

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 \_320MP

Luminaire Tested: **OVF32PXX2D**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-31-95  
Report Number: 766651 \_320MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: OVF32PXX2D  
Description: 400w METAL HALIDE TYPE II ROADWAY  
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 30000 (1 lamp)  
Luminaire Lumens: 20195.3 lumens  
Efficiency: 67.3%  
Efficacy: 57.7 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

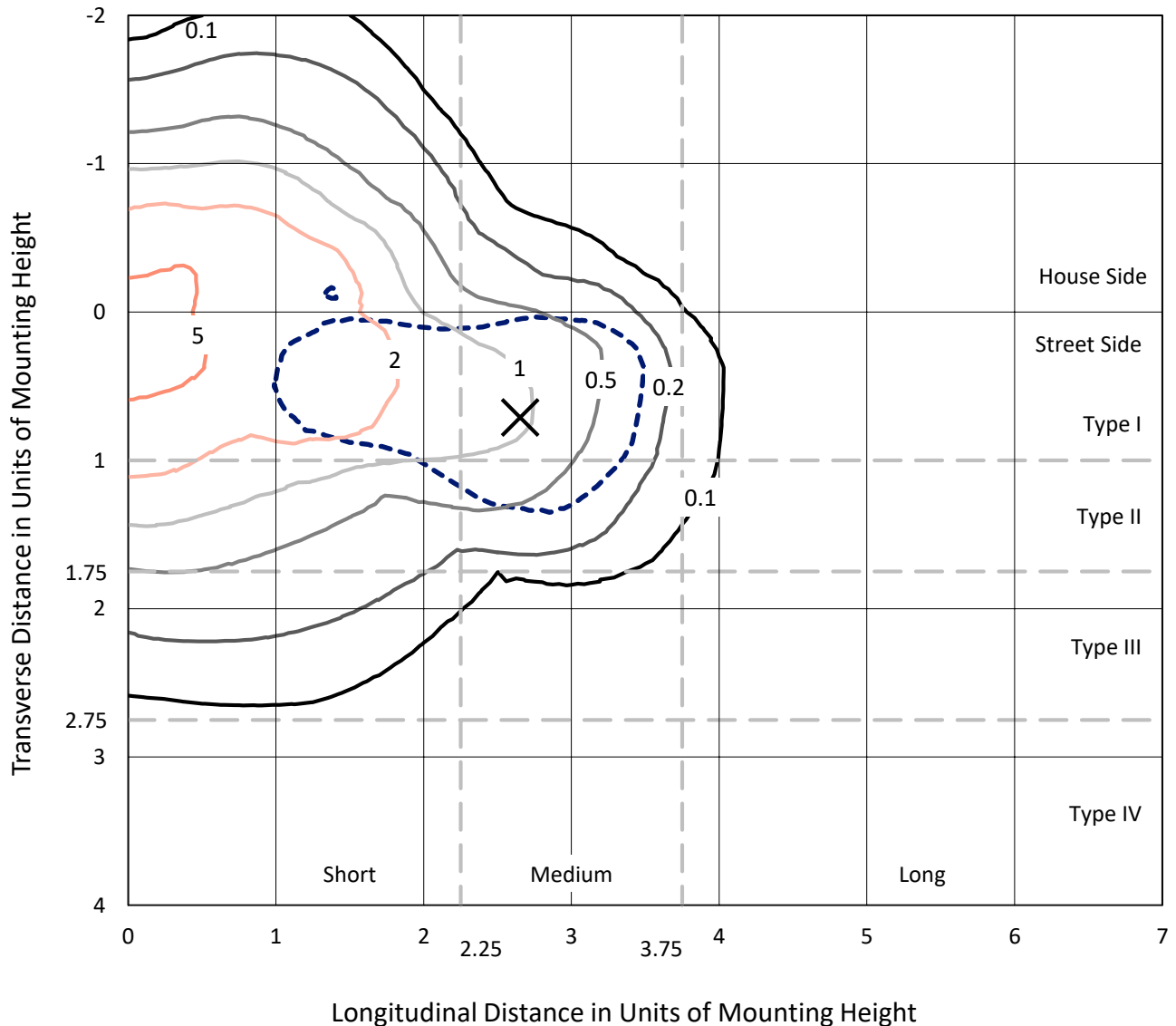
Input Watts (W): 350  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

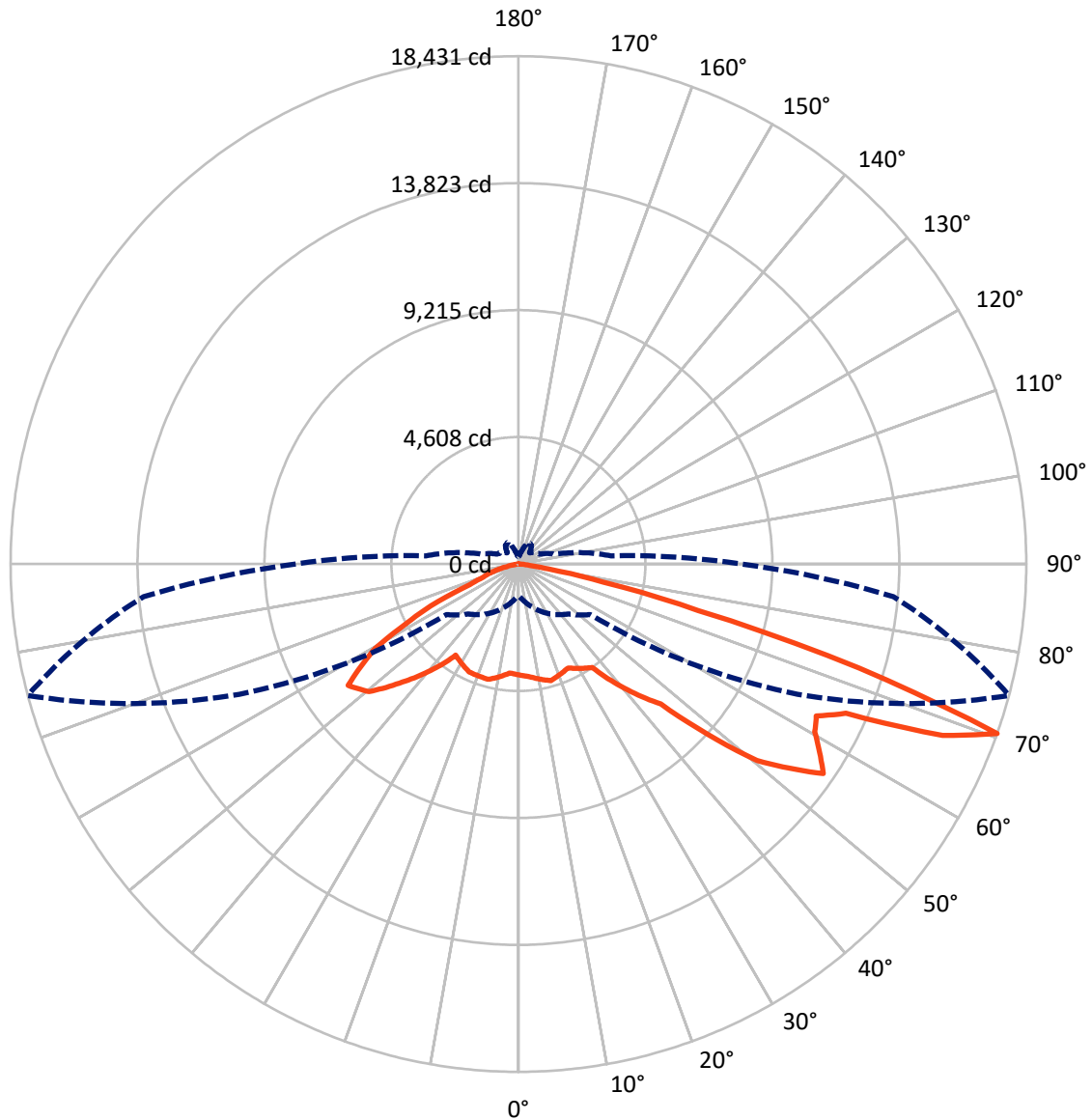
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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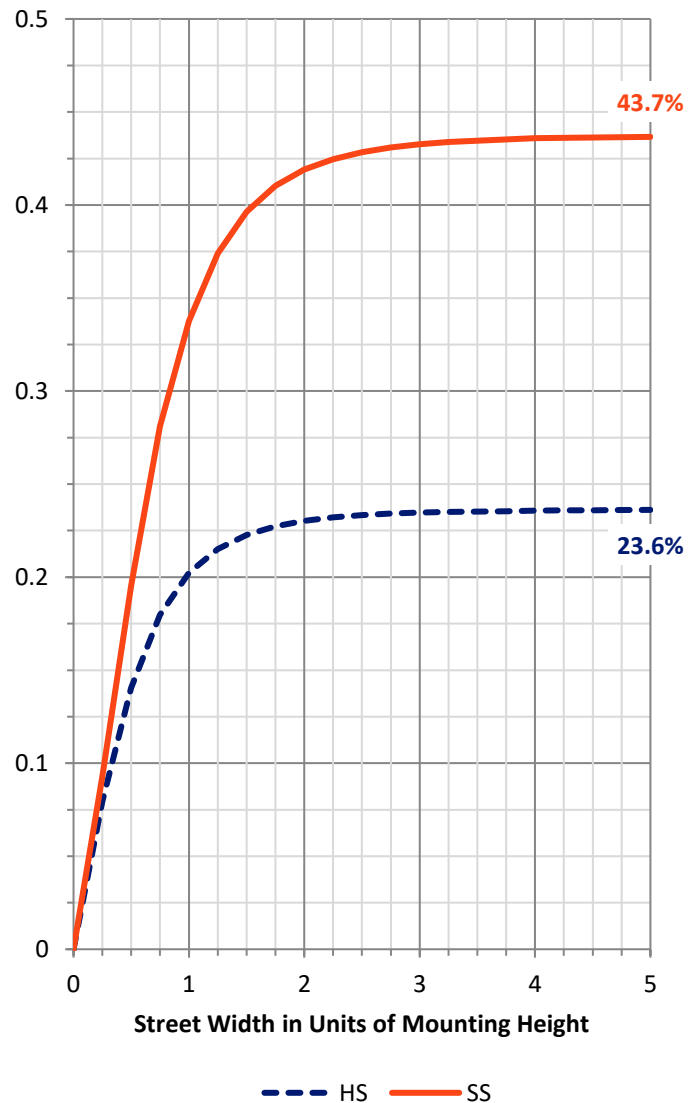
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7124.6	0.0	7124.6
	% Lamp	23.7	0.0	23.7
<b>Street Side</b>	Lumens	13070.7	0.0	13070.7
	% Lamp	43.6	0.0	43.6
<b>Total</b>	Lumens	20195.3	0.0	20195.3
	% Lamp	67.3	0.0	67.3

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	390.2	1.9	1.3
10°-20°	1198.5	5.9	4.0
20°-30°	1967.0	9.7	6.6
30°-40°	2665.9	13.2	8.9
40°-50°	3671.0	18.2	12.2
50°-60°	4649.9	23.0	15.5
60°-70°	3868.6	19.2	12.9
70°-80°	1827.2	9.0	6.1
80°-90°	75.8	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°	20195.3	100.0	67.3
0°-180°	20195.3	100.0	67.3

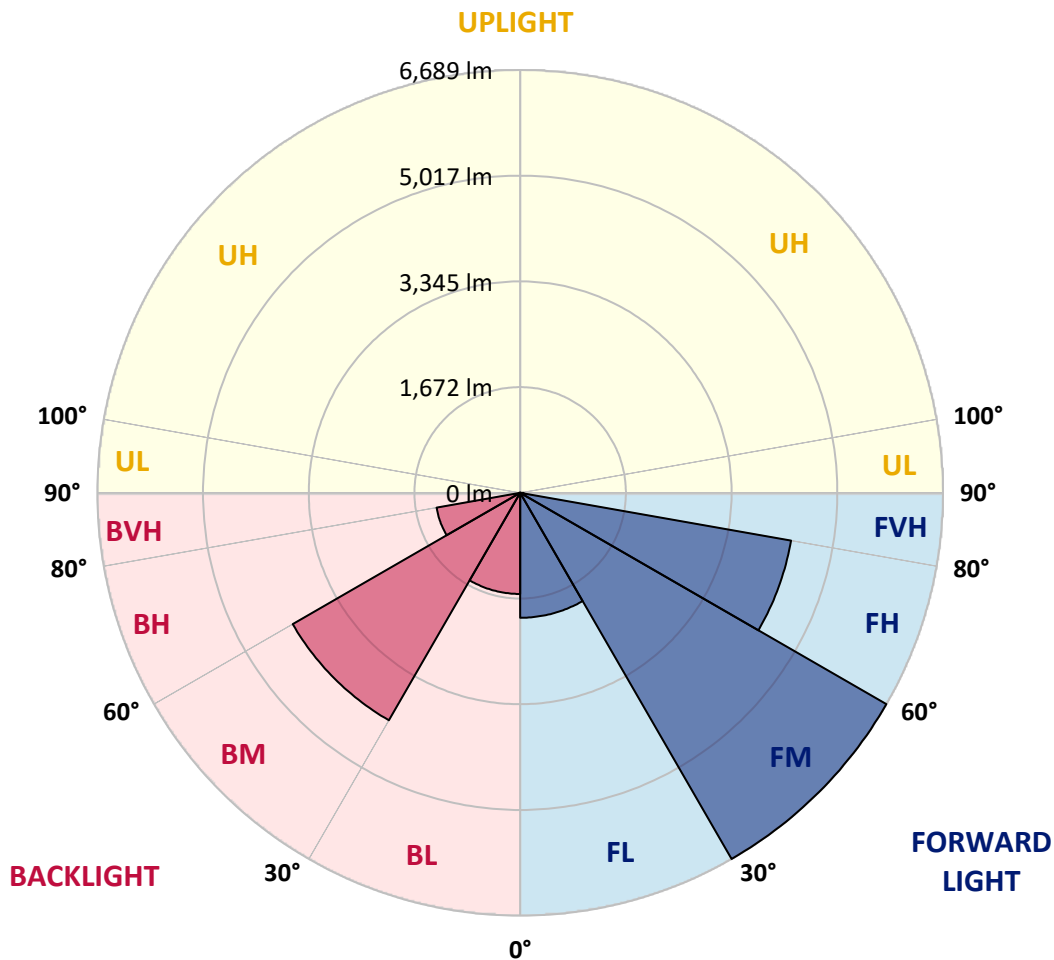


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1976.9	6.6			
FM (30°-60°)	6689.3	22.3			
FH (60°-80°)	4352.0	14.5			G2/5000
FVH (80°-90°)	52.8	0.2			G1/100
BL (0°-30°)	1600.0	5.3	B3/2500		
BM (30°-60°)	4154.9	13.8	B3/5000		
BH (60°-80°)	1343.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	23.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	
Trapped Light	9804.7	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°	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7
5°	4340.0	4416.7	4383.3	4334.2	4215.0	4276.7	4220.8	4170.0	4105.0	4036.7	4029.2
15°	4991.7	5028.3	4980.8	4963.3	4931.7	4845.8	4683.3	4502.5	4390.8	4339.2	4318.3
25°	4975.8	5066.7	5119.2	5193.3	5228.3	5015.8	4851.7	4545.0	4178.3	3981.7	3941.7
35°	4830.0	4761.7	4594.2	4621.7	4961.7	5236.7	5354.2	5096.7	4610.8	4229.2	4235.8
45°	4315.0	4330.8	4390.0	4148.3	4090.8	4475.0	5787.5	6847.5	7243.3	6032.5	6124.2
50°	4073.3	4036.7	4099.2	4040.0	4122.5	4525.0	7025.0	11008.3	11211.7	7759.2	7525.8
55°	3336.7	3461.7	3473.3	3565.0	3940.0	4802.5	7581.7	14454.2	13425.8	9893.3	8279.2
60°	2485.0	2655.0	2939.2	3025.0	3335.0	4068.3	6162.5	12031.7	12358.3	10715.8	7635.0
62.5°	2017.5	2184.2	2476.7	2793.3	3090.0	3652.5	4870.8	10470.0	12135.0	10239.2	6982.5
65°	1680.8	1859.2	2124.2	2508.3	2813.3	3282.5	4025.8	9860.8	13065.8	10155.0	6661.7
67.5°	1515.8	1565.0	1840.0	2190.8	2570.8	2979.2	3694.2	10500.0	16601.7	10911.7	6865.0
70°	1169.2	1253.3	1549.2	1885.8	2230.8	2562.5	3191.7	11178.3	18430.8	13658.3	8069.2
72.5°	845.0	953.3	1232.5	1725.0	1714.2	1625.0	1698.3	9070.0	12929.2	12984.2	7554.2
75°	555.8	643.3	773.3	1158.3	535.0	595.8	964.2	5045.8	6744.2	6472.5	3876.7
77.5°	314.2	257.5	300.0	266.7	160.8	270.0	615.0	1998.3	3149.2	2055.8	1709.2
80°	63.3	63.3	66.7	89.2	103.3	141.7	298.3	713.3	1102.5	665.8	578.3
82.5°	31.7	31.7	33.3	42.5	50.8	77.5	128.3	252.5	420.8	275.0	247.5
85°	12.5	14.2	12.5	15.8	17.5	28.3	45.8	87.5	178.3	117.5	108.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	36.7	5.0	19.2
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°	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7	4026.7
5°	4005.0	3966.7	3908.3	3860.8	3878.3	3800.0	3824.2	3754.2	3773.3	3775.0
15°	4322.5	4322.5	4160.8	3922.5	3735.0	3593.3	3456.7	3342.5	3286.7	3272.5
25°	3929.2	4304.2	4820.0	4730.0	4160.8	3520.8	3377.5	3110.8	2830.8	2793.3
35°	4230.8	4016.7	3865.0	3624.2	3396.7	2934.2	2855.0	2702.5	2229.2	2205.0
45°	6205.8	5999.2	5220.8	4485.0	3668.3	2623.3	2080.0	1760.0	1558.3	1585.8
50°	8035.8	7130.0	5524.2	4556.7	3468.3	2546.7	1914.2	1439.2	1245.8	1216.7
55°	9354.2	7592.5	4761.7	3778.3	2958.3	2322.5	1695.0	1191.7	980.0	934.2
60°	7226.7	6030.8	3536.7	2653.3	2162.5	1707.5	1430.0	962.5	675.0	635.8
62.5°	5743.3	4611.7	2813.3	2284.2	1898.3	1591.7	1283.3	851.7	551.7	515.0
65°	4818.3	3526.7	2504.2	2073.3	1775.0	1495.0	1170.8	737.5	481.7	419.2
67.5°	3566.7	1917.5	1744.2	1396.7	1482.5	1384.2	1077.5	625.8	368.3	371.7
70°	3371.7	1372.5	850.0	732.5	571.7	818.3	880.0	511.7	284.2	276.7
72.5°	3191.7	1130.8	651.7	432.5	352.5	405.0	520.8	336.7	208.3	212.5
75°	2240.0	794.2	470.0	314.2	238.3	257.5	311.7	231.7	163.3	159.2
77.5°	1065.8	475.0	303.3	220.8	154.2	150.8	150.8	128.3	110.8	114.2
80°	450.8	252.5	165.0	131.7	101.7	85.8	75.0	63.3	59.2	66.7
82.5°	194.2	106.7	68.3	59.2	45.8	40.0	41.7	22.5	30.0	25.8
85°	90.8	25.8	10.8	12.5	10.8	9.2	12.5	3.3	8.3	6.7
87.5°	5.0	0.0	0.0	0.0	0.0	0.0	1.7	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)