

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: E366-37

Luminaire Tested: **UTR25SXX33**

Issue Date: 3/3/2020

Test Information

Test Method: LM-31-95
Report Number: E366-37
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTR25SXX33
Description: 250W HPS TYPE III TRADITIONAIRE POST TOP
Light Source: 250W HPS COATED E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 17696.2 lumens
Efficiency: 59.0%
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 0.92' x H: 1')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U4 - G5

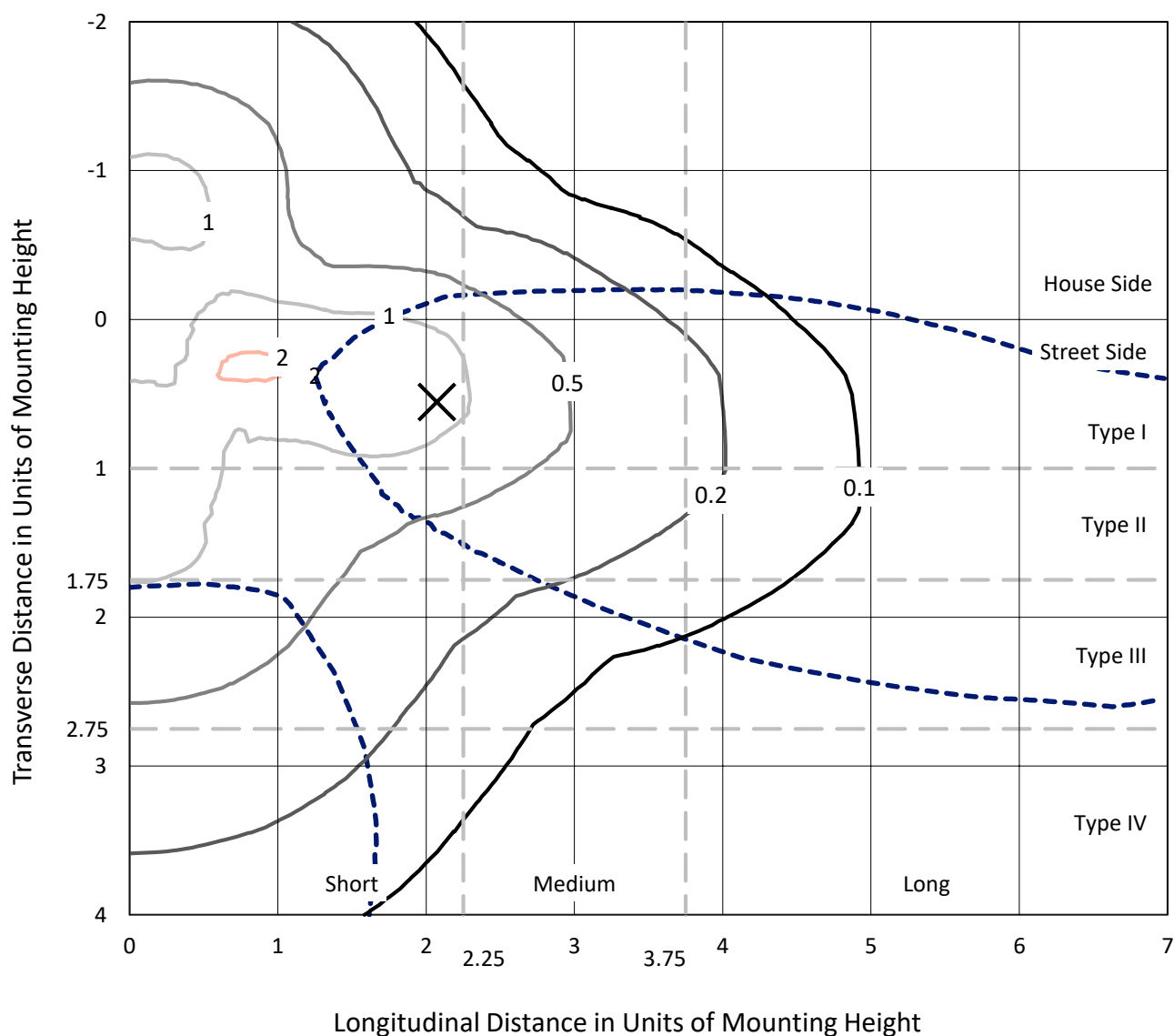
Input Watts (W): 300
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: E366-37
CATALOG NUMBER: UTR25SXX33

Iso-Footcandle Lines of Horizontal Illumination

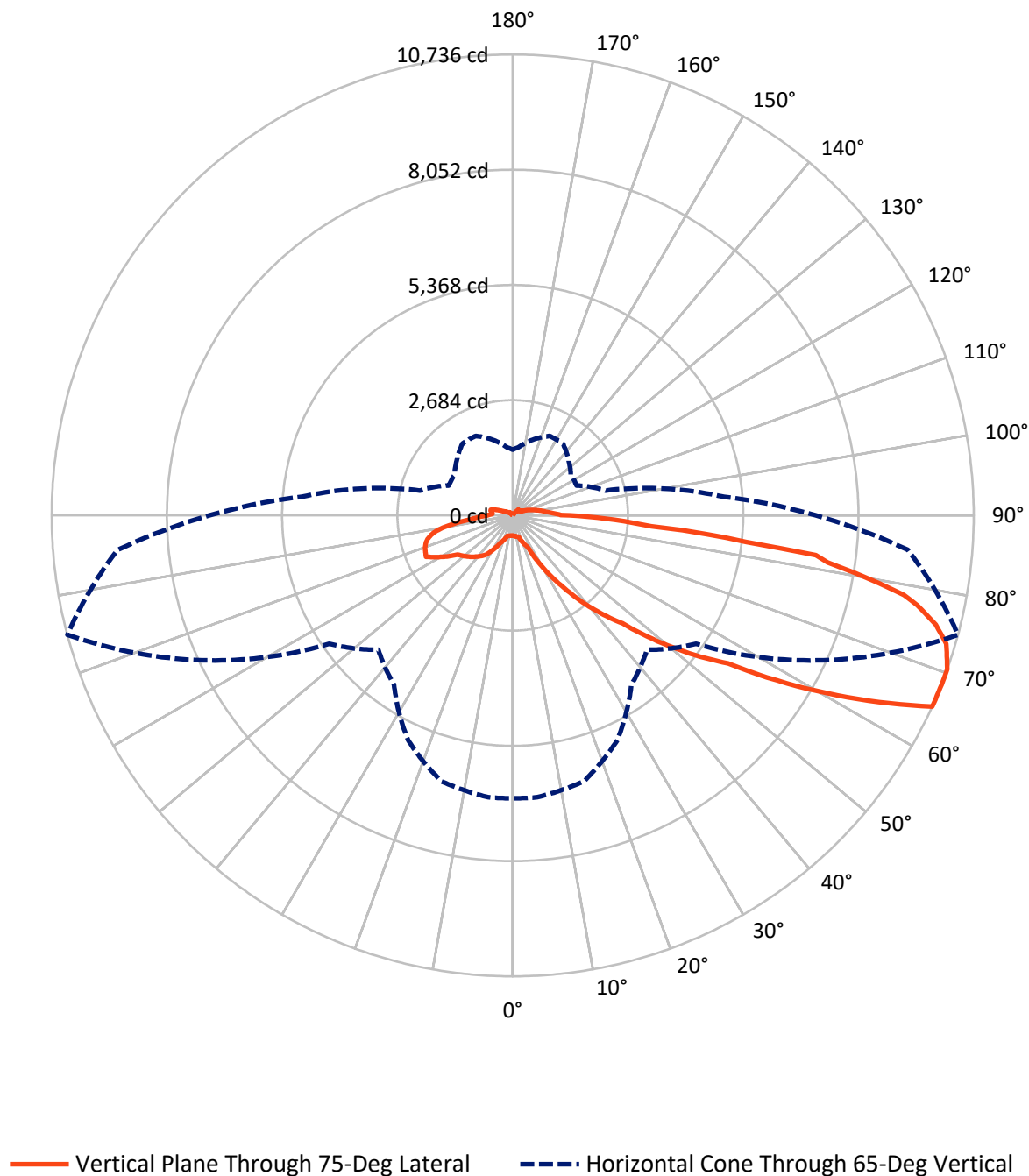
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: E366-37
CATALOG NUMBER: UTR25SXX33

Luminous Intensity Polar Plot



REPORT NUMBER: E366-37

CATALOG NUMBER: UTR25SXX33

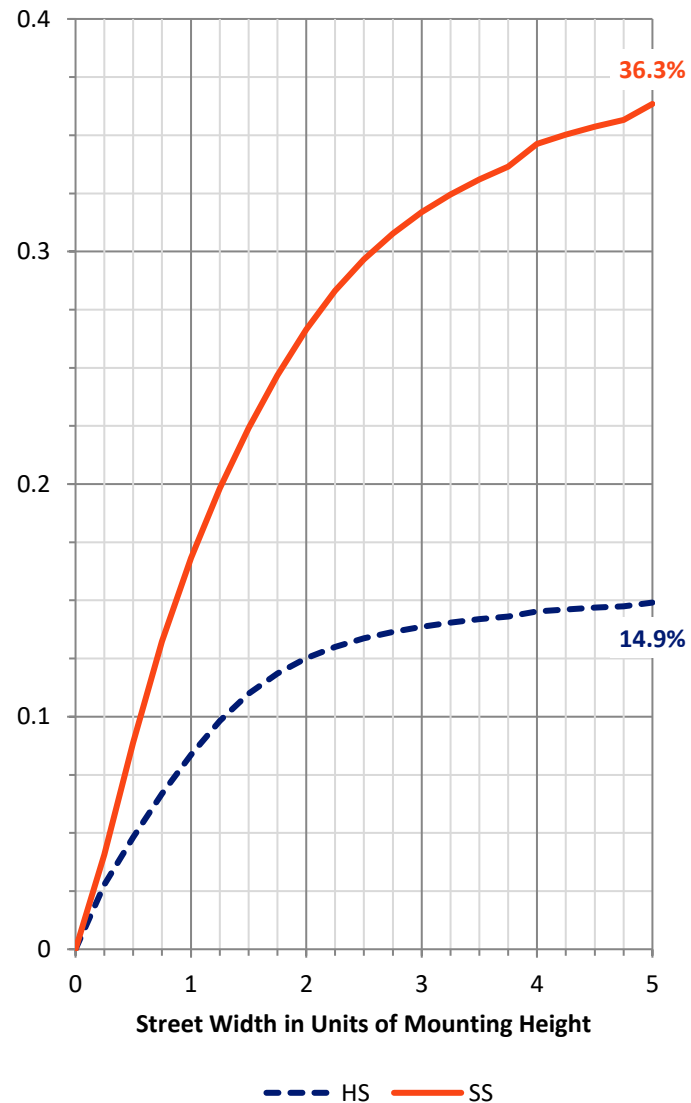
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4678.9	748.8	5427.7
	% Lamp	15.6	2.5	18.1
Street Side	Lumens	11422.1	846.4	12268.5
	% Lamp	38.1	2.8	40.9
Total	Lumens	16101.0	1595.2	17696.2
	% Lamp	53.7	5.3	59.0

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	45.7	0.3	0.2
10°-20°	157.1	0.9	0.5
20°-30°	408.0	2.3	1.4
30°-40°	931.6	5.3	3.1
40°-50°	1670.5	9.4	5.6
50°-60°	2777.2	15.7	9.3
60°-70°	4001.9	22.6	13.3
70°-80°	4132.5	23.4	13.8
80°-90°	1879.9	10.6	6.3
90°-100°	678.3	3.8	2.3
100°-110°	429.8	2.4	1.4
110°-120°	254.4	1.4	0.8
120°-130°	155.8	0.9	0.5
130°-140°	80.4	0.5	0.3
140°-150°	19.1	0.1	0.1
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°	16101.0	91.0	53.7
0°-180°	17696.2	100.0	59.0

Coefficient of Utilization



REPORT NUMBER: E366-37

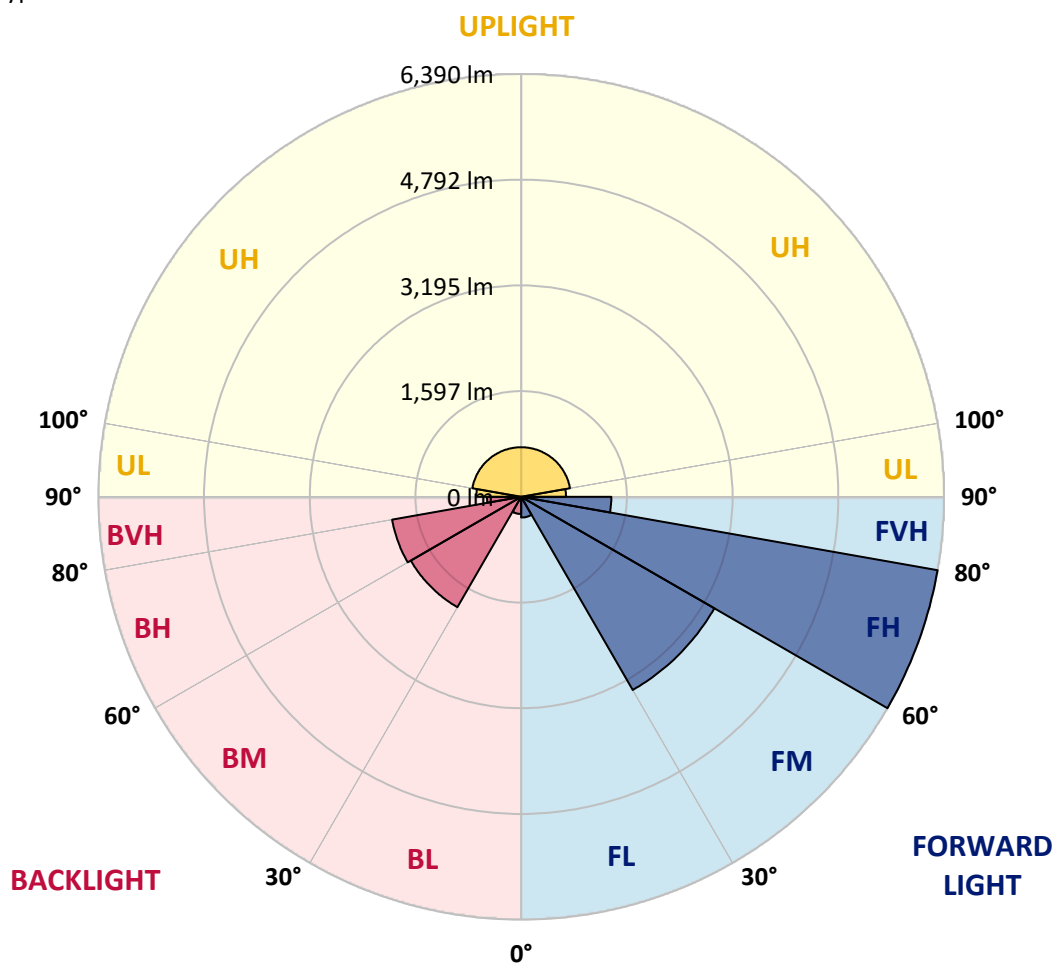
CATALOG NUMBER: UTR25SXX33

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	313.3	1.0			
FM	(30°-60°)	3371.0	11.2			
FH	(60°-80°)	6389.7	21.3			G3/7500
FVH	(80°-90°)	1362.4	4.5			G5
BL	(0°-30°)	259.9	0.9	B1/500		
BM	(30°-60°)	1925.9	6.4	B2/2500		
BH	(60°-80°)	1979.5	6.6	B3/2500		G3/2500
BVH	(80°-90°)	517.4	1.7			G4/750
UL	(90°-100°)	678.3	2.3		U4/1000	
UH	(100°-180°)	748.8	2.5		U4/1000	
Trapped Light		12303.8	41.0			

BUG Rating: B3-U4-G5

Type IV Short





REPORT NUMBER: E366-37
CATALOG NUMBER: UTR25SXX33

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
5°	470.6	470.6	470.6	470.6	470.6	470.6	476.5	482.4	482.4	476.5	470.6
15°	588.2	588.2	588.2	558.8	529.4	529.4	523.5	517.7	517.7	505.9	494.1
25°	823.6	823.6	823.6	764.7	705.9	764.7	823.6	823.6	823.6	823.6	823.6
35°	1753.0	1753.0	1647.1	1476.5	1382.4	1747.1	2370.6	2417.7	2094.2	1800.0	1647.1
45°	2376.5	2376.5	2247.1	2053.0	1835.3	1782.4	2647.1	3588.3	3588.3	2823.6	2235.4
55°	3553.0	3600.1	3482.4	3123.6	2641.2	2411.8	3147.1	5059.0	6088.4	4706.0	3529.5
65°	6588.4	6588.4	6411.9	5770.7	4817.8	4423.6	5214.2	7984.9	10735.6	9235.5	7059.0
70°	6588.4	6588.4	6411.9	5823.7	4911.9	4441.3	5029.5	7647.3	10735.6	9412.0	7059.0
73°	6559.0	6514.3	6294.3	5706.0	4794.2	4220.1	4690.7	7323.7	10529.7	9235.5	6823.7
75°	6400.2	6376.6	6117.8	5476.6	4588.4	3994.2	4406.0	6994.3	10176.7	8935.5	6576.6
77°	6264.9	6176.6	5808.4	5141.3	4273.0	3661.3	4000.1	6588.4	9647.3	8353.2	6117.8
78°	6059.0	5941.3	5573.1	4911.9	4043.6	3441.3	3764.8	6353.1	9294.4	7970.8	5823.7
79°	5794.3	5647.2	5235.4	4588.4	3764.8	3190.7	3411.8	5941.3	8676.7	7353.1	5470.7
80°	5441.3	5294.3	4837.8	4161.3	3396.6	2867.1	3088.3	5514.3	8059.0	6764.9	5000.1
81°	5029.5	4853.1	4337.8	3676.6	3014.2	2514.2	2706.0	5059.0	7412.0	6117.8	4470.7
82°	4558.9	4337.8	3823.6	3206.0	2594.2	2182.4	2294.2	4382.5	7117.8	6014.3	4029.5
83°	3970.7	3778.9	3294.2	2690.7	2161.2	1853.0	1941.2	3676.6	5470.7	4588.4	3470.7
84°	3176.6	3014.2	2602.4	2147.1	1794.2	1588.3	1602.4	3014.2	4529.5	3794.2	2882.4
84.5°	2706.0	2588.3	2294.2	1941.2	1647.1	1470.6	1470.6	2676.5	3970.7	3323.6	2529.5
85°	2235.4	2117.7	1941.2	1764.8	1529.4	1353.0	1353.0	2235.4	3235.4	2764.8	2117.7
90°	823.6	823.6	882.4	941.2	925.9	882.4	867.1	970.6	1117.7	1000.0	823.6
95°	576.5	576.5	594.1	658.8	705.9	705.9	705.9	735.3	805.9	717.7	588.2
105°	294.1	294.1	323.5	358.8	364.7	364.7	411.8	458.8	458.8	494.1	529.4
115°	200.0	200.0	200.0	217.7	235.3	235.3	235.3	235.3	235.3	229.4	223.5
125°	129.4	129.4	129.4	152.9	176.5	176.5	176.5	176.5	176.5	147.1	117.6
135°	129.4	129.4	129.4	117.6	105.9	105.9	111.8	152.9	188.2	152.9	117.6
145°	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: E366-37
CATALOG NUMBER: UTR25SXX33

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6
5°	470.6	470.6	470.6	470.6	470.6	470.6	470.6	470.6	458.8	447.1
15°	494.1	494.1	482.4	470.6	470.6	470.6	470.6	470.6	458.8	447.1
25°	770.6	711.8	647.1	588.2	588.2	647.1	705.9	653.0	623.5	647.1
35°	1417.7	1117.7	994.1	1000.0	1129.4	1282.4	1394.2	1488.3	1535.3	1517.7
45°	1853.0	1353.0	1205.9	1235.3	1417.7	1682.4	1911.8	2005.9	1976.5	1941.2
55°	2676.5	1570.6	1305.9	1411.8	1764.8	2176.5	2353.0	2423.6	2376.5	2258.9
65°	4941.3	2235.4	1641.2	1653.0	1835.3	2041.2	2041.2	1829.5	1594.2	1529.4
70°	4882.5	2176.5	1617.7	1558.9	1611.8	1670.6	1573.0	1367.1	1161.2	1088.3
73°	4735.4	2117.7	1573.0	1484.7	1441.2	1425.9	1284.7	1078.9	984.7	1000.0
75°	4564.8	2055.3	1543.6	1411.8	1294.2	1235.3	1117.7	941.2	764.7	705.9
77°	4278.9	1955.3	1470.6	1353.0	1205.9	1117.7	970.6	788.3	641.2	588.2
78°	4088.3	1896.5	1441.2	1323.6	1176.5	1073.0	911.8	749.4	617.7	558.8
79°	3867.2	1808.3	1367.1	1278.9	1131.8	1014.1	867.1	720.0	588.2	529.4
80°	3558.9	1705.9	1308.3	1235.3	1102.4	984.7	837.7	690.6	558.8	500.0
81°	3220.1	1600.0	1231.8	1170.6	1053.0	941.2	808.3	667.1	549.4	500.0
82°	2911.8	1441.2	1131.8	1117.7	1000.0	882.4	764.7	647.1	529.4	470.6
83°	2529.5	1308.3	1058.9	1058.9	984.7	882.4	764.7	647.1	529.4	470.6
84°	2131.8	1147.1	941.2	970.6	931.8	843.6	735.3	617.7	514.1	470.6
84.5°	1911.8	1088.3	896.5	911.8	896.5	837.7	735.3	617.7	514.1	470.6
85°	1647.1	1000.0	853.0	882.4	882.4	823.6	711.8	594.1	500.0	470.6
90°	720.0	602.4	608.3	667.1	705.9	690.6	629.4	525.9	441.2	411.8
95°	529.4	470.6	529.4	588.2	588.2	588.2	529.4	470.6	411.8	353.0
105°	529.4	529.4	441.2	353.0	353.0	358.8	358.8	353.0	323.5	294.1
115°	223.5	223.5	229.4	235.3	235.3	235.3	235.3	235.3	235.3	235.3
125°	117.6	117.6	164.7	211.8	211.8	211.8	211.8	211.8	211.8	211.8
135°	111.8	105.9	105.9	105.9	105.9	111.8	117.6	117.6	117.6	117.6
145°	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)