

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: P157090

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157090
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.2 lumens
Efficiency: N/A
Efficacy: 101.9 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

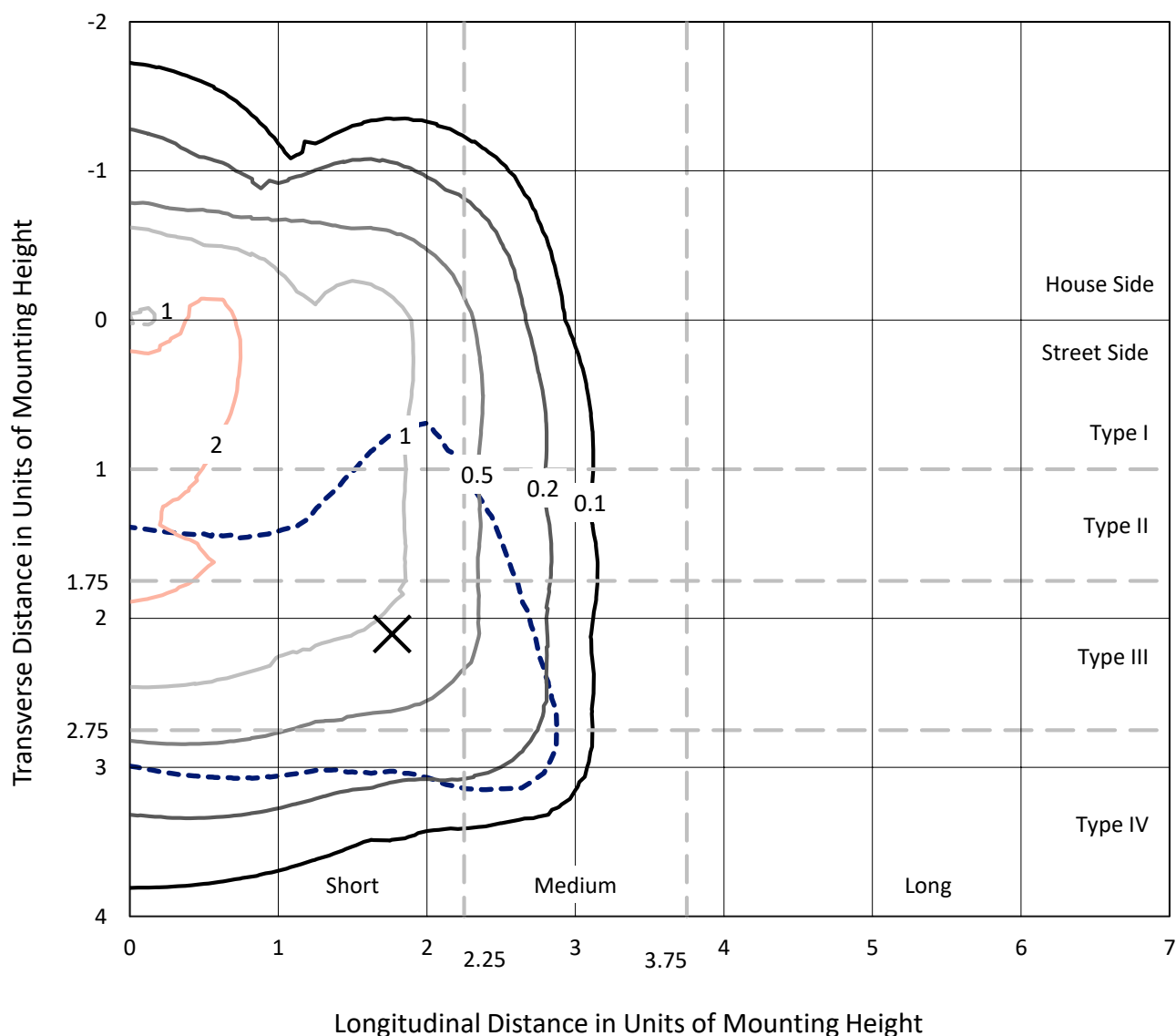


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

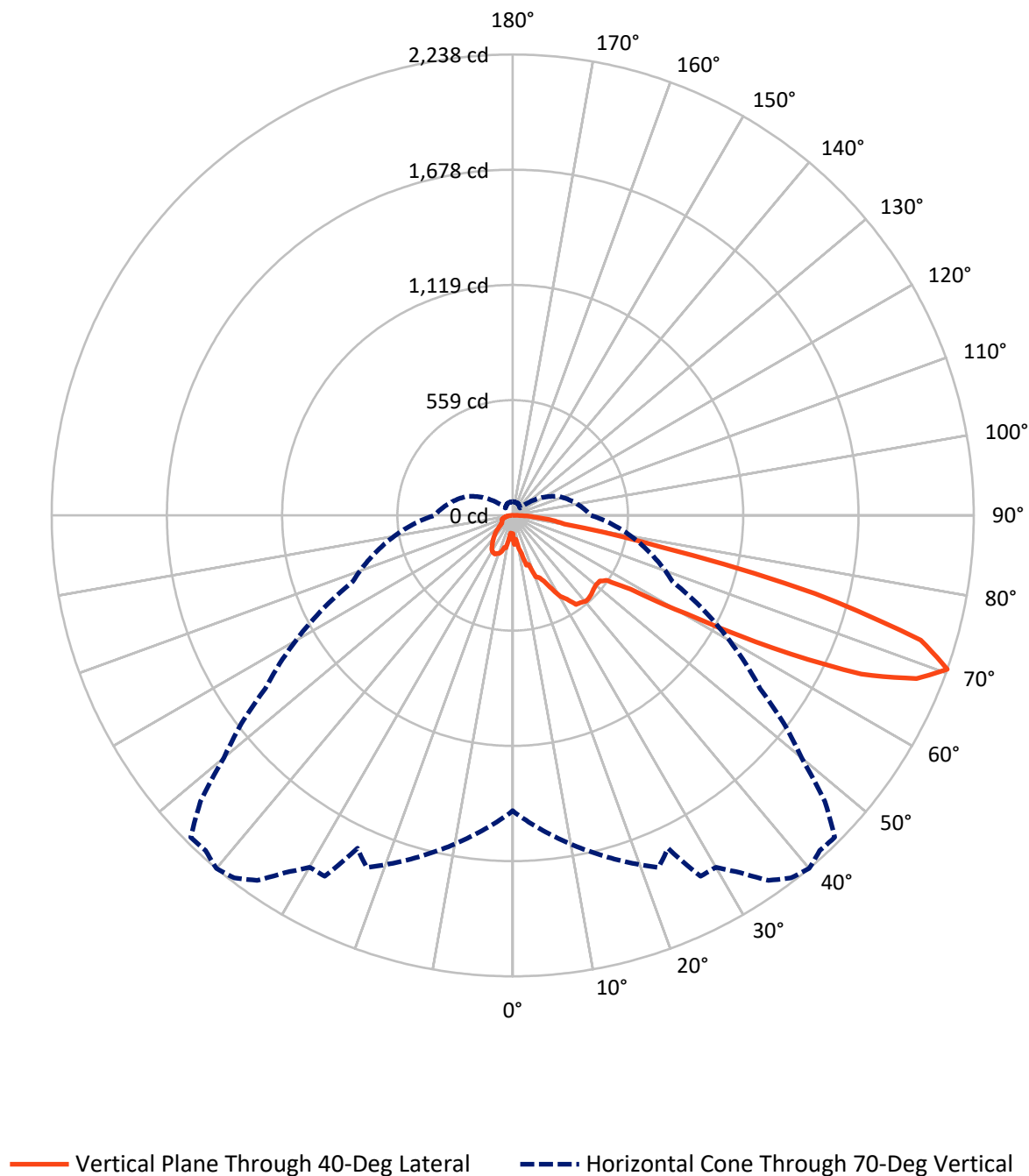


Based on 10 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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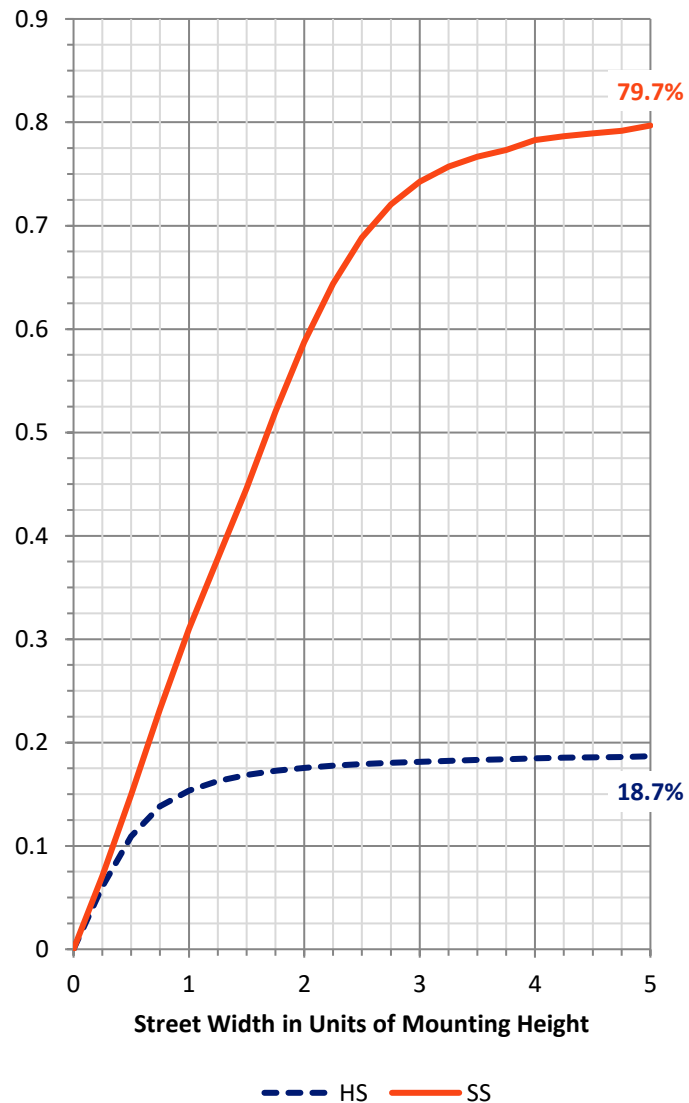
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	476.8	0.0	476.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	2039.4	0.0	2039.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	2516.2	0.0	2516.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.3	0.4
10°-20°	56.1	2.2
20°-30°	137.7	5.5
30°-40°	230.4	9.2
40°-50°	291.6	11.6
50°-60°	452.6	18.0
60°-70°	850.5	33.8
70°-80°	419.5	16.7
80°-90°	66.5	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°	2516.2	100.0
0°-180°	2516.2	100.0

Coefficient of Utilization



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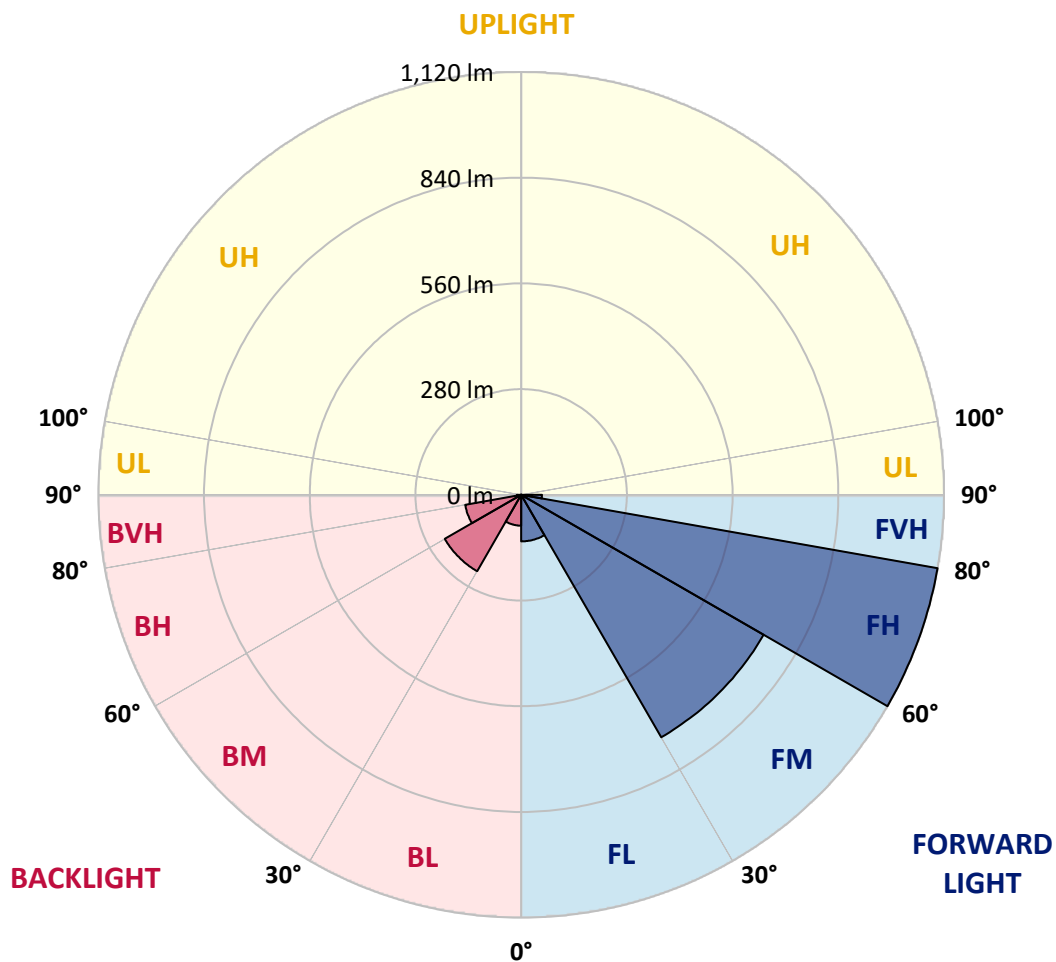
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.3	4.9			
FM	(30°-60°)	741.2	29.5			
FH	(60°-80°)	1119.6	44.5			G1/1800
FVH	(80°-90°)	55.3	2.2			G1/100
BL	(0°-30°)	81.8	3.2	B0/110		
BM	(30°-60°)	233.4	9.3	B1/1000		
BH	(60°-80°)	150.5	6.0	B1/500		G1/500
BVH	(80°-90°)	11.2	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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	140.5	137.5	140.5	140.0	142.5	142.0	142.0	140.5	140.0	141.5	141.0
5°	118.0	118.5	116.0	113.5	115.0	115.0	115.0	114.0	113.5	115.5	117.0
7.5°	175.0	175.5	174.0	171.5	175.0	171.5	170.0	161.0	145.0	118.5	117.0
10°	177.0	176.5	173.0	171.0	171.5	171.5	170.5	169.0	162.5	163.0	166.0
12.5°	229.5	229.5	221.5	215.0	218.0	212.0	178.5	172.0	169.0	190.0	209.5
15°	245.0	232.5	225.0	215.0	218.5	221.0	255.0	257.5	263.0	251.0	249.0
17.5°	287.0	287.5	276.5	274.0	303.5	290.5	261.0	257.5	262.0	250.5	248.5
20°	339.0	338.0	304.0	350.0	312.5	310.5	303.0	300.0	312.0	318.0	285.0
22.5°	352.5	353.0	371.0	390.5	360.0	347.5	334.0	334.0	331.5	327.5	310.5
25°	433.0	434.0	384.5	409.5	376.0	391.0	384.5	371.0	360.5	354.0	346.5
27.5°	474.0	467.5	450.0	481.0	461.5	445.5	416.0	390.0	401.5	402.0	390.5
30°	541.5	541.0	527.5	526.5	488.5	469.0	475.0	458.5	448.0	456.5	422.5
32.5°	646.0	649.0	561.0	554.0	541.0	538.5	517.0	506.0	483.0	484.5	455.5
35°	764.0	765.0	638.0	593.5	601.0	575.5	540.5	531.5	512.5	530.5	489.5
37.5°	811.0	810.0	703.5	637.0	625.5	590.5	574.0	566.0	542.5	537.0	502.0
40°	888.0	888.5	745.5	656.5	662.5	618.0	604.0	578.0	545.5	548.0	507.5
42.5°	913.5	913.5	758.0	661.0	674.5	635.5	607.0	579.0	550.5	545.5	513.0
45°	924.0	924.5	752.0	664.5	659.5	632.0	599.5	574.5	545.0	538.5	508.5
47.5°	922.5	922.0	741.5	663.5	653.5	620.5	599.5	572.0	539.0	530.5	503.0
50°	911.5	912.5	738.5	658.0	661.0	616.0	600.0	569.0	539.0	526.5	502.5
52.5°	923.0	925.5	752.0	660.5	675.5	632.0	605.5	575.0	547.0	529.5	508.0
55°	1177.5	1195.5	832.0	703.5	733.5	682.5	638.5	607.5	576.0	556.5	538.0
57.5°	1674.0	1675.5	1160.0	889.0	948.5	862.5	783.0	756.5	700.0	674.5	667.5
60°	1862.0	1868.5	1556.5	1277.0	1400.0	1266.5	1171.5	1120.5	1044.0	969.5	953.5
62.5°	1974.0	1978.5	1769.0	1536.0	1705.5	1618.0	1563.5	1557.0	1481.0	1418.0	1385.0
65°	2049.5	2050.0	1920.0	1704.0	1889.0	1811.0	1823.0	1886.5	1868.5	1858.5	1816.5
67.5°	1964.5	1968.0	1997.0	1836.5	2018.0	1969.0	2030.0	2102.0	2109.0	2114.5	2071.0
70°	1432.5	1440.5	1850.5	1782.5	1974.5	1972.0	2055.5	2163.0	2218.5	2237.5	2206.5
72.5°	908.0	901.0	1224.5	1309.5	1443.5	1565.5	1723.0	1893.5	2036.5	2071.5	2045.0
75°	635.0	633.0	660.5	674.5	785.0	815.5	976.0	1229.5	1413.5	1515.0	1519.5
77.5°	403.0	403.0	398.5	376.5	389.5	377.0	385.0	441.0	544.5	742.0	783.0
80°	333.0	333.5	296.0	272.5	287.0	284.0	270.0	264.0	257.0	253.5	272.5
82.5°	224.5	221.0	251.0	231.0	238.5	235.5	230.0	223.5	213.5	195.0	178.5
85°	165.0	162.5	153.5	138.0	146.5	145.0	142.0	135.0	130.0	114.5	105.0
87.5°	124.0	123.0	112.0	90.0	95.0	89.0	80.5	72.0	66.0	56.5	49.5
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°	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
2.5°	141.0	141.0	141.0	138.0	134.5	99.5	86.5	85.5	88.0	123.0	136.5
5°	115.5	113.5	113.0	113.0	114.0	134.5	84.5	86.5	122.0	85.5	85.0
7.5°	115.5	113.5	112.5	111.0	111.0	105.0	82.5	118.5	82.5	96.0	136.5
10°	166.0	161.0	160.0	162.0	158.0	151.5	120.5	126.0	115.0	136.0	136.5
12.5°	209.0	209.0	208.0	213.0	210.5	148.5	132.0	122.0	166.5	143.5	182.5
15°	225.0	208.5	212.0	211.0	206.5	215.5	163.0	154.0	158.0	167.0	176.0
17.5°	256.0	274.0	284.5	271.5	237.5	225.5	196.5	157.5	180.5	190.5	214.0
20°	275.5	273.0	280.5	269.0	254.5	259.0	235.5	229.0	196.5	189.0	196.5
22.5°	301.5	304.5	319.5	301.5	295.0	297.5	267.5	235.0	191.5	226.5	214.5
25°	334.5	345.5	353.5	344.5	320.0	351.5	299.0	278.0	207.5	201.0	218.0
27.5°	384.0	384.5	381.0	370.0	364.0	367.5	335.0	264.5	207.5	192.0	188.5
30°	412.0	416.5	432.0	406.0	397.5	399.5	339.5	286.0	209.5	168.0	177.5
32.5°	467.5	453.0	444.0	413.0	431.0	401.0	377.5	299.0	201.0	156.5	157.5
35°	479.0	475.0	480.0	436.0	438.0	436.0	366.0	304.5	186.0	137.0	124.5
37.5°	503.5	491.5	484.0	459.0	466.0	426.0	367.0	301.5	175.5	113.0	101.0
40°	507.5	509.0	504.0	463.0	470.0	414.0	359.0	296.0	164.0	91.5	93.0
42.5°	518.5	507.5	498.5	463.0	471.0	409.0	365.5	291.5	148.0	79.0	87.0
45°	514.0	503.5	493.5	462.0	466.5	410.0	372.5	287.5	131.5	74.0	87.0
47.5°	508.5	499.5	487.0	464.0	466.0	418.5	386.0	285.5	111.5	73.5	87.5
50°	510.0	500.0	488.0	470.5	470.0	425.5	400.0	296.0	90.0	74.0	86.5
52.5°	516.0	505.0	491.5	478.0	476.5	456.5	474.5	305.5	73.0	74.0	85.0
55°	552.5	540.0	533.0	537.0	535.5	593.5	690.5	316.0	63.0	73.5	83.0
57.5°	703.5	695.0	700.0	730.0	737.0	832.5	889.0	330.0	59.0	72.5	81.0
60°	1008.5	1015.5	997.5	1025.0	1010.5	1005.5	976.5	357.0	56.5	71.0	79.0
62.5°	1407.5	1384.0	1320.0	1314.5	1261.0	1103.0	988.0	364.0	55.0	69.5	76.5
65°	1817.0	1723.5	1592.5	1542.5	1447.5	1152.5	932.5	338.5	54.0	68.5	73.0
67.5°	2088.5	1966.5	1787.0	1681.5	1539.0	1102.5	718.0	293.0	52.5	66.5	69.0
70°	2210.0	2054.5	1829.5	1659.5	1466.0	840.0	380.0	240.5	50.0	63.5	67.0
72.5°	2038.5	1888.5	1616.5	1406.0	1140.5	521.0	193.5	172.0	46.5	58.5	66.5
75°	1454.0	1287.5	1007.5	819.5	615.5	236.5	109.5	81.5	41.5	53.0	65.5
77.5°	727.5	583.5	408.0	323.0	253.5	122.5	48.5	40.5	36.0	47.0	55.0
80°	258.0	238.5	217.5	207.0	178.5	65.5	34.0	32.5	31.5	39.0	40.0
82.5°	170.5	159.0	146.0	137.0	110.0	45.5	26.5	28.0	26.0	32.0	27.5
85°	98.0	93.0	83.0	73.0	59.5	34.5	22.5	24.0	18.0	24.5	17.5
87.5°	46.0	43.5	41.0	38.0	34.0	25.0	12.5	22.5	11.5	15.5	9.0
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)