

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: P239726

Luminaire Tested: **UTLD-AF24-60-D-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-40-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T4W-HSS
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4792 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

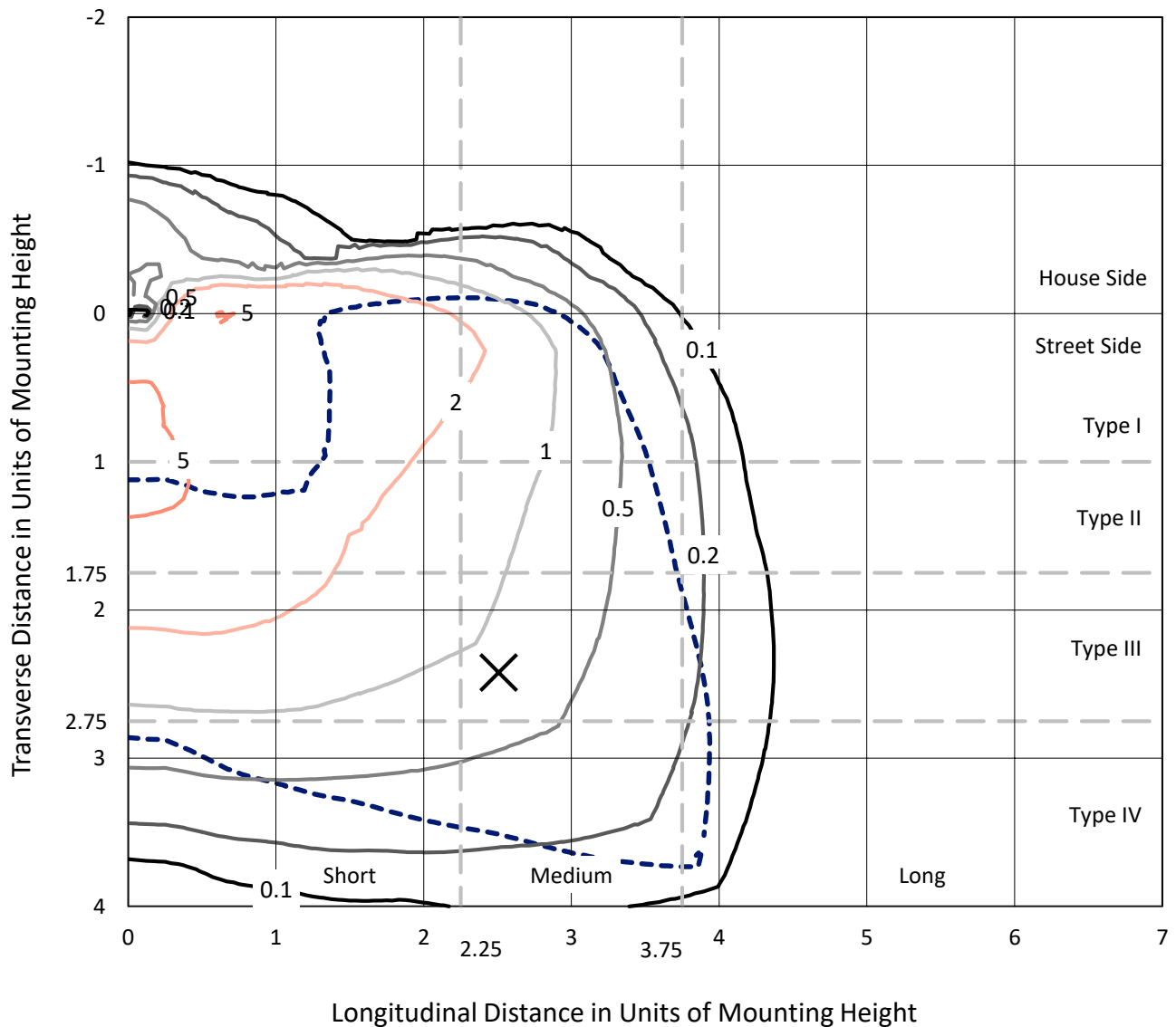
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P239726
 CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

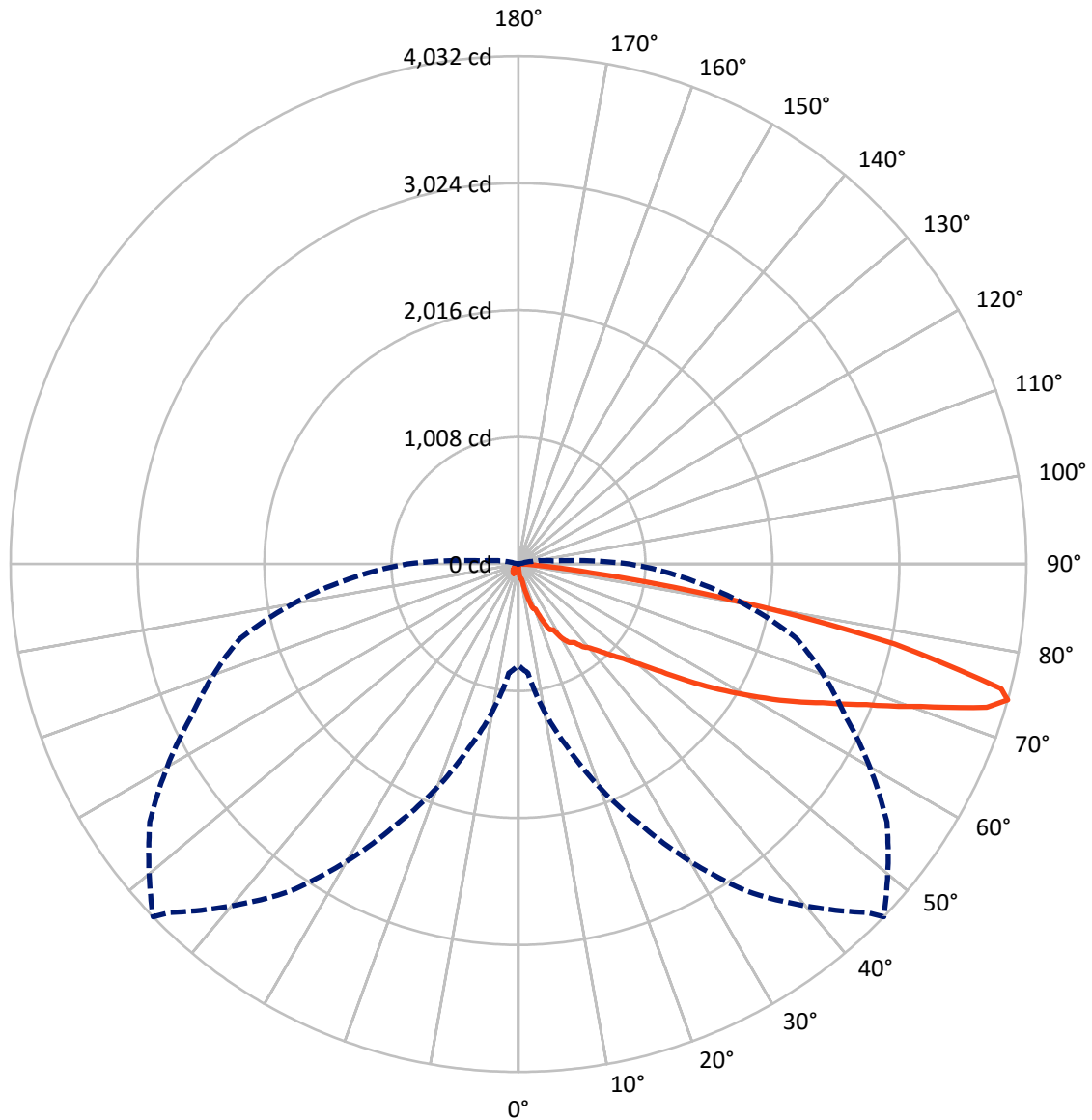
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - Non-Cutoff

REPORT NUMBER: P239726
CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



REPORT NUMBER: P239726

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-HSS

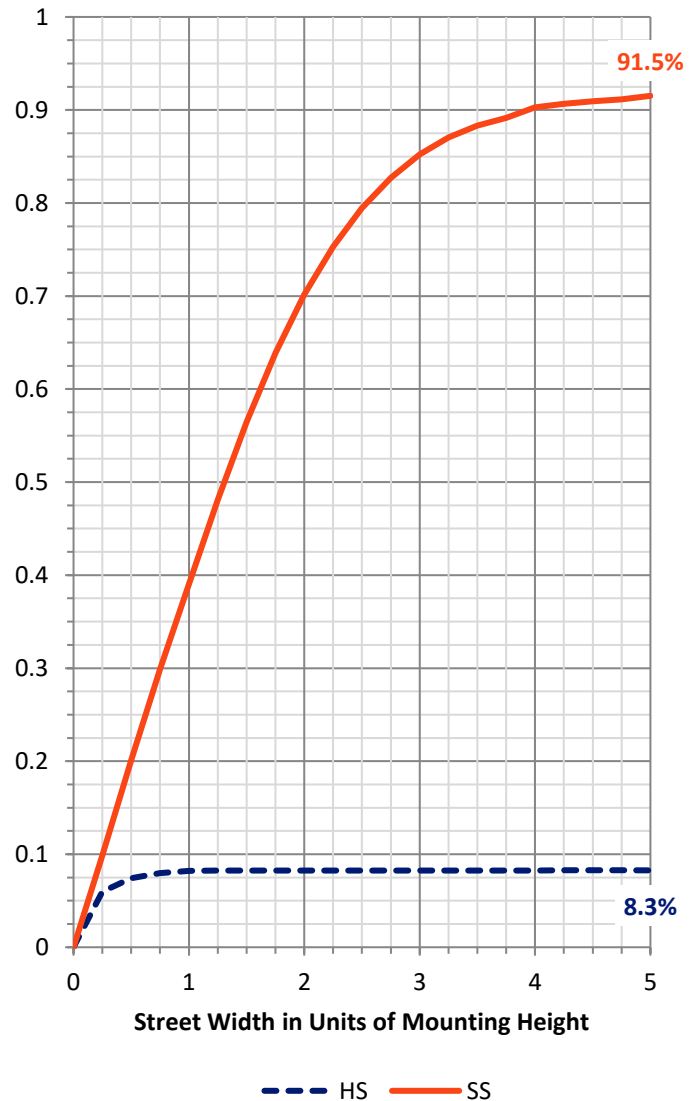
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.0	0.0	399.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	4393.0	0.0	4393.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	4792.0	0.0	4792.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	53.4	1.1
20°-30°	173.2	3.6
30°-40°	334.7	7.0
40°-50°	561.8	11.7
50°-60°	1015.5	21.2
60°-70°	1509.9	31.5
70°-80°	1058.0	22.1
80°-90°	81.0	1.7
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°	4792.0	100.0
0°-180°	4792.0	100.0



REPORT NUMBER: P239726

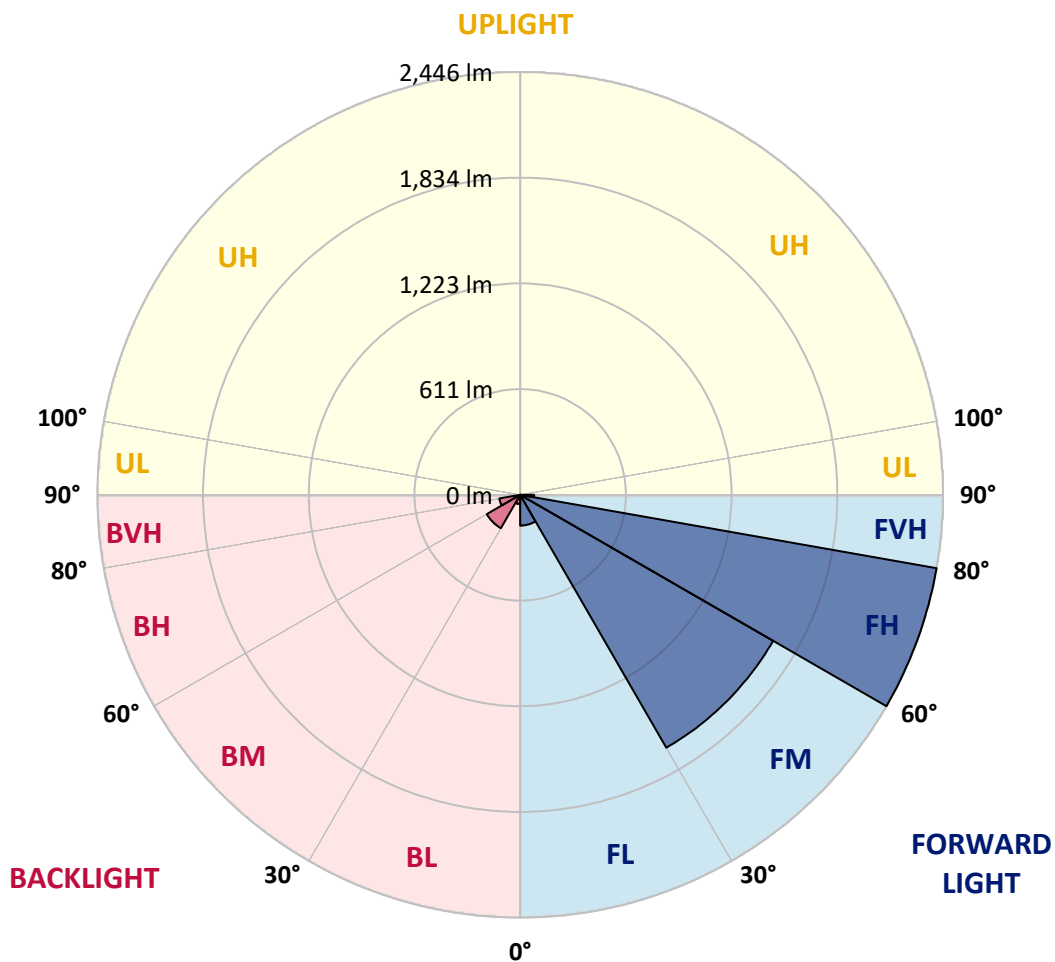
CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.8	3.7			
FM	(30°-60°)	1689.3	35.3			
FH	(60°-80°)	2445.7	51.0			G2/5000
FVH	(80°-90°)	80.3	1.7			G1/100
BL	(0°-30°)	53.2	1.1	B0/110		
BM	(30°-60°)	222.8	4.7	B1/1000		
BH	(60°-80°)	122.2	2.6	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P239726

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	26.4	26.4	24.9	21.9	11.3	0.8	0.8	0.0	0.0	0.0	0.8
5°	117.7	117.7	117.0	114.7	111.7	104.9	94.3	25.7	9.1	0.8	0.8
7.5°	128.3	126.8	125.3	122.3	119.2	114.0	113.2	109.4	24.2	2.3	0.8
10°	264.1	263.4	234.7	159.2	132.8	118.5	117.7	114.0	85.3	15.8	6.0
12.5°	280.0	279.2	274.0	266.4	254.3	142.6	139.6	127.5	165.3	157.0	135.1
15°	327.5	327.5	310.9	277.7	264.9	252.8	280.0	267.9	243.8	215.1	152.5
17.5°	458.1	458.1	449.8	416.6	294.3	364.5	368.3	335.1	260.4	293.6	264.1
20°	486.8	480.7	460.4	441.5	489.8	385.7	382.6	357.7	398.5	380.4	329.1
22.5°	632.4	630.9	625.7	469.4	504.9	469.4	482.3	463.4	447.5	402.3	430.2
25°	640.0	635.5	632.4	601.5	525.3	564.5	577.4	482.3	531.3	562.3	537.4
27.5°	807.5	804.5	773.6	615.1	603.0	584.1	590.9	612.8	609.0	590.9	592.4
30°	824.9	821.9	813.6	735.8	640.0	647.5	686.8	658.1	690.6	757.0	775.8
32.5°	1016.6	1004.5	957.0	756.2	707.2	718.5	742.6	727.5	769.8	790.2	833.2
35°	1110.9	1064.9	988.7	850.6	725.3	742.6	765.3	800.7	815.8	830.9	880.7
37.5°	1223.4	1137.3	1040.0	886.0	802.3	792.4	832.4	842.3	854.3	895.8	962.3
40°	1278.5	1227.2	1163.8	971.3	834.0	836.2	877.0	888.3	911.7	960.0	1055.8
42.5°	1421.1	1416.6	1381.1	1064.9	883.0	901.1	945.6	955.5	972.1	1046.8	1166.8
45°	1649.0	1644.5	1634.7	1224.9	963.8	980.4	1030.2	1054.3	1089.0	1197.7	1322.2
47.5°	1927.5	1910.2	1855.1	1470.2	1092.1	1070.9	1122.2	1175.1	1239.2	1364.5	1521.5
50°	2153.9	2157.0	2084.5	1675.4	1292.8	1190.9	1248.3	1313.9	1407.5	1570.5	1761.5
52.5°	2377.3	2359.2	2274.7	1941.9	1540.4	1364.5	1418.1	1474.7	1613.6	1807.5	2035.4
55°	2507.9	2495.8	2452.8	2187.1	1800.7	1579.6	1638.5	1679.2	1865.6	2030.9	2322.2
57.5°	2646.8	2649.0	2671.7	2461.1	2129.8	1828.7	1876.2	1896.6	2103.4	2289.8	2638.5
60°	2778.1	2788.6	2855.1	2738.1	2417.3	2061.9	2123.7	2117.0	2323.0	2545.6	2974.3
62.5°	2791.7	2830.1	3017.3	2990.1	2713.2	2322.2	2393.9	2345.6	2519.2	2786.4	3328.3
65°	2553.2	2587.1	3017.3	3078.4	2972.0	2590.9	2655.1	2582.6	2710.2	2998.4	3606.0
67.5°	2353.9	2394.7	2802.2	3121.5	3175.1	2904.1	2980.3	2839.2	2909.4	3197.7	3690.5
70°	2198.5	2252.0	2612.8	3154.7	3273.2	3266.4	3387.1	3162.2	3116.2	3294.3	3365.2
72.5°	1501.9	1541.9	2138.1	2770.5	3333.5	3773.5	3888.2	3522.2	3117.7	2924.5	2217.3
74°	804.5	869.4	1506.4	2273.2	3175.1	3912.4	4032.4	3572.0	2867.1	2288.3	1345.6
75°	480.0	529.8	1014.3	1815.1	2870.1	3831.6	3959.2	3421.8	2558.5	1808.3	895.1
77.5°	194.0	196.2	267.2	705.7	1672.4	2944.1	3055.1	2358.5	1449.0	634.0	177.4
80°	67.9	72.5	107.2	212.8	611.3	1605.3	1703.4	1125.3	542.6	144.1	42.3
82.5°	32.5	34.7	58.1	113.2	263.4	532.8	584.1	394.0	224.1	123.8	22.6
85°	15.1	15.8	29.4	67.9	119.2	150.2	160.8	145.7	166.8	120.0	12.1
87.5°	7.5	7.5	17.4	32.5	56.6	42.3	43.0	58.1	104.9	95.8	6.8
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: P239726

CATALOG NUMBER: UTLD-AF24-60-D-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	53.6	57.4	58.9	58.1
10°	6.0	4.5	1.5	0.0	0.0	56.6	72.5	67.2	63.4	60.4	61.9
12.5°	141.9	144.9	124.5	56.6	52.8	64.2	55.1	45.3	40.8	38.5	37.7
15°	159.2	156.2	144.1	101.1	122.3	60.4	35.5	38.5	58.1	61.9	61.9
17.5°	286.8	279.2	205.3	132.1	99.6	59.6	51.3	52.1	55.1	59.6	59.6
20°	338.1	325.3	259.6	195.5	83.0	64.9	60.4	51.3	63.4	86.8	87.5
22.5°	430.2	406.8	264.1	169.1	87.5	68.7	65.7	72.5	79.2	86.0	86.8
25°	547.9	524.5	383.4	166.0	81.5	77.7	78.5	75.5	75.5	102.6	107.2
27.5°	659.6	576.6	356.2	140.4	87.5	83.0	80.0	93.6	95.1	104.1	104.9
30°	804.5	770.6	415.1	114.7	84.5	80.8	91.3	92.8	91.3	116.2	119.2
32.5°	855.8	810.6	372.1	104.9	82.3	78.5	83.8	94.3	100.4	110.2	112.5
35°	913.9	856.6	321.5	95.8	84.5	72.5	77.7	85.3	94.3	116.2	118.5
37.5°	982.6	903.4	264.9	89.8	78.5	68.7	70.9	79.2	89.1	98.9	100.4
40°	1067.9	960.0	214.3	84.5	73.2	62.6	62.6	66.4	69.4	74.7	77.0
42.5°	1176.6	1020.4	160.0	80.0	68.7	55.8	53.6	52.8	49.8	50.6	50.6
45°	1333.6	1092.1	120.0	77.0	66.4	49.8	44.5	37.0	30.9	29.4	30.9
47.5°	1525.3	1189.4	96.6	73.2	63.4	42.3	32.5	21.9	17.4	18.1	18.9
50°	1740.4	1286.8	89.8	67.9	57.4	34.7	20.4	11.3	9.8	10.6	11.3
52.5°	1938.1	1358.5	85.3	63.4	50.6	24.9	10.6	5.3	5.3	6.0	6.8
55°	2139.6	1409.0	82.3	59.6	41.5	15.8	4.5	3.0	3.0	3.0	3.0
57.5°	2327.5	1439.2	76.2	52.8	28.7	7.5	2.3	1.5	1.5	0.8	0.8
60°	2496.6	1450.5	59.6	40.0	16.6	2.3	0.8	0.8	0.0	0.0	0.0
62.5°	2669.4	1446.8	39.2	26.4	9.1	0.8	0.0	0.0	0.0	0.0	0.0
65°	2759.2	1415.1	24.9	17.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2694.3	1303.4	17.4	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	2335.1	1058.1	13.6	8.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1518.5	579.6	11.3	6.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
74°	880.0	285.3	9.8	6.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	569.0	148.7	9.1	5.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	95.8	32.5	5.3	3.0	1.5	0.0	0.8	0.0	0.0	0.0	0.0
80°	30.9	10.6	3.0	2.3	1.5	0.0	0.8	0.0	0.0	0.0	0.0
82.5°	15.8	6.0	2.3	2.3	2.3	0.0	0.8	0.8	0.0	0.0	0.0
85°	7.5	3.8	2.3	1.5	2.3	0.0	1.5	0.0	0.0	0.0	0.0
87.5°	4.5	3.0	1.5	1.5	2.3	0.0	1.5	0.8	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	0.0

(END OF REPORT)