

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: P266506

Luminaire Tested: **UTLD-AF24-90-D-U-T2U-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-90-D-U-T2U-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
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: 7577 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

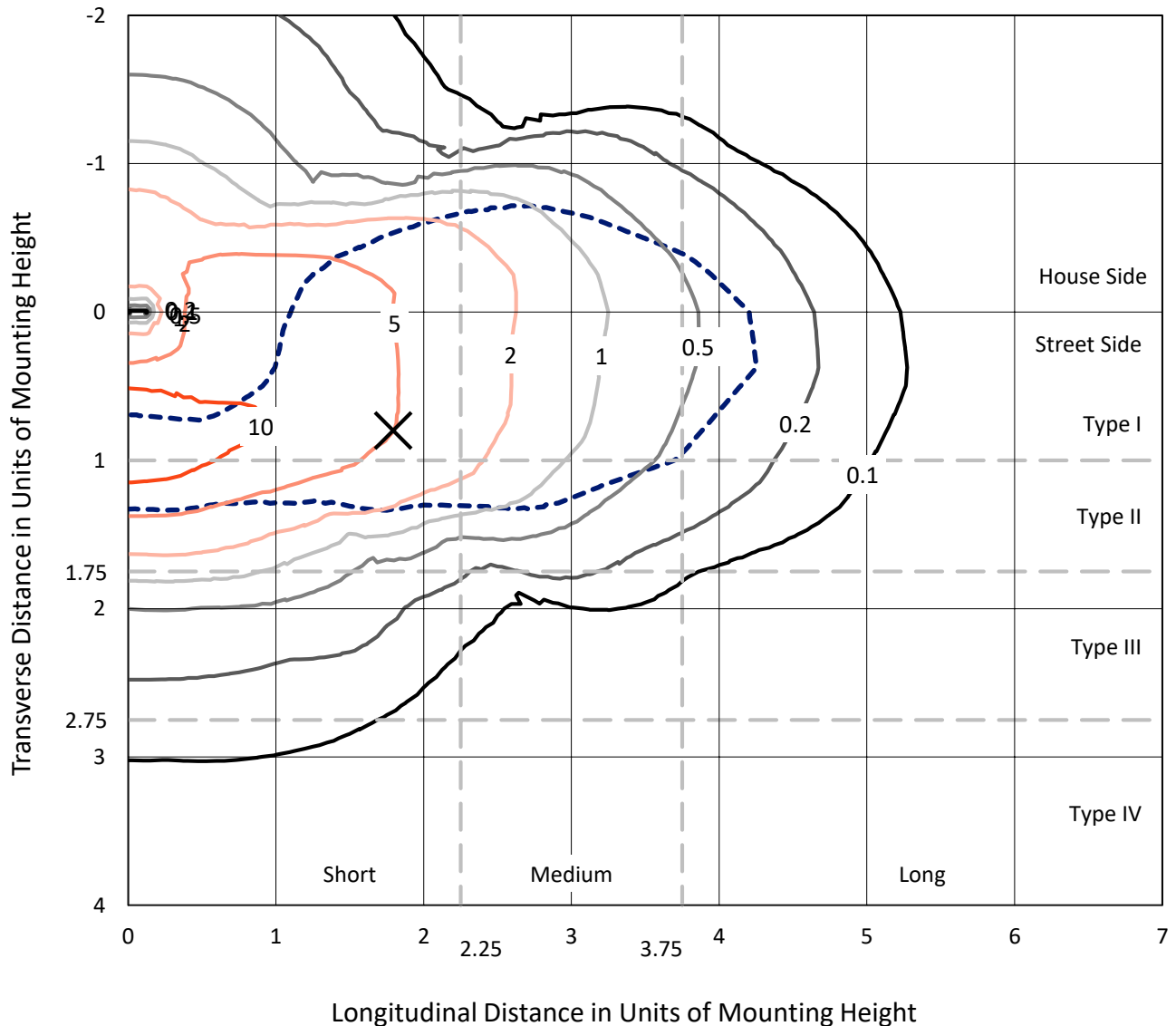
Input Watts (W): 94
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

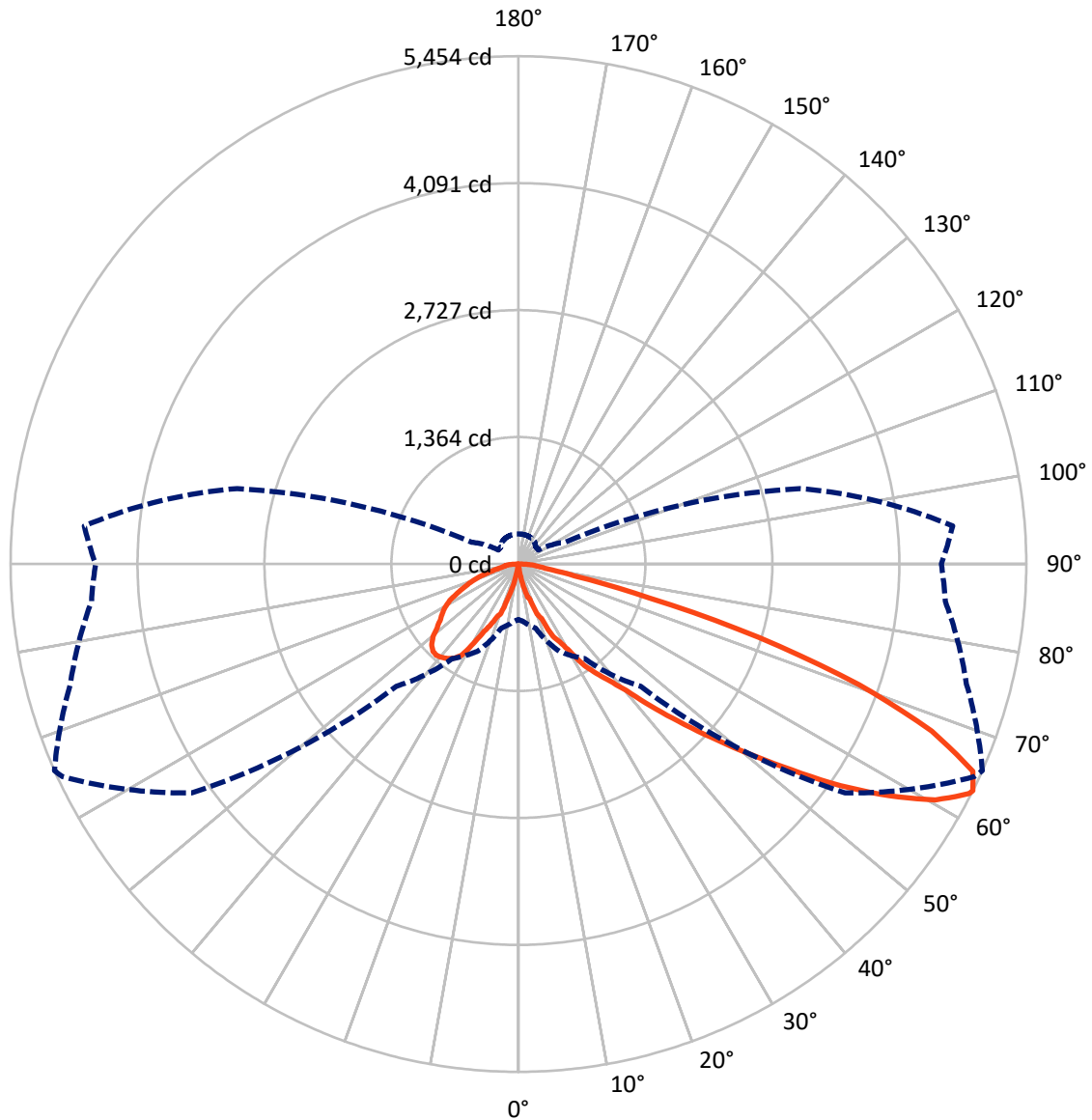
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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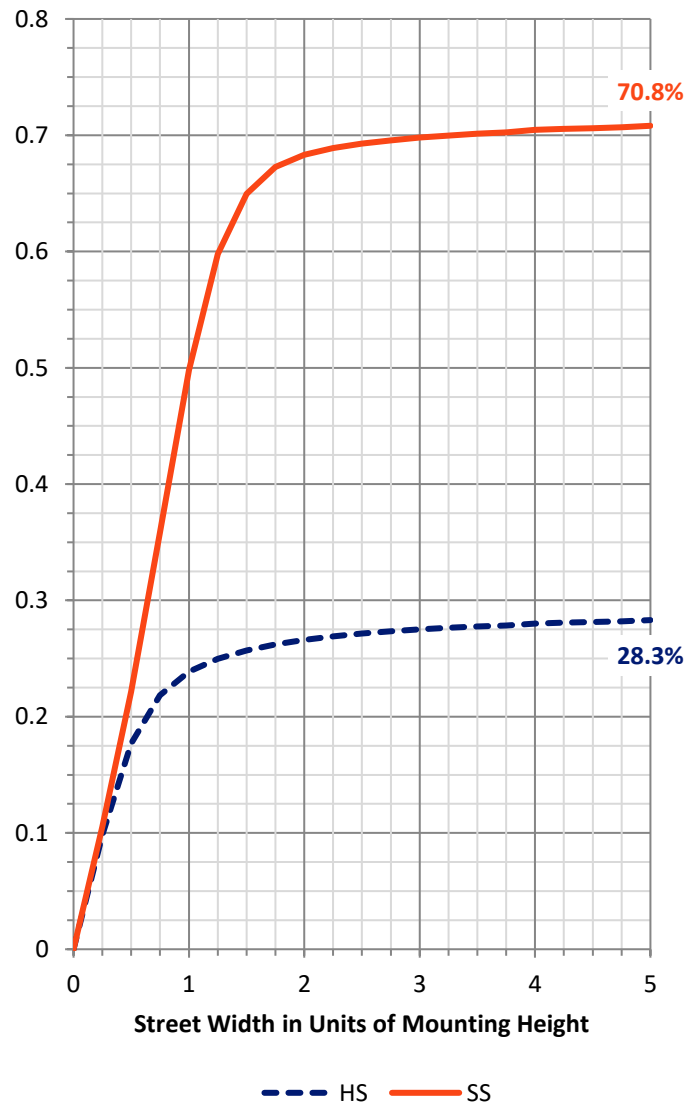
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2182.2	0.0	2182.2
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	5394.8	0.0	5394.8
	% Fixture	71.2	0.0	71.2
Total	Lumens	7577.0	0.0	7577.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.1
10°-20°	100.0	1.3
20°-30°	367.8	4.9
30°-40°	837.1	11.0
40°-50°	1507.4	19.9
50°-60°	1968.0	26.0
60°-70°	1748.4	23.1
70°-80°	888.1	11.7
80°-90°	152.6	2.0
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°	7577.0	100.0
0°-180°	7577.0	100.0



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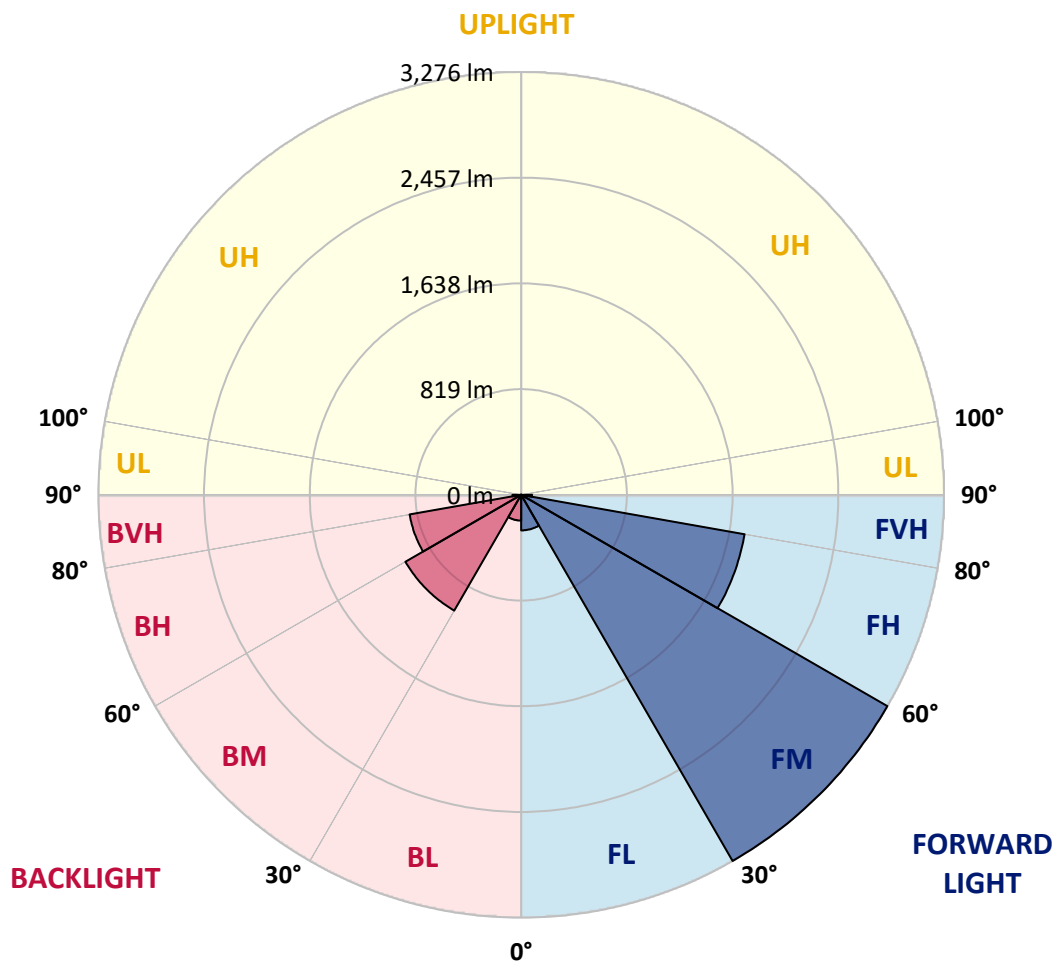
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.6	3.6			
FM	(30°-60°)	3276.3	43.2			
FH	(60°-80°)	1758.2	23.2			G1/1800
FVH	(80°-90°)	84.7	1.1			G1/100
BL	(0°-30°)	199.7	2.6	B1/500		
BM	(30°-60°)	1036.2	13.7	B2/2500		
BH	(60°-80°)	878.4	11.6	B2/1000		G2/1000
BVH	(80°-90°)	67.9	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	19.0	19.0	16.4	13.0	10.4	8.7	6.1	4.3	4.3	2.6	1.7
5°	175.3	175.3	174.5	173.6	171.8	164.8	30.4	9.5	8.7	4.3	2.6
7.5°	178.8	177.9	177.9	176.2	175.3	171.8	169.2	65.9	55.5	9.5	5.2
10°	320.2	318.4	315.8	213.4	180.5	176.2	175.3	138.0	137.1	29.6	21.6
12.5°	334.1	335.0	332.4	329.7	322.9	202.2	193.4	249.9	254.2	292.4	227.4
15°	380.9	375.8	356.6	344.5	338.4	317.6	361.8	360.9	362.6	342.8	260.2
17.5°	540.6	538.9	534.5	501.6	372.3	477.2	456.3	388.7	393.9	449.4	449.4
20°	609.9	609.1	593.5	575.3	638.6	514.5	490.3	571.0	575.3	581.4	537.9
22.5°	916.4	915.5	878.2	675.0	717.6	645.6	649.0	650.8	635.1	626.5	673.3
25°	1063.0	1056.0	1035.1	974.4	851.2	859.9	709.8	853.7	860.8	855.5	845.1
27.5°	1499.5	1500.3	1326.6	1149.7	1044.6	967.5	976.2	947.5	946.6	931.1	972.7
30°	1747.6	1735.3	1674.7	1502.9	1246.8	1143.6	1095.9	1114.1	1086.4	1184.4	1176.6
32.5°	2332.4	2332.4	2122.3	1744.1	1502.9	1417.9	1273.7	1278.9	1299.8	1286.0	1305.9
35°	2743.7	2704.6	2497.3	2190.1	1704.2	1594.0	1508.1	1432.5	1441.2	1416.9	1436.0
37.5°	3180.1	3141.1	2911.9	2518.0	2060.0	1863.9	1705.1	1611.3	1589.6	1591.3	1606.1
40°	3519.4	3497.7	3357.1	2922.5	2411.3	2151.9	1935.8	1808.3	1784.8	1827.4	1875.1
42.5°	3756.4	3747.5	3664.2	3280.8	2826.1	2588.3	2265.5	2080.7	2085.1	2107.7	2155.4
45°	3850.9	3830.9	3828.2	3507.3	3200.1	3080.4	2696.8	2391.4	2407.0	2468.6	2478.2
47.5°	3747.5	3706.0	3781.4	3600.9	3510.8	3518.5	3189.7	2792.2	2776.7	2835.7	2830.4
50°	3369.4	3355.3	3500.3	3528.9	3664.2	3843.8	3730.2	3239.1	3194.1	3199.3	3163.7
52.5°	2782.7	2816.5	3007.4	3206.9	3592.3	4020.1	4213.6	3711.2	3672.1	3561.9	3493.4
55°	2236.9	2277.7	2484.3	2639.6	3227.0	4007.9	4566.8	4183.1	4204.8	3922.0	3794.5
57.5°	1637.3	1690.3	1964.5	2095.4	2643.9	3715.5	4746.4	4643.1	4696.0	4277.8	4080.8
60°	1046.4	1066.4	1343.1	1603.6	1923.7	3027.4	4728.9	5082.2	5145.5	4661.2	4347.2
62.5°	653.3	675.0	765.4	1128.9	1360.6	2052.1	4394.0	5373.8	5431.8	4936.4	4569.3
63°	595.2	620.4	713.3	1031.8	1239.9	1856.8	4282.9	5403.1	5454.4	4982.3	4602.2
65°	443.5	453.9	502.4	695.8	910.3	1166.2	3507.3	5299.9	5364.0	5021.3	4615.3
67.5°	387.0	391.3	408.6	459.0	650.8	678.5	2043.5	4748.0	4788.0	4873.8	4451.3
70°	354.0	356.6	387.9	391.3	510.1	481.6	749.6	3730.2	3881.2	4574.4	4165.8
72.5°	307.2	310.6	347.0	380.9	395.7	382.7	405.2	2518.9	2701.2	3908.2	3852.7
75°	256.8	260.2	292.4	337.6	344.5	303.6	332.4	1319.8	1449.1	2865.1	3370.1
77.5°	210.8	213.4	242.2	273.4	316.7	233.4	269.9	497.2	616.1	1770.1	2426.1
80°	144.8	151.9	183.1	211.7	242.2	211.7	202.2	284.7	301.1	859.0	1239.9
82.5°	110.2	111.8	142.3	154.5	170.9	209.1	158.8	214.3	226.5	400.0	402.6
85°	76.4	74.6	100.7	107.5	118.8	132.0	132.8	156.1	161.3	230.9	169.2
87.5°	34.8	33.0	54.6	52.9	59.8	65.0	94.6	85.9	87.7	144.8	91.1
90°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
2.5°	1.7	1.7	1.7	2.6	2.6	2.6	1.7	0.9	0.9	0.9	0.9
5°	1.7	1.7	1.7	2.6	2.6	3.5	4.3	4.3	5.2	6.1	6.1
7.5°	4.3	3.5	3.5	3.5	5.2	7.8	20.8	90.2	157.9	166.5	169.2
10°	19.0	19.0	13.8	11.3	13.0	142.3	184.0	190.0	193.4	195.2	195.2
12.5°	237.0	264.6	247.4	132.8	143.2	177.1	197.0	201.3	206.5	250.7	259.4
15°	288.0	290.7	293.2	272.5	377.5	278.6	232.5	351.3	357.4	360.1	359.2
17.5°	437.4	445.1	411.3	366.1	400.9	414.7	338.4	370.6	376.6	381.8	381.8
20°	567.5	568.4	532.8	570.1	487.6	504.9	440.8	418.3	537.0	542.2	541.5
22.5°	699.4	709.8	587.4	608.2	641.2	535.4	557.0	496.4	522.4	522.4	521.5
25°	866.0	862.6	805.2	703.7	673.3	633.5	571.9	518.1	589.2	623.1	623.1
27.5°	1026.6	977.0	839.0	809.6	772.3	664.7	564.9	594.4	577.9	582.2	581.4
30°	1212.3	1197.4	1072.4	964.1	793.1	645.6	590.9	537.9	566.7	600.4	597.0
32.5°	1305.9	1267.7	1118.5	1164.5	831.2	622.2	514.5	505.8	514.5	526.6	528.5
35°	1429.2	1366.6	1220.0	1228.6	837.3	545.8	458.1	452.9	500.6	523.3	525.8
37.5°	1587.9	1513.3	1390.0	1257.3	786.1	481.6	406.0	434.7	451.2	461.5	458.1
40°	1791.8	1703.2	1611.3	1265.2	700.1	415.6	377.5	400.9	416.5	419.1	419.1
42.5°	2041.7	1919.4	1838.7	1260.9	588.3	380.9	358.3	376.6	396.5	394.9	393.1
45°	2336.8	2189.2	2024.3	1231.2	478.9	361.8	348.8	360.9	375.8	369.7	367.0
47.5°	2655.2	2496.4	2188.4	1171.4	407.8	348.0	343.6	343.6	360.1	358.3	357.4
50°	2977.9	2814.7	2360.1	1079.5	368.8	335.7	326.3	337.6	356.6	353.2	351.3
52.5°	3297.3	3150.6	2493.8	951.8	344.5	325.4	319.3	334.1	351.3	348.0	347.0
55°	3591.5	3496.8	2637.0	850.3	319.3	307.2	319.3	331.5	345.4	341.9	341.9
57.5°	3895.1	3867.4	2815.6	769.7	298.4	293.2	315.8	327.2	338.4	336.7	336.7
60°	4199.7	4276.0	2979.7	683.7	282.0	276.8	308.8	322.0	331.5	330.5	330.5
62.5°	4493.9	4635.3	3108.9	583.1	266.3	263.8	300.3	314.9	322.9	324.5	324.5
63°	4541.6	4681.2	3128.1	553.5	262.9	262.0	298.4	313.2	320.2	322.9	322.9
65°	4630.0	4793.1	3158.4	455.5	248.1	252.6	289.0	307.2	311.5	317.6	315.8
67.5°	4550.3	4686.5	3068.3	351.3	230.0	238.6	274.3	294.1	298.4	307.2	302.8
70°	4371.5	4362.8	2762.7	286.3	216.0	223.9	257.8	279.5	281.1	289.9	281.1
72.5°	4034.7	3729.4	2177.0	242.9	202.2	209.1	240.3	261.1	262.0	265.4	256.8
75°	3372.7	2900.7	1308.6	209.9	184.8	190.0	221.3	238.6	241.3	236.1	231.7
77.5°	2302.8	1823.9	596.1	184.0	169.2	170.0	197.8	213.4	214.3	203.0	203.0
80°	1108.1	854.6	248.1	164.8	153.6	150.0	173.6	185.7	184.8	171.8	166.5
82.5°	350.6	312.4	184.8	144.1	137.1	129.3	150.9	156.1	157.1	157.9	126.8
85°	139.6	144.8	143.2	118.8	115.4	98.1	120.6	127.6	125.0	105.0	89.4
87.5°	72.9	89.4	87.7	79.8	82.5	62.5	83.4	79.8	81.6	54.6	42.5
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)