

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 _350MP

Luminaire Tested: **OVF35PXX2D**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: 766651 _350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF35PXX2D
Description: 400w METAL HALIDE TYPE II ROADWAY
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 22214.9 lumens
Efficiency: 67.3%
Efficacy: 56.0 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: B3 - U0 - G3

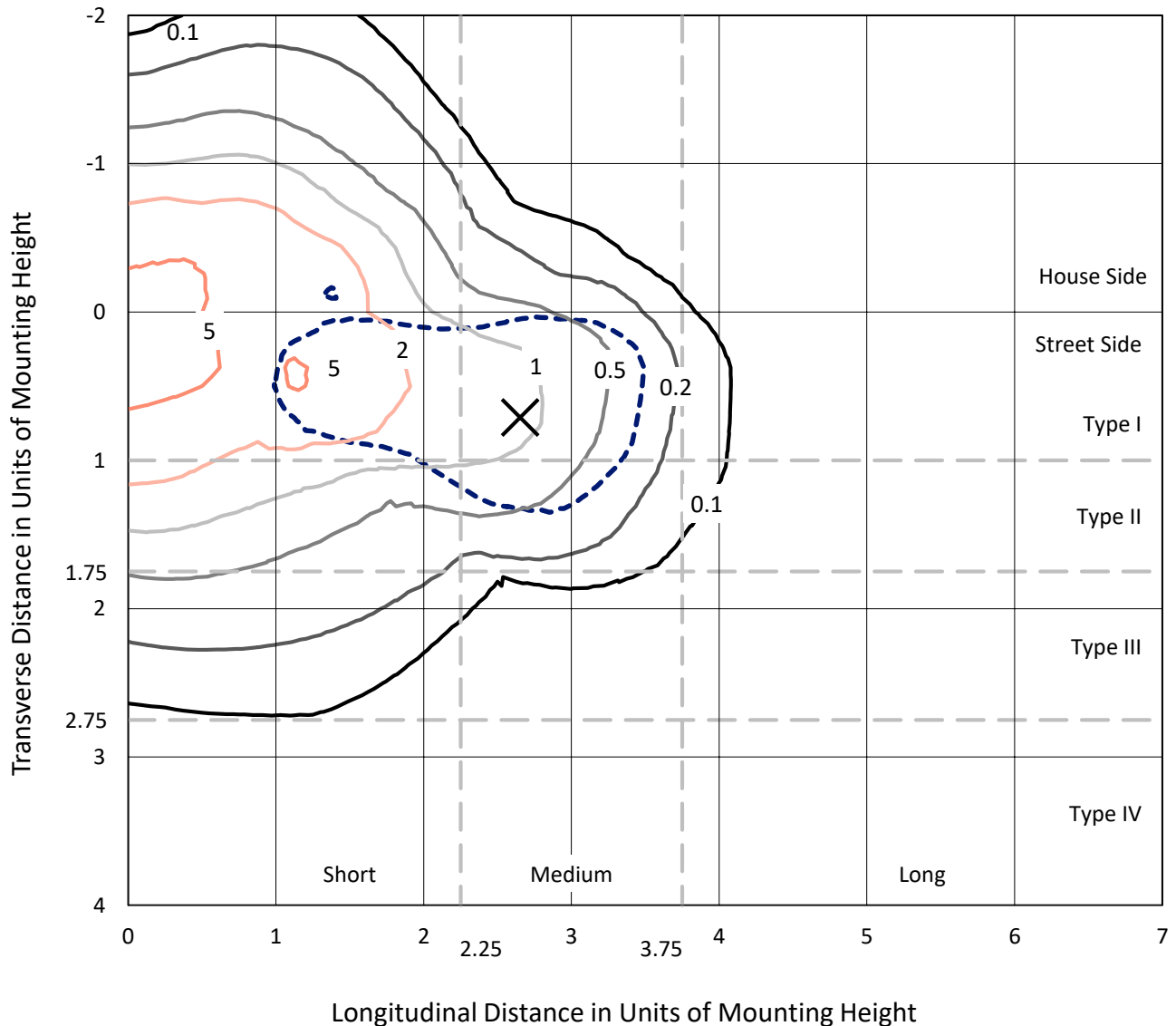
Input Watts (W): 397
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

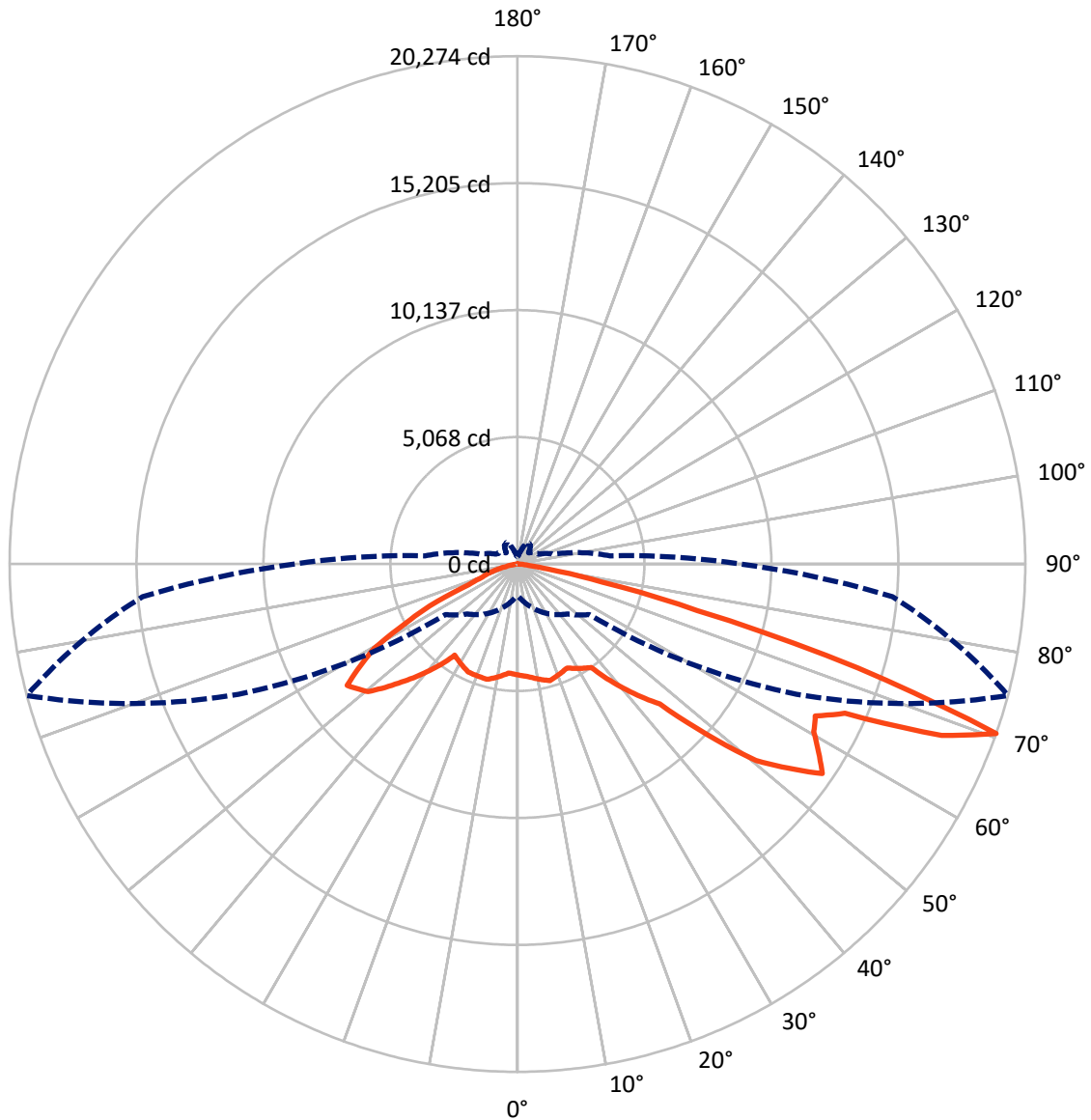
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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



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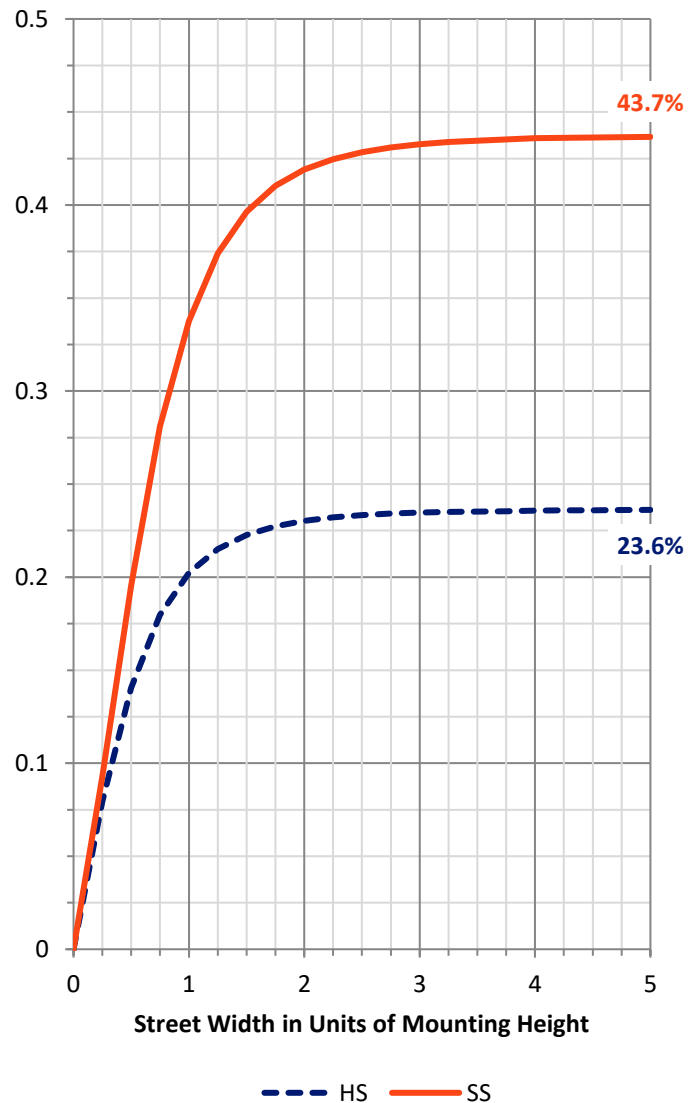
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7837.1	0.0	7837.1
	% Lamp	23.7	0.0	23.7
Street Side	Lumens	14377.8	0.0	14377.8
	% Lamp	43.6	0.0	43.6
Total	Lumens	22214.9	0.0	22214.9
	% Lamp	67.3	0.0	67.3

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	429.3	1.9	1.3
10°-20°	1318.4	5.9	4.0
20°-30°	2163.7	9.7	6.6
30°-40°	2932.5	13.2	8.9
40°-50°	4038.1	18.2	12.2
50°-60°	5114.9	23.0	15.5
60°-70°	4255.5	19.2	12.9
70°-80°	2009.9	9.0	6.1
80°-90°	83.4	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°	22214.9	100.0	67.3
0°-180°	22214.9	100.0	67.3

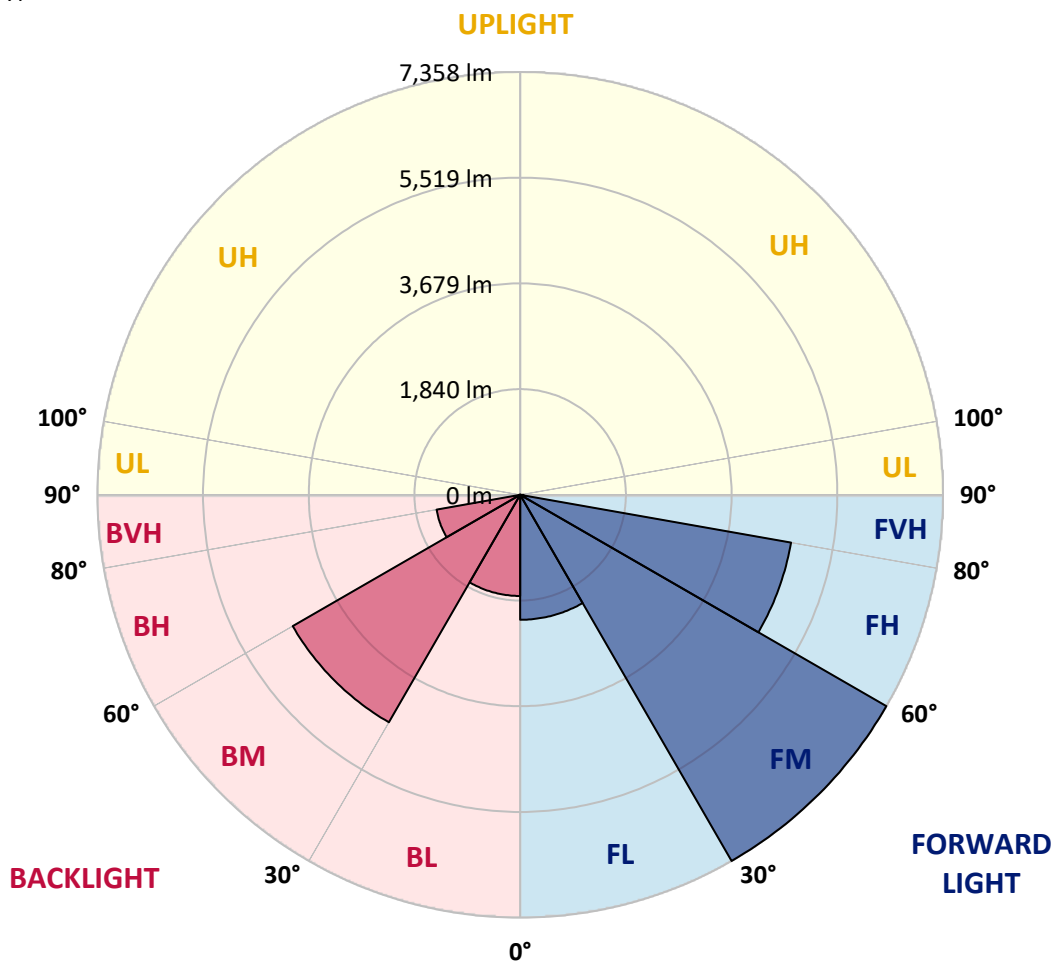


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2174.5	6.6			
FM	(30°-60°)	7358.2	22.3			
FH	(60°-80°)	4787.2	14.5			G2/5000
FVH	(80°-90°)	58.1	0.2			G1/100
BL	(0°-30°)	1760.0	5.3	B3/2500		
BM	(30°-60°)	4570.4	13.8	B3/5000		
BH	(60°-80°)	1478.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	25.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		10785.1	32.7			

BUG Rating: B3-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3
5°	4774.0	4858.3	4821.7	4767.6	4636.5	4704.3	4642.9	4587.0	4515.5	4440.3	4432.1
15°	5490.8	5531.2	5478.9	5459.7	5424.8	5330.4	5151.7	4952.8	4829.9	4773.1	4750.2
25°	5473.4	5573.3	5631.1	5712.7	5751.2	5517.4	5336.8	4999.5	4596.2	4379.8	4335.8
35°	5313.0	5237.8	5053.6	5083.8	5457.8	5760.3	5889.6	5606.3	5071.9	4652.1	4659.4
45°	4746.5	4763.9	4829.0	4563.2	4499.9	4922.5	6366.2	7532.2	7967.7	6635.8	6736.6
50°	4480.7	4440.3	4509.1	4444.0	4534.8	4977.5	7727.5	12109.2	12332.8	8535.1	8278.4
55°	3670.3	3807.8	3820.7	3921.5	4334.0	5282.8	8339.8	15899.6	14768.4	10882.7	9107.1
60°	2733.5	2920.5	3233.1	3327.5	3668.5	4475.2	6778.8	13234.8	13594.2	11787.4	8398.5
62.5°	2219.2	2402.6	2724.3	3072.7	3399.0	4017.8	5357.9	11517.0	13348.5	11263.1	7680.8
65°	1848.9	2045.1	2336.6	2759.2	3094.7	3610.8	4428.4	10846.9	14372.4	11170.5	7327.8
67.5°	1667.4	1721.5	2024.0	2409.9	2827.9	3277.1	4063.6	11550.0	18261.8	12002.8	7551.5
70°	1286.1	1378.7	1704.1	2074.4	2453.9	2818.8	3510.8	12296.2	20273.9	15024.2	8876.1
72.5°	929.5	1048.7	1355.8	1897.5	1885.6	1787.5	1868.2	9977.0	14222.1	14282.6	8309.6
75°	611.4	707.7	850.7	1274.2	588.5	655.4	1060.6	5550.4	7418.6	7119.8	4264.3
77.5°	345.6	283.2	330.0	293.3	176.9	297.0	676.5	2198.2	3464.1	2261.4	1880.1
80°	69.7	69.7	73.3	98.1	113.7	155.8	328.2	784.7	1212.8	732.4	636.2
82.5°	34.8	34.8	36.7	46.8	55.9	85.2	141.2	277.8	462.9	302.5	272.2
85°	13.8	15.6	13.8	17.4	19.2	31.2	50.4	96.2	196.2	129.2	119.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	40.3	5.5	21.1
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



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3	4429.3
5°	4405.5	4363.3	4299.2	4246.9	4266.2	4180.0	4206.6	4129.6	4150.7	4152.5
15°	4754.8	4754.8	4576.9	4314.8	4108.5	3952.7	3802.3	3676.8	3615.3	3599.8
25°	4322.1	4734.6	5302.0	5203.0	4576.9	3872.9	3715.2	3421.9	3113.9	3072.7
35°	4653.9	4418.3	4251.5	3986.6	3736.3	3227.6	3140.5	2972.8	2452.1	2425.5
45°	6826.4	6599.1	5742.9	4933.5	4035.2	2885.7	2288.0	1936.0	1714.2	1744.4
50°	8839.4	7843.0	6076.6	5012.3	3815.2	2801.3	2105.6	1583.1	1370.4	1338.3
55°	10289.6	8351.8	5237.8	4156.2	3254.2	2554.8	1864.5	1310.8	1078.0	1027.6
60°	7949.3	6633.9	3890.3	2918.7	2378.8	1878.2	1573.0	1058.8	742.5	699.4
62.5°	6317.7	5072.8	3094.7	2512.6	2088.2	1750.8	1411.7	936.8	606.8	566.5
65°	5300.2	3879.3	2754.6	2280.7	1952.5	1644.5	1287.9	811.2	529.8	461.1
67.5°	3923.3	2109.2	1918.6	1536.3	1630.8	1522.6	1185.2	688.4	405.2	408.8
70°	3708.8	1509.8	935.0	805.8	628.8	900.2	968.0	562.8	312.6	304.3
72.5°	3510.8	1243.9	716.8	475.8	387.8	445.5	572.9	370.3	229.2	233.8
75°	2464.0	873.6	517.0	345.6	262.2	283.2	342.8	254.8	179.7	175.1
77.5°	1172.4	522.5	333.7	242.9	169.6	165.9	165.9	141.2	121.9	125.6
80°	495.9	277.8	181.5	144.8	111.8	94.4	82.5	69.7	65.1	73.3
82.5°	213.6	117.3	75.2	65.1	50.4	44.0	45.8	24.8	33.0	28.4
85°	99.9	28.4	11.9	13.8	11.9	10.1	13.8	3.7	9.2	7.3
87.5°	5.5	0.0	0.0	0.0	0.0	0.0	1.8	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)