

Scaled data based on original data using
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 766651 _400MP

Luminaire Tested: **OVF40PXX2D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766651_400MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF40PXX2D
Description: 400w METAL HALIDE TYPE II ROADWAY
Light Source: 400 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 40000 (1 lamp)
Luminaire Lumens: 26927.1 lumens
Efficiency: 67.3%
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 2.5' x L: 1.4' x H: 0.58')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G3

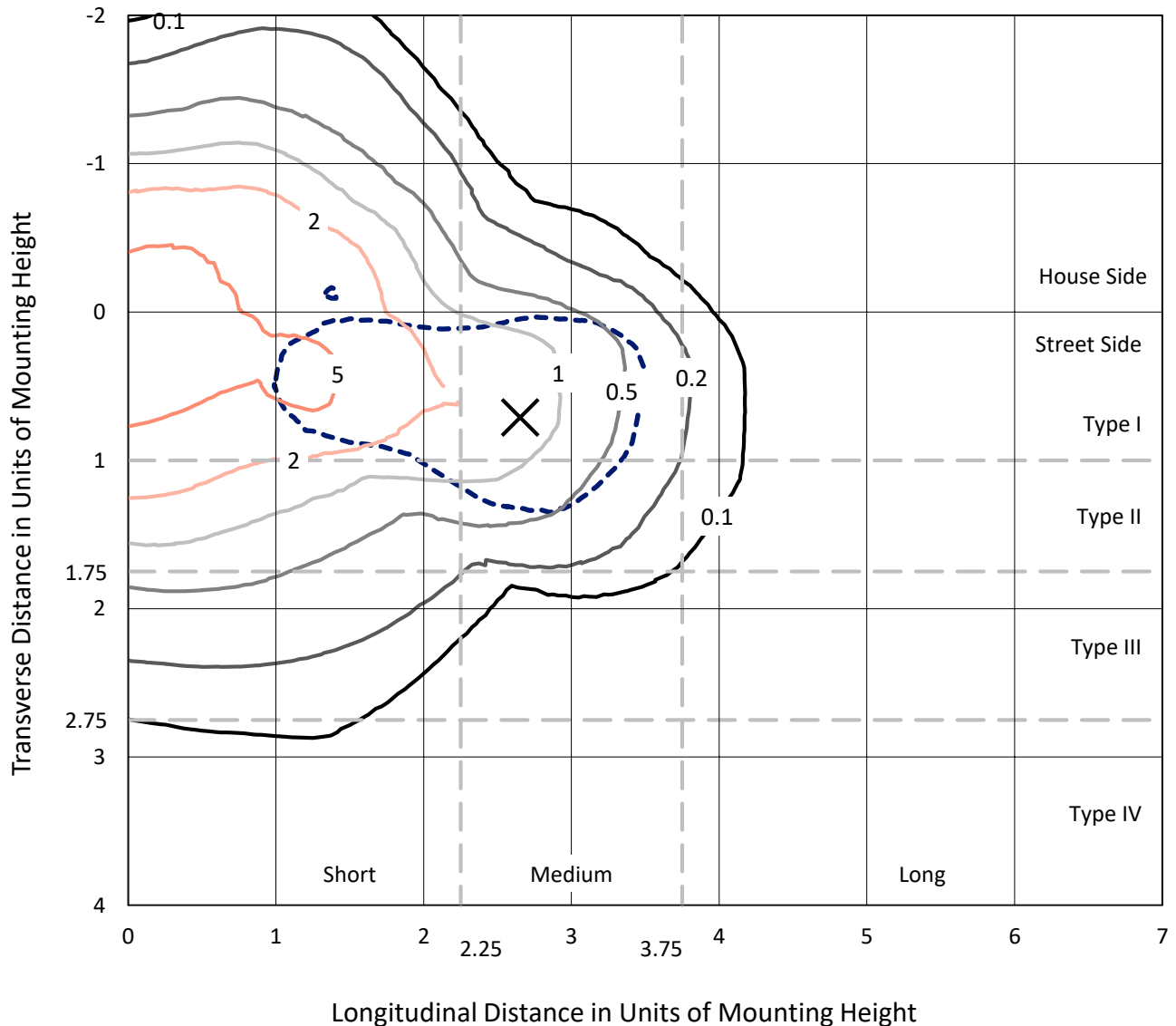
Input Watts (W): 452
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 766651_400MP
 CATALOG NUMBER: OVF40PXX2D

Iso-Footcandle Lines of Horizontal Illumination

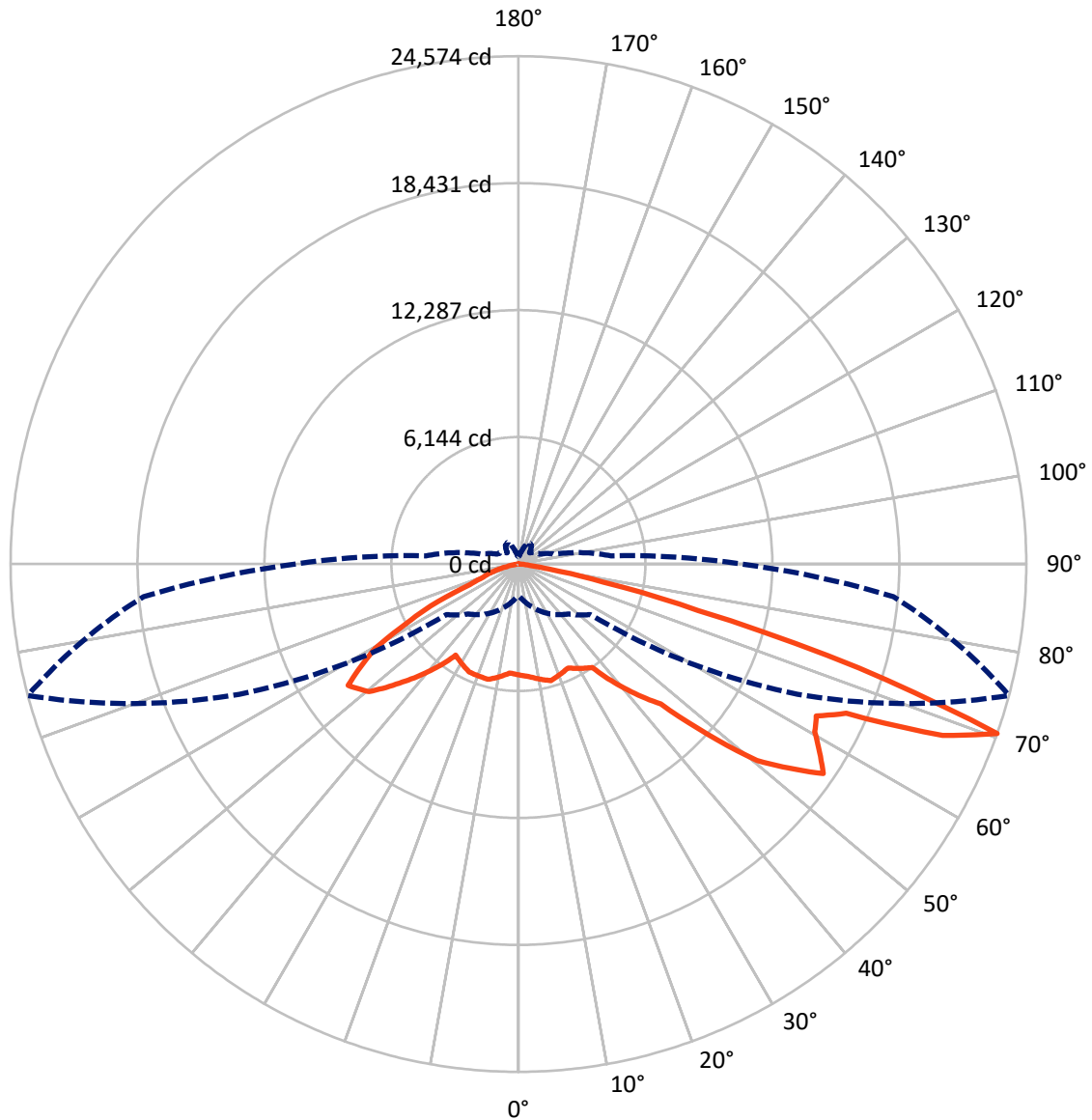
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: 766651_400MP
CATALOG NUMBER: OVF40PXX2D

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: OVF40PXX2D

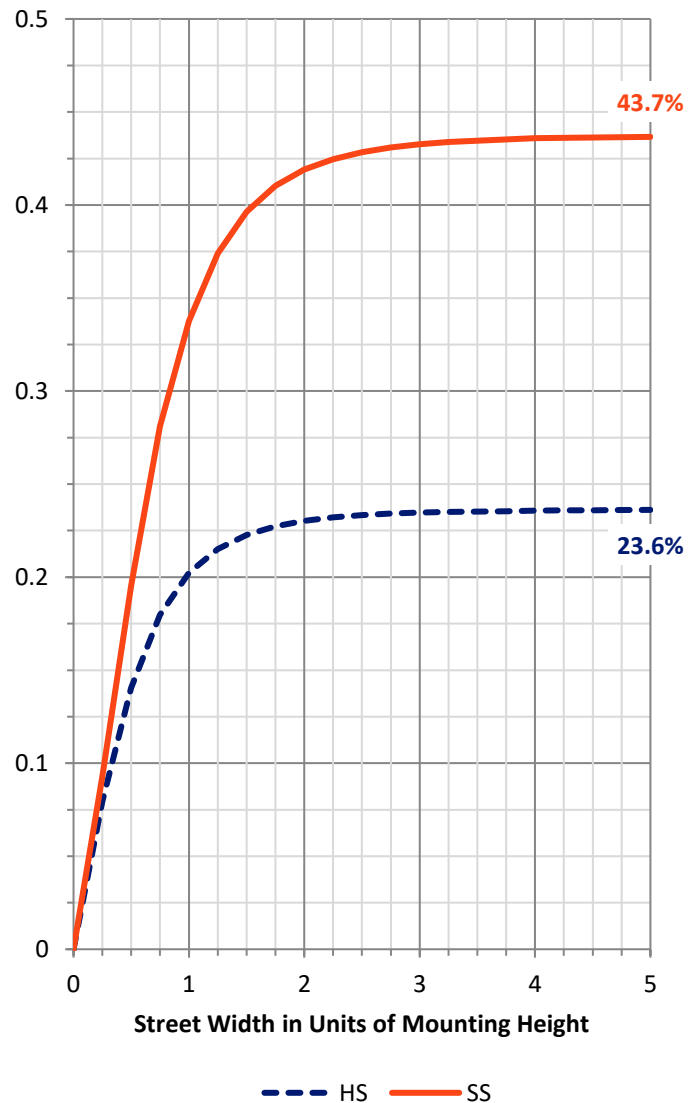
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9499.5	0.0	9499.5
	% Lamp	23.7	0.0	23.7
Street Side	Lumens	17427.6	0.0	17427.6
	% Lamp	43.6	0.0	43.6
Total	Lumens	26927.1	0.0	26927.1
	% Lamp	67.3	0.0	67.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	520.3	1.9	1.3
10°-20°	1598.0	5.9	4.0
20°-30°	2622.7	9.7	6.6
30°-40°	3554.5	13.2	8.9
40°-50°	4894.7	18.2	12.2
50°-60°	6199.9	23.0	15.5
60°-70°	5158.2	19.2	12.9
70°-80°	2436.2	9.0	6.1
80°-90°	101.1	0.4	0.3
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	26927.1	100.0	67.3
0°-180°	26927.1	100.0	67.3

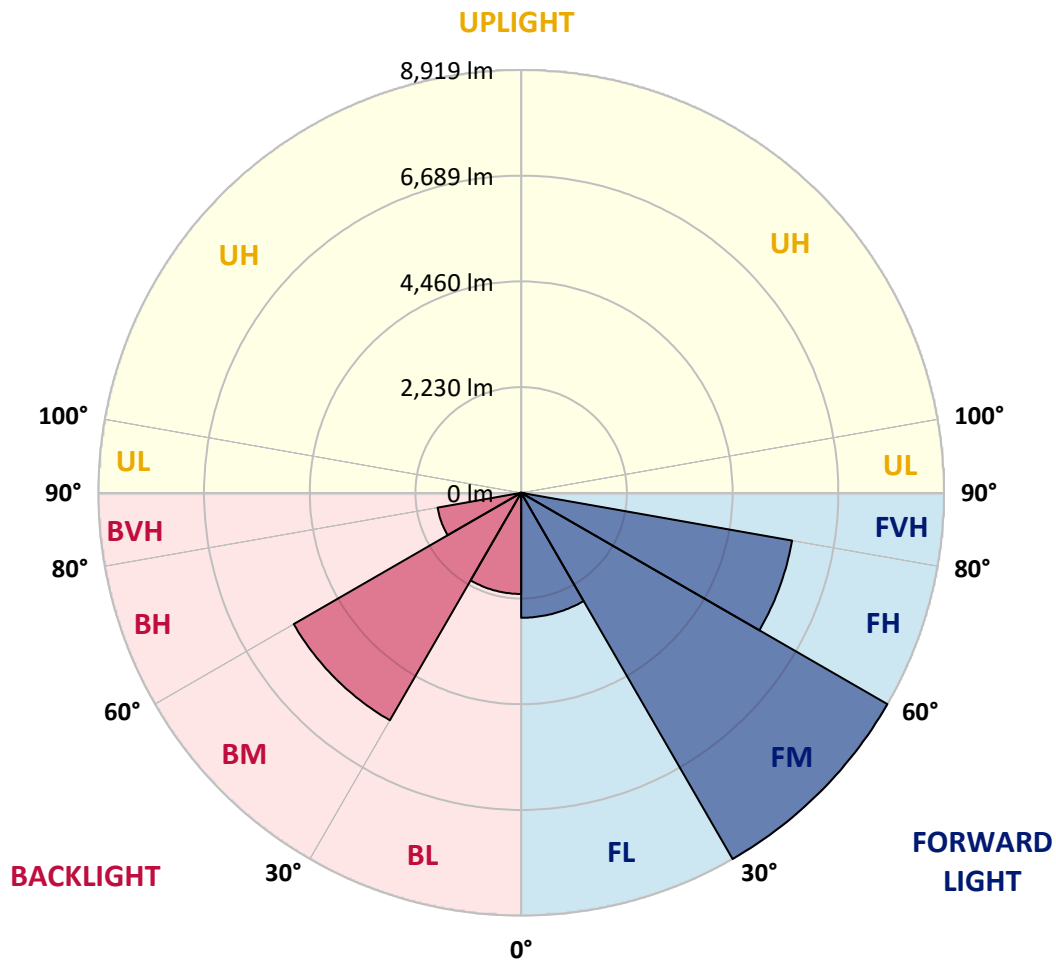


REPORT NUMBER: 766651_400MP
 CATALOG NUMBER: OVF40PXX2D

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2635.8	6.6			
FM	(30°-60°)	8919.0	22.3			
FH	(60°-80°)	5802.6	14.5			G3/7500
FVH	(80°-90°)	70.4	0.2			G1/100
BL	(0°-30°)	2133.4	5.3	B3/2500		
BM	(30°-60°)	5539.9	13.8	B4/8500		
BH	(60°-80°)	1791.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	30.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		13072.9	32.7			

BUG Rating: B4-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9
5°	5786.7	5888.9	5844.4	5778.9	5620.0	5702.2	5627.8	5560.0	5473.3	5382.2	5372.2
15°	6655.6	6704.4	6641.1	6617.8	6575.6	6461.1	6244.4	6003.3	5854.4	5785.6	5757.8
25°	6634.4	6755.6	6825.6	6924.4	6971.1	6687.8	6468.9	6060.0	5571.1	5308.9	5255.6
35°	6440.0	6348.9	6125.6	6162.2	6615.6	6982.2	7138.9	6795.6	6147.8	5638.9	5647.8
45°	5753.3	5774.4	5853.3	5531.1	5454.4	5966.7	7716.7	9130.0	9657.8	8043.3	8165.6
50°	5431.1	5382.2	5465.6	5386.7	5496.7	6033.3	9366.7	14677.8	14948.9	10345.6	10034.4
55°	4448.9	4615.6	4631.1	4753.3	5253.3	6403.3	10108.9	19272.2	17901.1	13191.1	11038.9
60°	3313.3	3540.0	3918.9	4033.3	4446.7	5424.4	8216.7	16042.2	16477.8	14287.8	10180.0
62.5°	2690.0	2912.2	3302.2	3724.4	4120.0	4870.0	6494.4	13960.0	16180.0	13652.2	9310.0
65°	2241.1	2478.9	2832.2	3344.4	3751.1	4376.7	5367.8	13147.8	17421.1	13540.0	8882.2
67.5°	2021.1	2086.7	2453.3	2921.1	3427.8	3972.2	4925.6	14000.0	22135.6	14548.9	9153.3
70°	1558.9	1671.1	2065.6	2514.4	2974.4	3416.7	4255.6	14904.4	24574.4	18211.1	10758.9
72.5°	1126.7	1271.1	1643.3	2300.0	2285.6	2166.7	2264.4	12093.3	17238.9	17312.2	10072.2
75°	741.1	857.8	1031.1	1544.4	713.3	794.4	1285.6	6727.8	8992.2	8630.0	5168.9
77.5°	418.9	343.3	400.0	355.6	214.4	360.0	820.0	2664.4	4198.9	2741.1	2278.9
80°	84.4	84.4	88.9	118.9	137.8	188.9	397.8	951.1	1470.0	887.8	771.1
82.5°	42.2	42.2	44.4	56.7	67.8	103.3	171.1	336.7	561.1	366.7	330.0
85°	16.7	18.9	16.7	21.1	23.3	37.8	61.1	116.7	237.8	156.7	144.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	48.9	6.7	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: 766651_400MP
 CATALOG NUMBER: OVF40PXX2D

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9	5368.9
5°	5340.0	5288.9	5211.1	5147.8	5171.1	5066.7	5098.9	5005.6	5031.1	5033.3
15°	5763.3	5763.3	5547.8	5230.0	4980.0	4791.1	4608.9	4456.7	4382.2	4363.3
25°	5238.9	5738.9	6426.7	6306.7	5547.8	4694.4	4503.3	4147.8	3774.4	3724.4
35°	5641.1	5355.6	5153.3	4832.2	4528.9	3912.2	3806.7	3603.3	2972.2	2940.0
45°	8274.4	7998.9	6961.1	5980.0	4891.1	3497.8	2773.3	2346.7	2077.8	2114.4
50°	10714.4	9506.7	7365.6	6075.6	4624.4	3395.6	2552.2	1918.9	1661.1	1622.2
55°	12472.2	10123.3	6348.9	5037.8	3944.4	3096.7	2260.0	1588.9	1306.7	1245.6
60°	9635.6	8041.1	4715.6	3537.8	2883.3	2276.7	1906.7	1283.3	900.0	847.8
62.5°	7657.8	6148.9	3751.1	3045.6	2531.1	2122.2	1711.1	1135.6	735.6	686.7
65°	6424.4	4702.2	3338.9	2764.4	2366.7	1993.3	1561.1	983.3	642.2	558.9
67.5°	4755.6	2556.7	2325.6	1862.2	1976.7	1845.6	1436.7	834.4	491.1	495.6
70°	4495.6	1830.0	1133.3	976.7	762.2	1091.1	1173.3	682.2	378.9	368.9
72.5°	4255.6	1507.8	868.9	576.7	470.0	540.0	694.4	448.9	277.8	283.3
75°	2986.7	1058.9	626.7	418.9	317.8	343.3	415.6	308.9	217.8	212.2
77.5°	1421.1	633.3	404.4	294.4	205.6	201.1	201.1	171.1	147.8	152.2
80°	601.1	336.7	220.0	175.6	135.6	114.4	100.0	84.4	78.9	88.9
82.5°	258.9	142.2	91.1	78.9	61.1	53.3	55.6	30.0	40.0	34.4
85°	121.1	34.4	14.4	16.7	14.4	12.2	16.7	4.4	11.1	8.9
87.5°	6.7	0.0	0.0	0.0	0.0	0.0	2.2	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
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)