

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: P157091

Luminaire Tested: **UTLD-E01-LED-E-U-SL4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157091
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33670)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E01-LED-E-U-SL4-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2581.8 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

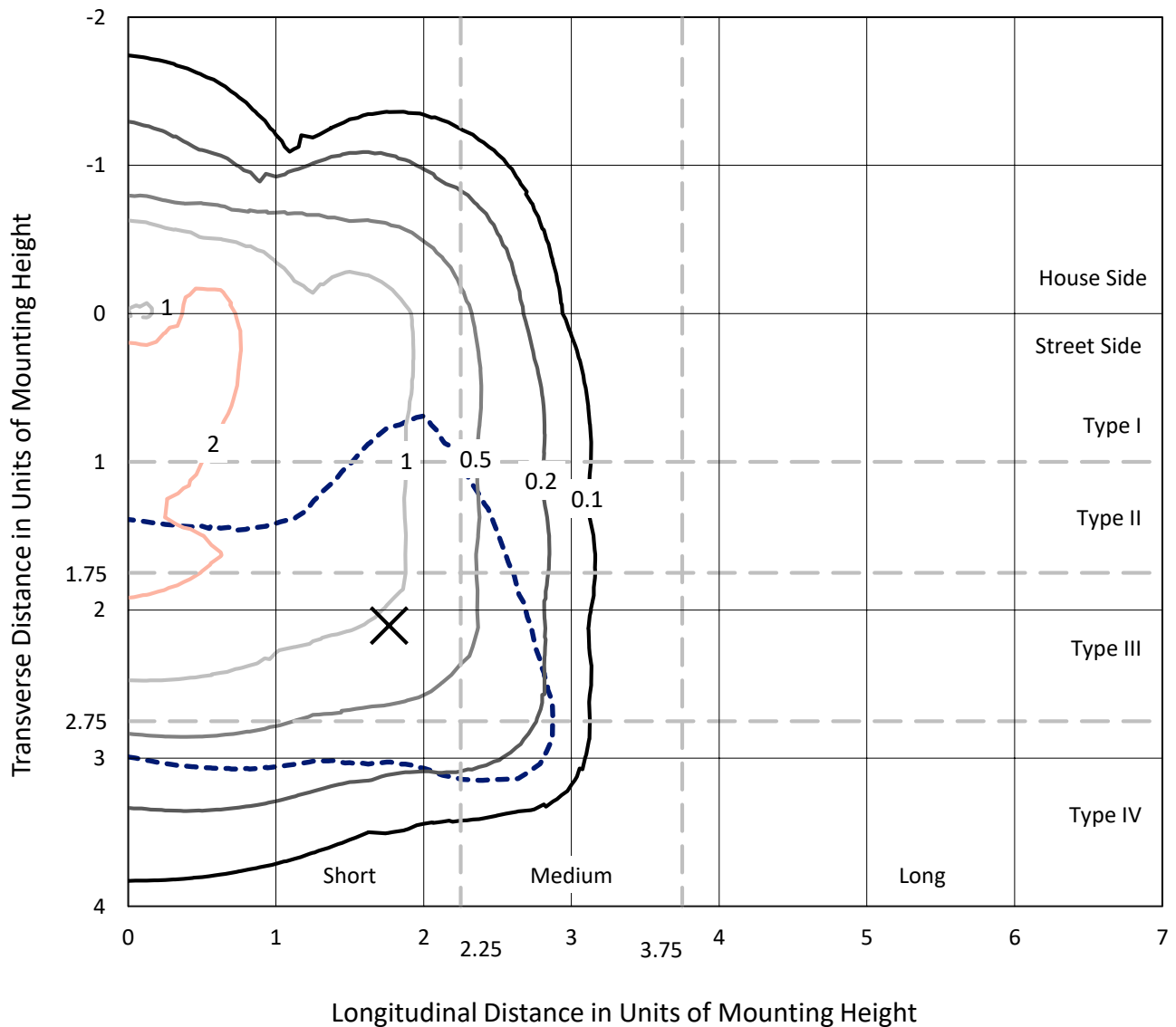
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

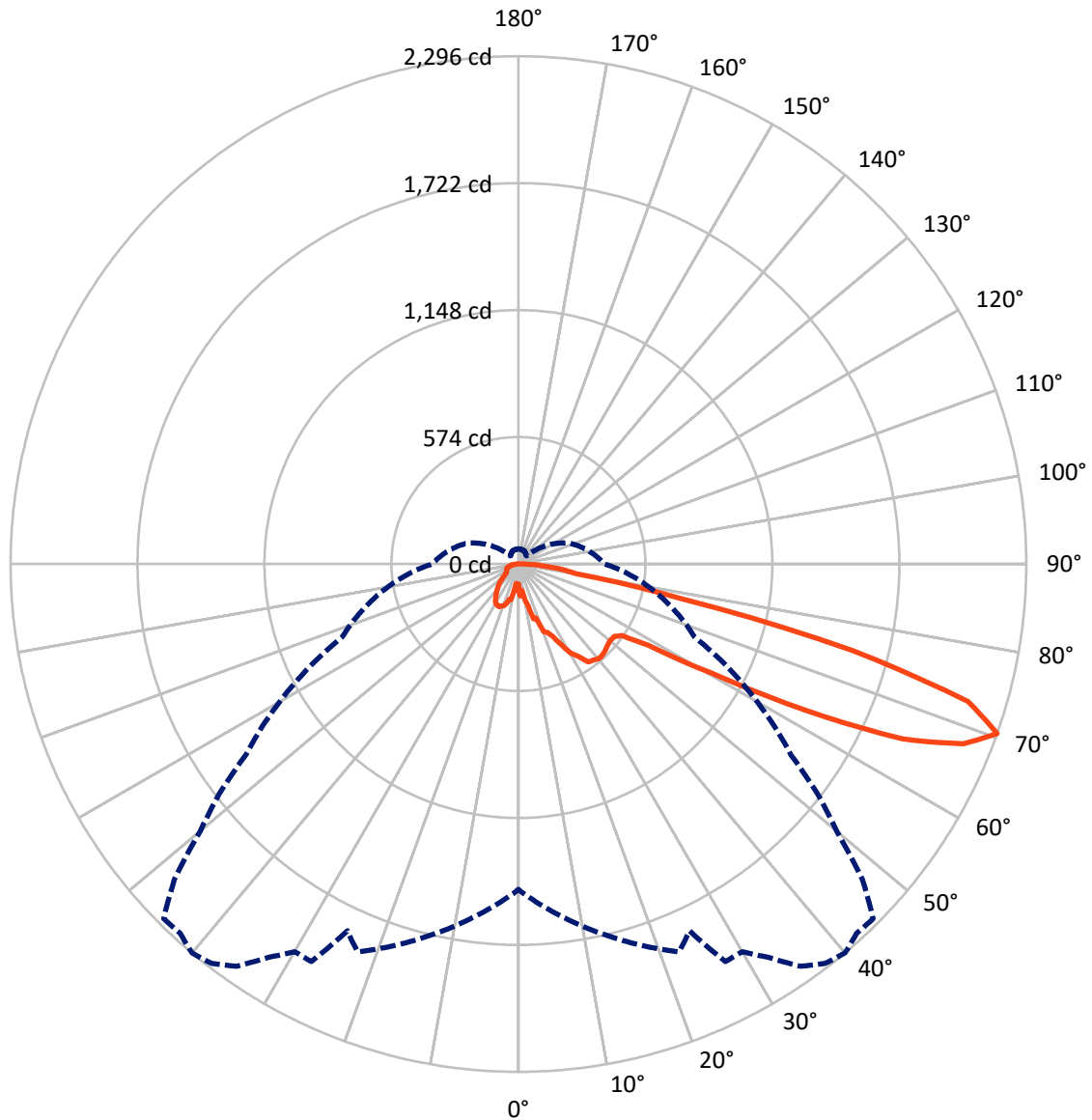
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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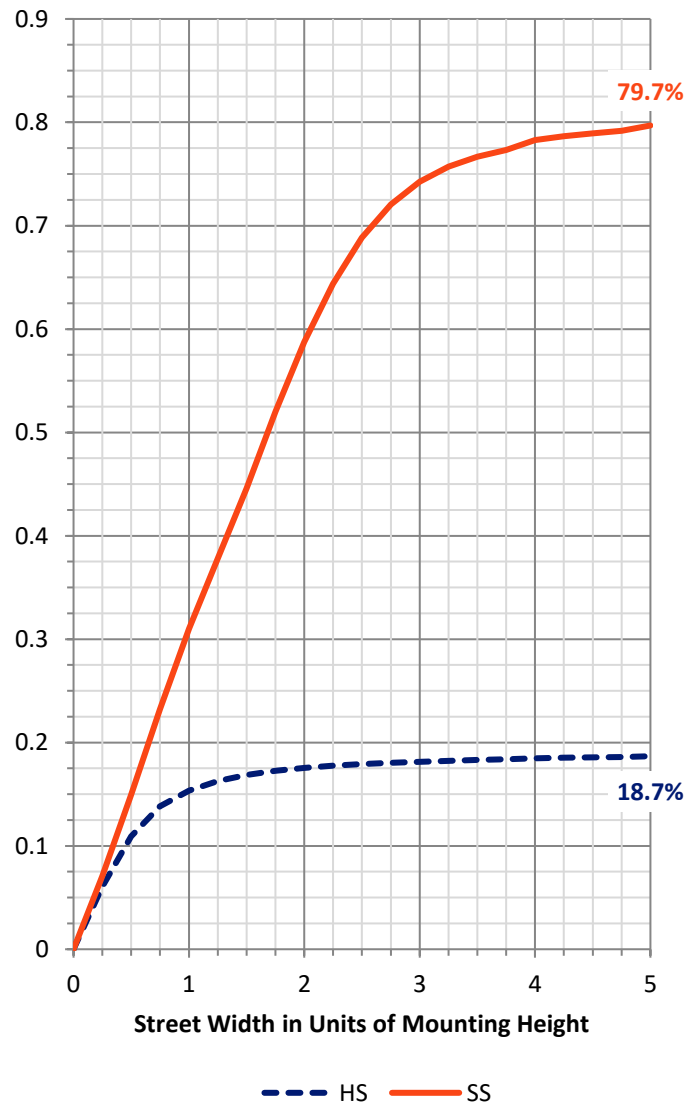
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.2	0.0	489.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	2092.6	0.0	2092.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	2581.8	0.0	2581.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	0.4
10°-20°	57.5	2.2
20°-30°	141.3	5.5
30°-40°	236.5	9.2
40°-50°	299.2	11.6
50°-60°	464.4	18.0
60°-70°	872.7	33.8
70°-80°	430.4	16.7
80°-90°	68.2	2.6
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°	2581.8	100.0
0°-180°	2581.8	100.0



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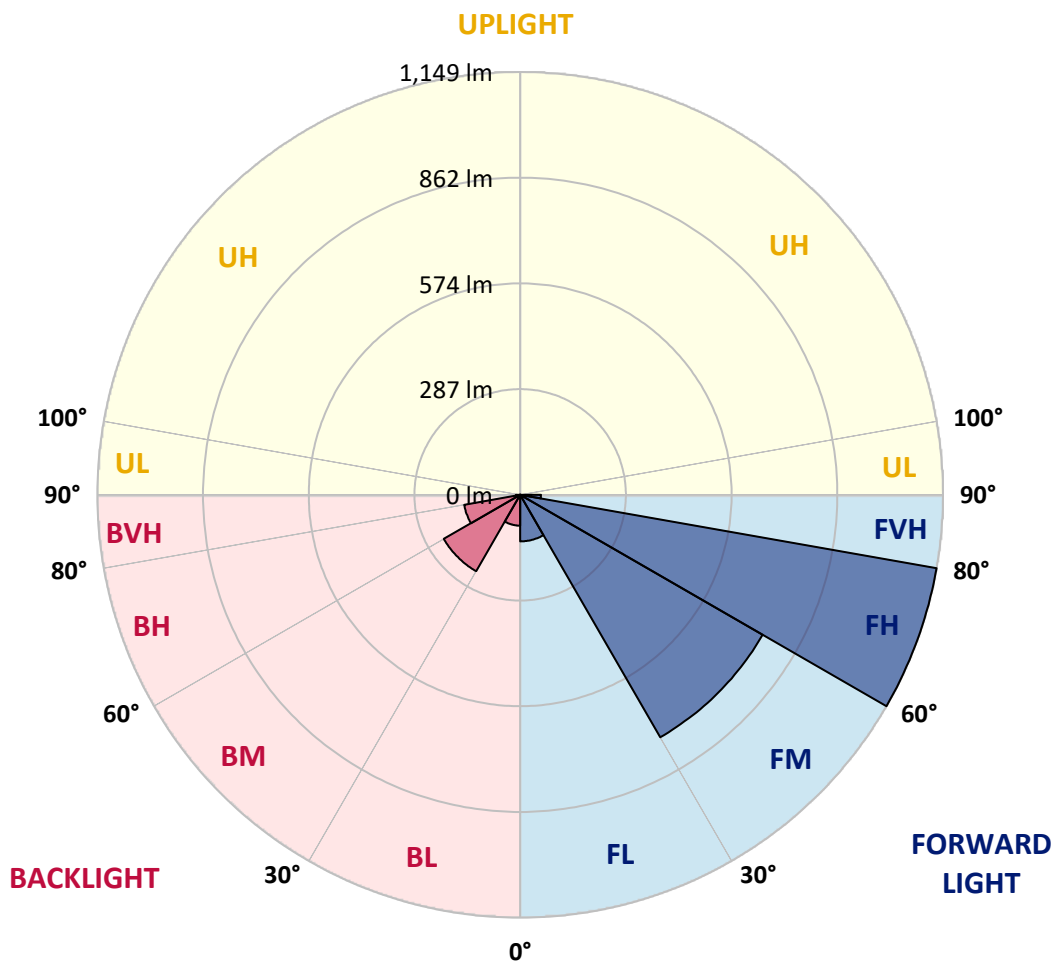
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	126.5	4.9			
FM	(30°-60°)	760.6	29.5			
FH	(60°-80°)	1148.8	44.5			G1/1800
FVH	(80°-90°)	56.7	2.2			G1/100
BL	(0°-30°)	83.9	3.2	B0/110		
BM	(30°-60°)	239.4	9.3	B1/1000		
BH	(60°-80°)	154.4	6.0	B1/500		G1/500
BVH	(80°-90°)	11.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	0.3°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°
0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2.5°	144.2	141.1	144.2	143.7	146.2	145.7	145.7	144.2	143.7	145.2	144.7
5°	121.1	121.6	119.0	116.5	118.0	118.0	118.0	117.0	116.5	118.5	120.1
7.5°	179.6	180.1	178.5	176.0	179.6	176.0	174.4	165.2	148.8	121.6	120.1
10°	181.6	181.1	177.5	175.5	176.0	176.0	175.0	173.4	166.7	167.3	170.3
12.5°	235.5	235.5	227.3	220.6	223.7	217.5	183.2	176.5	173.4	195.0	215.0
15°	251.4	238.6	230.9	220.6	224.2	226.8	261.7	264.2	269.9	257.6	255.5
17.5°	294.5	295.0	283.7	281.2	311.4	298.1	267.8	264.2	268.8	257.0	255.0
20°	347.8	346.8	311.9	359.1	320.7	318.6	310.9	307.8	320.1	326.3	292.4
22.5°	361.7	362.2	380.7	400.7	369.4	356.6	342.7	342.7	340.2	336.0	318.6
25°	444.3	445.3	394.5	420.2	385.8	401.2	394.5	380.7	369.9	363.2	355.5
27.5°	486.4	479.7	461.7	493.6	473.5	457.1	426.9	400.2	412.0	412.5	400.7
30°	555.6	555.1	541.3	540.2	501.3	481.2	487.4	470.5	459.7	468.4	433.5
32.5°	662.9	665.9	575.6	568.5	555.1	552.6	530.5	519.2	495.6	497.1	467.4
35°	783.9	785.0	654.7	609.0	616.7	590.5	554.6	545.4	525.9	544.3	502.3
37.5°	832.2	831.1	721.9	653.6	641.8	605.9	589.0	580.8	556.7	551.0	515.1
40°	911.2	911.7	765.0	673.6	679.8	634.1	619.8	593.1	559.7	562.3	520.7
42.5°	937.3	937.3	777.8	678.3	692.1	652.1	622.8	594.1	564.9	559.7	526.4
45°	948.1	948.6	771.6	681.8	676.7	648.5	615.2	589.5	559.2	552.6	521.8
47.5°	946.6	946.1	760.9	680.8	670.6	636.7	615.2	586.9	553.1	544.3	516.1
50°	935.3	936.3	757.8	675.2	678.3	632.1	615.7	583.9	553.1	540.2	515.6
52.5°	947.1	949.7	771.6	677.7	693.1	648.5	621.3	590.0	561.3	543.3	521.3
55°	1208.2	1226.7	853.7	721.9	752.6	700.3	655.2	623.4	591.0	571.0	552.0
57.5°	1717.7	1719.2	1190.3	912.2	973.3	885.0	803.4	776.2	718.3	692.1	684.9
60°	1910.6	1917.3	1597.1	1310.3	1436.5	1299.6	1202.1	1149.8	1071.3	994.8	978.4
62.5°	2025.5	2030.1	1815.2	1576.1	1750.0	1660.2	1604.3	1597.6	1519.7	1455.0	1421.2
65°	2103.0	2103.5	1970.1	1748.5	1938.3	1858.3	1870.6	1935.7	1917.3	1907.0	1863.9
67.5°	2015.8	2019.4	2049.1	1884.4	2070.7	2020.4	2083.0	2156.9	2164.1	2169.7	2125.1
70°	1469.9	1478.1	1898.8	1829.0	2026.0	2023.5	2109.2	2219.5	2276.4	2295.9	2264.1
72.5°	931.7	924.5	1256.5	1343.7	1481.2	1606.4	1768.0	1942.9	2089.7	2125.6	2098.4
75°	651.6	649.5	677.7	692.1	805.5	836.8	1001.5	1261.6	1450.4	1554.5	1559.2
77.5°	413.5	413.5	408.9	386.3	399.7	386.8	395.1	452.5	558.7	761.4	803.4
80°	341.7	342.2	303.7	279.6	294.5	291.4	277.0	270.9	263.7	260.1	279.6
82.5°	230.4	226.8	257.6	237.0	244.7	241.6	236.0	229.3	219.1	200.1	183.2
85°	169.3	166.7	157.5	141.6	150.3	148.8	145.7	138.5	133.4	117.5	107.7
87.5°	127.2	126.2	114.9	92.3	97.5	91.3	82.6	73.9	67.7	58.0	50.8
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):

	45°	47.5°	50°	52.5°	55°	67.5°	90°	112.5°	135°	157.5°	180°
0°	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2.5°	144.7	144.7	144.7	141.6	138.0	102.1	88.8	87.7	90.3	126.2	140.1
5°	118.5	116.5	115.9	115.9	117.0	138.0	86.7	88.8	125.2	87.7	87.2
7.5°	118.5	116.5	115.4	113.9	113.9	107.7	84.7	121.6	84.7	98.5	140.1
10°	170.3	165.2	164.2	166.2	162.1	155.5	123.6	129.3	118.0	139.6	140.1
12.5°	214.5	214.5	213.4	218.6	216.0	152.4	135.4	125.2	170.8	147.2	187.3
15°	230.9	213.9	217.5	216.5	211.9	221.1	167.3	158.0	162.1	171.4	180.6
17.5°	262.7	281.2	291.9	278.6	243.7	231.4	201.6	161.6	185.2	195.5	219.6
20°	282.7	280.1	287.8	276.0	261.1	265.8	241.6	235.0	201.6	193.9	201.6
22.5°	309.4	312.4	327.8	309.4	302.7	305.3	274.5	241.1	196.5	232.4	220.1
25°	343.2	354.5	362.7	353.5	328.4	360.7	306.8	285.3	212.9	206.2	223.7
27.5°	394.0	394.5	390.9	379.7	373.5	377.1	343.7	271.4	212.9	197.0	193.4
30°	422.8	427.4	443.3	416.6	407.9	409.9	348.4	293.5	215.0	172.4	182.1
32.5°	479.7	464.8	455.6	423.8	442.3	411.5	387.4	306.8	206.2	160.6	161.6
35°	491.5	487.4	492.5	447.4	449.4	447.4	375.6	312.4	190.9	140.6	127.8
37.5°	516.6	504.3	496.6	471.0	478.2	437.1	376.6	309.4	180.1	115.9	103.6
40°	520.7	522.3	517.2	475.1	482.3	424.8	368.4	303.7	168.3	93.9	95.4
42.5°	532.0	520.7	511.5	475.1	483.3	419.7	375.0	299.1	151.9	81.1	89.3
45°	527.4	516.6	506.4	474.1	478.7	420.7	382.2	295.0	134.9	75.9	89.3
47.5°	521.8	512.5	499.7	476.1	478.2	429.4	396.1	293.0	114.4	75.4	89.8
50°	523.3	513.1	500.7	482.8	482.3	436.6	410.4	303.7	92.3	75.9	88.8
52.5°	529.5	518.2	504.3	490.5	488.9	468.4	486.9	313.5	74.9	75.9	87.2
55°	566.9	554.1	546.9	551.0	549.5	609.0	708.5	324.2	64.6	75.4	85.2
57.5°	721.9	713.1	718.3	749.1	756.2	854.2	912.2	338.6	60.5	74.4	83.1
60°	1034.8	1042.0	1023.5	1051.8	1036.9	1031.7	1002.0	366.3	58.0	72.9	81.1
62.5°	1444.2	1420.1	1354.5	1348.8	1293.9	1131.8	1013.8	373.5	56.4	71.3	78.5
65°	1864.4	1768.5	1634.1	1582.8	1485.3	1182.6	956.8	347.3	55.4	70.3	74.9
67.5°	2143.0	2017.8	1833.7	1725.4	1579.2	1131.3	736.7	300.6	53.9	68.2	70.8
70°	2267.7	2108.1	1877.3	1702.8	1504.3	861.9	389.9	246.8	51.3	65.2	68.7
72.5°	2091.7	1937.8	1658.7	1442.7	1170.3	534.6	198.6	176.5	47.7	60.0	68.2
75°	1492.0	1321.1	1033.8	840.9	631.6	242.7	112.4	83.6	42.6	54.4	67.2
77.5°	746.5	598.7	418.7	331.4	260.1	125.7	49.8	41.6	36.9	48.2	56.4
80°	264.7	244.7	223.2	212.4	183.2	67.2	34.9	33.3	32.3	40.0	41.0
82.5°	175.0	163.2	149.8	140.6	112.9	46.7	27.2	28.7	26.7	32.8	28.2
85°	100.6	95.4	85.2	74.9	61.1	35.4	23.1	24.6	18.5	25.1	18.0
87.5°	47.2	44.6	42.1	39.0	34.9	25.7	12.8	23.1	11.8	15.9	9.2
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)