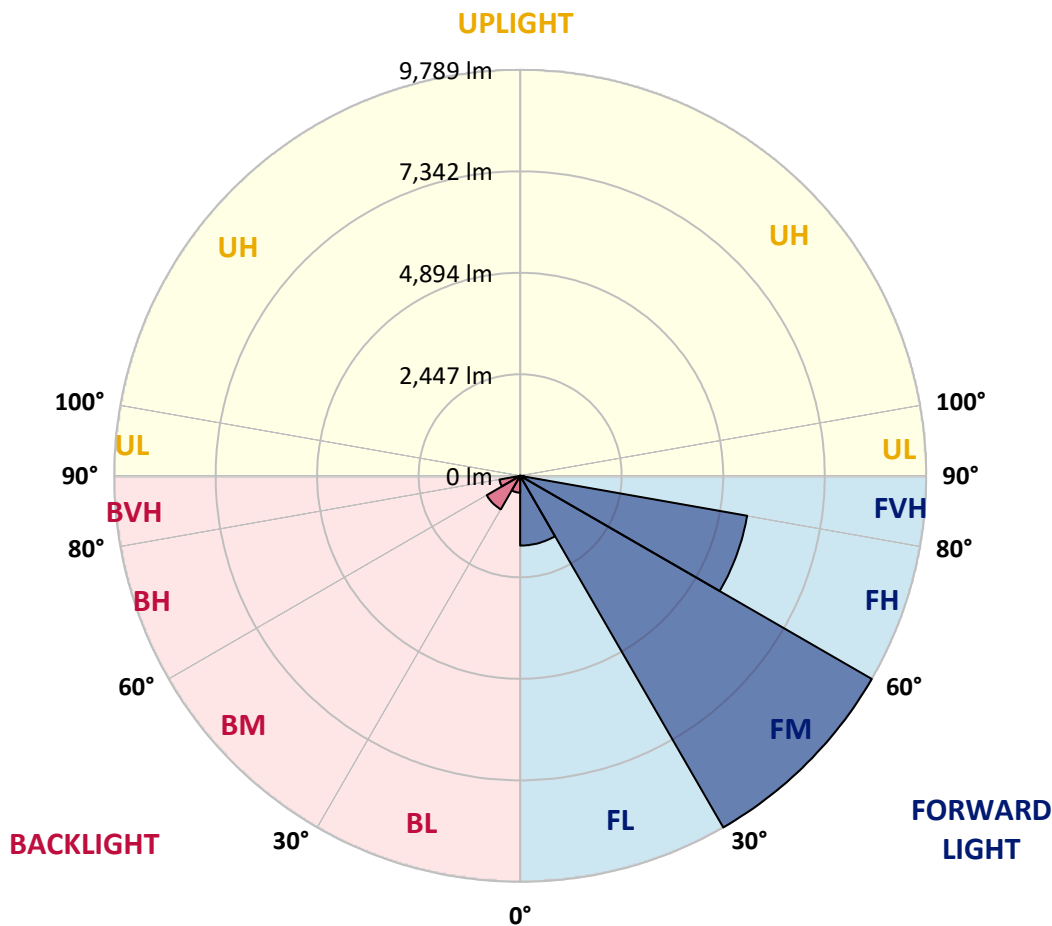
CATALOG NUMBER: ARCH4-160-750-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.6	8.9			
FM	(30°-60°)	9788.8	51.6			
FH	(60°-80°)	5557.4	29.3			G3/7500
FVH	(80°-90°)	88.0	0.5			G1/100
BL	(0°-30°)	405.8	2.1	B1/500		
BM	(30°-60°)	932.3	4.9	B1/1000		
BH	(60°-80°)	508.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	13.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



REPORT NUMBER: P1211080

CATALOG NUMBER: ARCH4-160-750-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	2487.0	2466.6	2429.1	2425.7	2395.0	2357.6	2292.8	2224.7	2177.0	2170.2	2112.3
5°	2977.6	2967.4	2929.9	2906.1	2848.2	2759.6	2609.7	2459.8	2333.7	2320.1	2190.6
7.5°	3107.1	3113.9	3120.7	3144.6	3124.1	3083.2	2970.8	2759.6	2562.0	2531.3	2306.5
10°	3127.5	3120.7	3120.7	3151.4	3209.3	3267.2	3253.6	3073.0	2817.5	2780.0	2466.6
12.5°	3349.0	3359.2	3335.4	3321.7	3311.5	3342.2	3444.4	3366.0	3086.7	3056.0	2660.8
15°	3635.2	3631.8	3597.7	3597.7	3567.0	3515.9	3580.7	3638.6	3410.3	3372.8	2882.2
17.5°	3843.0	3856.6	3853.2	3873.6	3863.4	3795.3	3761.2	3880.5	3744.2	3696.5	3134.3
20°	4009.9	4047.4	4061.0	4125.8	4156.4	4108.7	4020.1	4095.1	4064.4	4020.1	3389.9
22.5°	4187.1	4217.7	4241.6	4354.0	4439.2	4429.0	4316.5	4299.5	4374.5	4333.6	3642.0
25°	4364.2	4377.9	4449.4	4585.7	4722.0	4756.0	4640.2	4507.3	4653.8	4616.3	3866.8
27.5°	4558.4	4565.2	4650.4	4817.4	5008.1	5079.7	4987.7	4742.4	4868.5	4868.5	4071.2
30°	4912.7	4980.9	5015.0	5164.9	5331.8	5430.6	5321.6	4991.1	5059.2	5089.9	4285.9
32.5°	5675.9	5686.1	5675.9	5740.6	5774.7	5832.6	5706.6	5270.5	5253.4	5287.5	4497.1
35°	6841.1	6800.2	6691.1	6595.8	6398.2	6289.1	6125.6	5628.2	5491.9	5539.6	4704.9
37.5°	8254.9	8197.0	7948.3	7655.3	7232.8	6796.8	6592.3	6064.3	5795.1	5856.5	4929.8
40°	9604.0	9566.6	9270.2	8909.0	8186.8	7440.7	7008.0	6432.2	6132.4	6156.3	5158.0
42.5°	10714.7	10707.9	10459.2	10081.0	9154.3	8135.7	7498.6	6793.4	6486.7	6524.2	5396.5
45°	11556.2	11491.5	11307.5	11034.9	10091.2	8857.9	8091.4	7341.9	7055.7	7100.0	5754.3
47.5°	11556.2	11566.4	11685.7	11658.4	10745.4	9535.9	8738.7	8033.5	7897.2	7938.1	6343.6
50°	10615.9	10711.3	11242.8	11689.1	11086.0	10064.0	9437.1	8898.8	9038.5	9099.8	7372.5
52.5°	8755.7	8915.9	9839.1	10857.8	10833.9	10329.7	10159.4	9999.2	10626.1	10735.1	8892.0
55°	6653.7	6759.3	7961.9	9300.8	9736.9	10111.7	10789.6	11396.1	12728.2	12704.3	10435.3
57.5°	4970.7	5069.5	6105.2	7590.6	8166.3	9168.0	11113.3	12993.9	14813.2	14905.2	11883.3
60°	3655.6	3730.6	4612.9	5832.6	6663.9	7723.4	10983.8	14567.9	17215.1	17109.4	13160.8
62.5°	2705.1	2746.0	3383.1	4176.9	5280.7	6292.5	10169.6	15644.5	19133.1	18918.5	13872.9
65°	2091.8	2105.5	2435.9	2858.4	3839.6	4892.3	8956.7	15808.0	20192.7	19964.4	13859.3
66°	1863.6	1873.8	2115.7	2442.7	3267.2	4282.5	8425.3	15545.7	20359.6	20117.7	13688.9
67.5°	1563.8	1557.0	1700.0	1914.7	2453.0	3304.7	7481.5	14779.1	20162.0	20039.4	13143.8
70°	1158.3	1161.8	1233.3	1284.4	1434.3	1829.5	5403.3	12820.2	18581.2	18574.4	11648.2
72.5°	858.5	868.8	923.3	933.5	896.0	991.4	3113.9	10196.8	14864.3	14867.7	8708.0
75°	643.9	660.9	678.0	684.8	650.7	626.9	1407.0	6861.5	9777.8	9706.3	4929.8
77.5°	490.6	497.4	511.0	500.8	494.0	432.7	586.0	3345.6	4827.6	4398.3	1597.8
80°	357.7	357.7	371.4	357.7	354.3	310.0	320.2	1073.2	1417.3	1178.8	344.1
82.5°	224.9	221.4	231.7	228.3	221.4	197.6	187.4	299.8	327.1	293.0	166.9
85°	126.1	122.6	119.2	115.8	105.6	88.6	102.2	112.4	149.9	153.3	119.2
87.5°	44.3	44.3	40.9	37.5	30.7	30.7	37.5	37.5	54.5	54.5	61.3
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: P1211080

CATALOG NUMBER: ARCH4-160-750-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4	2071.4
2.5°	2085.0	2047.5	1993.0	1921.5	1870.4	1819.3	1764.8	1734.1	1689.8	1679.6	1693.2
5°	2122.5	2054.4	1918.1	1768.2	1638.7	1522.9	1413.9	1349.1	1284.4	1260.6	1270.8
7.5°	2200.9	2085.0	1853.4	1611.5	1396.8	1223.1	1093.6	1018.7	960.7	936.9	943.7
10°	2316.7	2139.5	1792.0	1434.3	1158.3	974.4	865.4	817.7	783.6	770.0	773.4
12.5°	2456.4	2217.9	1713.7	1257.1	953.9	793.8	742.7	732.5	725.7	718.9	722.3
15°	2613.1	2286.0	1621.7	1083.4	793.8	705.2	688.2	684.8	681.4	681.4	681.4
17.5°	2776.6	2347.4	1519.5	919.9	691.6	650.7	640.5	640.5	640.5	643.9	643.9
20°	2929.9	2395.0	1400.2	773.4	633.7	599.6	592.8	592.8	596.2	599.6	599.6
22.5°	3079.8	2415.5	1260.6	671.2	586.0	555.3	545.1	545.1	545.1	548.5	548.5
25°	3209.3	2415.5	1120.9	606.4	545.1	514.4	500.8	497.4	500.8	500.8	500.8
27.5°	3318.3	2405.3	984.6	562.1	504.2	473.6	459.9	456.5	463.3	466.7	466.7
30°	3434.2	2391.6	875.6	521.3	470.2	439.5	425.9	425.9	436.1	449.7	449.7
32.5°	3546.6	2401.9	790.4	487.2	436.1	412.2	398.6	402.0	422.5	442.9	442.9
35°	3665.8	2422.3	739.3	463.3	412.2	388.4	378.2	388.4	408.8	429.3	429.3
37.5°	3785.1	2446.2	708.6	442.9	391.8	367.9	361.1	374.8	398.6	419.0	422.5
40°	3911.1	2466.6	674.6	422.5	378.2	350.9	347.5	361.1	391.8	412.2	415.6
42.5°	4067.8	2507.5	633.7	405.4	364.5	330.5	333.9	344.1	374.8	405.4	408.8
45°	4374.5	2636.9	592.8	388.4	347.5	320.2	313.4	320.2	354.3	388.4	395.2
47.5°	4950.2	2929.9	548.5	371.4	330.5	313.4	286.2	293.0	323.7	361.1	364.5
50°	6054.1	3553.4	524.7	354.3	316.8	289.6	258.9	258.9	282.8	316.8	316.8
52.5°	7774.5	4670.9	538.3	340.7	299.8	265.7	235.1	231.7	245.3	269.1	269.1
55°	9631.3	5897.3	589.4	327.1	279.4	252.1	218.0	201.0	211.2	224.9	224.9
57.5°	11103.1	6514.0	729.1	320.2	255.5	241.9	197.6	173.8	184.0	197.6	197.6
60°	11750.4	6152.9	885.8	327.1	238.5	224.9	177.2	153.3	170.3	184.0	187.4
62.5°	11225.7	5066.1	950.5	310.0	214.6	201.0	173.8	143.1	163.5	173.8	177.2
65°	10091.2	3849.8	742.7	269.1	197.6	173.8	156.7	136.3	153.3	163.5	163.5
66°	9552.9	3355.8	633.7	248.7	190.8	163.5	149.9	136.3	149.9	156.7	160.1
67.5°	8718.3	2647.2	470.2	218.0	177.2	149.9	139.7	129.5	143.1	149.9	149.9
70°	6817.2	1577.4	282.8	170.3	153.3	132.9	126.1	119.2	129.5	132.9	132.9
72.5°	4268.8	749.5	180.6	126.1	129.5	126.1	105.6	112.4	115.8	119.2	119.2
75°	2068.0	296.4	122.6	92.0	105.6	119.2	85.2	98.8	102.2	109.0	105.6
77.5°	575.8	143.1	78.4	68.1	92.0	92.0	64.7	78.4	92.0	115.8	105.6
80°	166.9	92.0	51.1	51.1	64.7	64.7	44.3	54.5	61.3	68.1	71.5
82.5°	115.8	61.3	34.1	37.5	37.5	40.9	27.3	27.3	34.1	34.1	37.5
85°	92.0	27.3	20.4	23.8	17.0	20.4	13.6	13.6	17.0	13.6	13.6
87.5°	37.5	13.6	13.6	13.6	10.2	10.2	6.8	3.4	3.4	3.4	3.4
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)