

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: P156950

Luminaire Tested: **UTLD-E02-LED-E-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156950
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33665)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-5WQ
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5650.9 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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

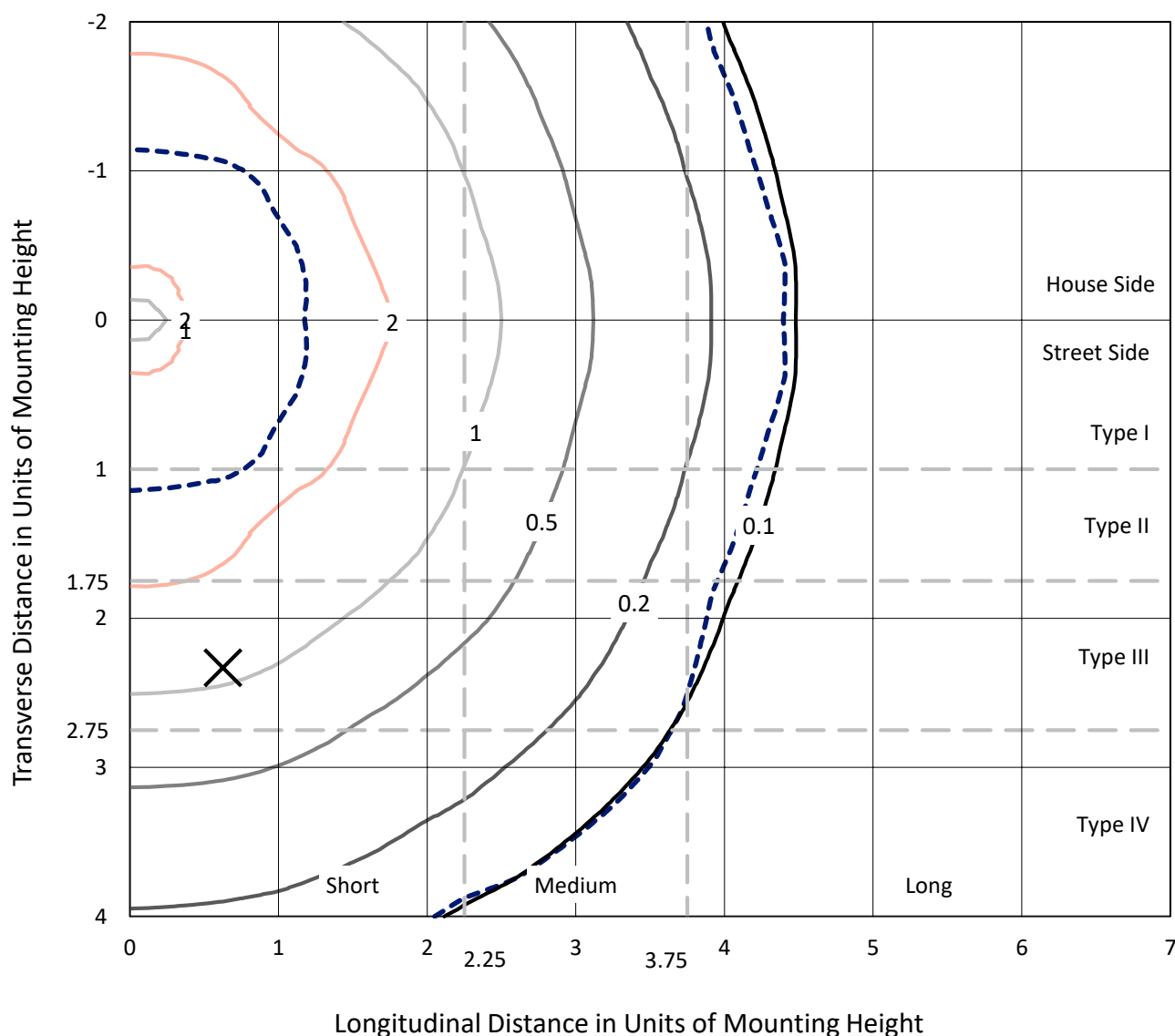


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

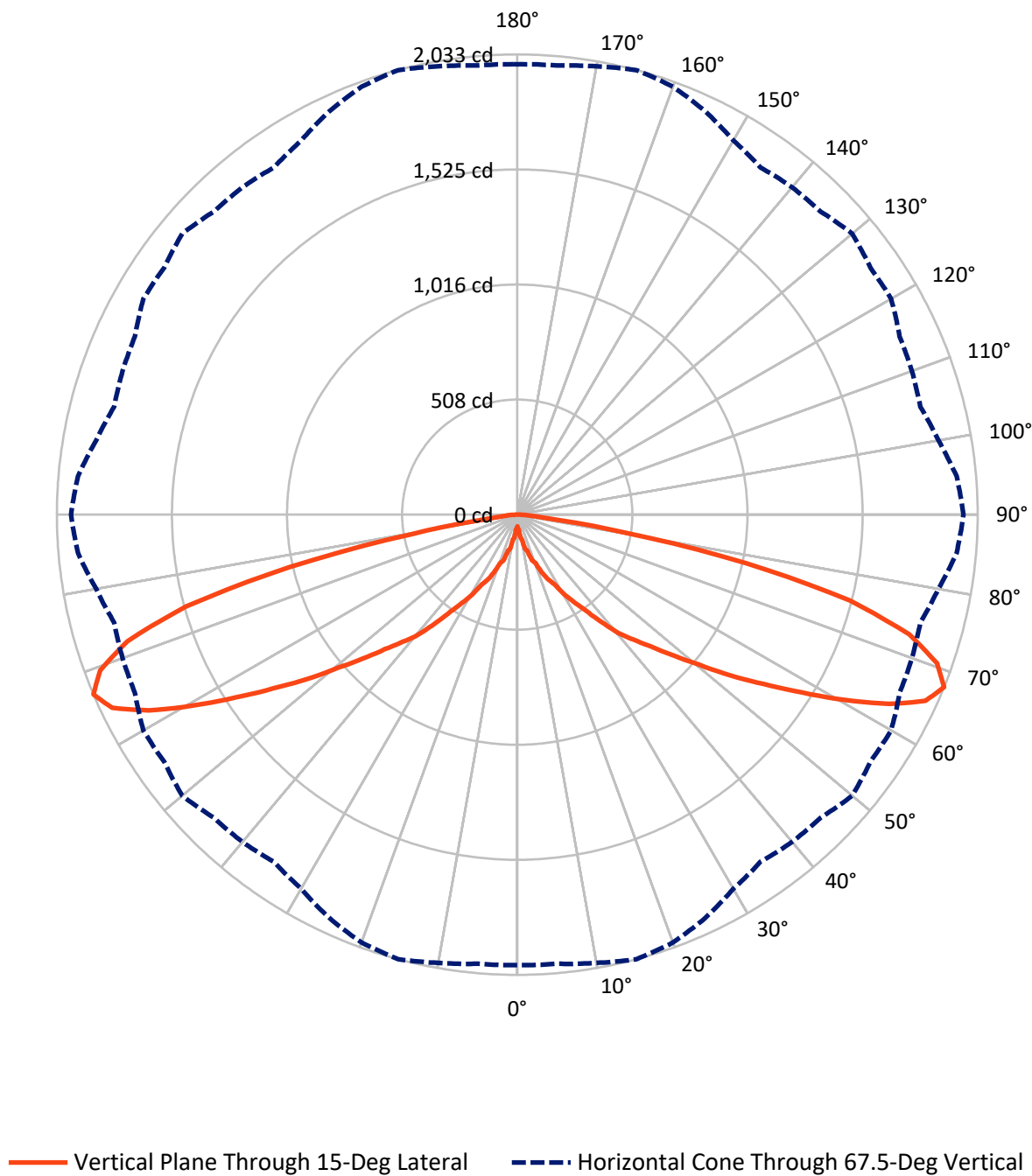


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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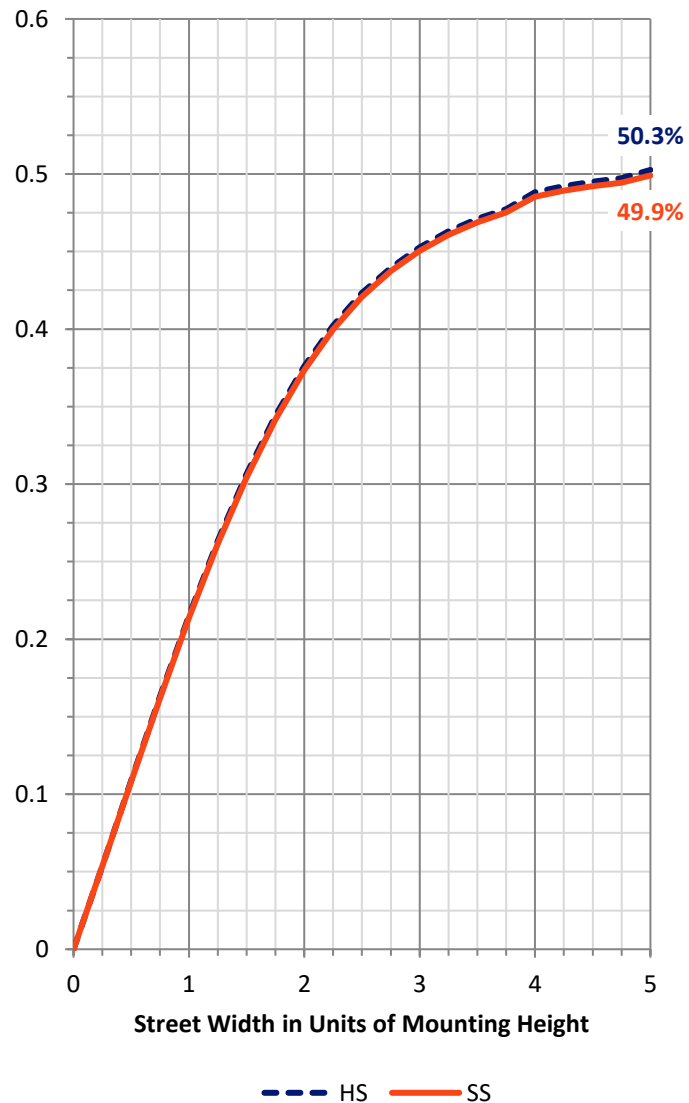
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2825.5	0.0	2825.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2825.5	0.0	2825.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5650.9	0.0	5650.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	0.1
10°-20°	46.7	0.8
20°-30°	154.6	2.7
30°-40°	334.4	5.9
40°-50°	625.7	11.1
50°-60°	1135.1	20.1
60°-70°	1795.5	31.8
70°-80°	1411.8	25.0
80°-90°	139.5	2.5
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°	5650.9	100.0
0°-180°	5650.9	100.0

Coefficient of Utilization



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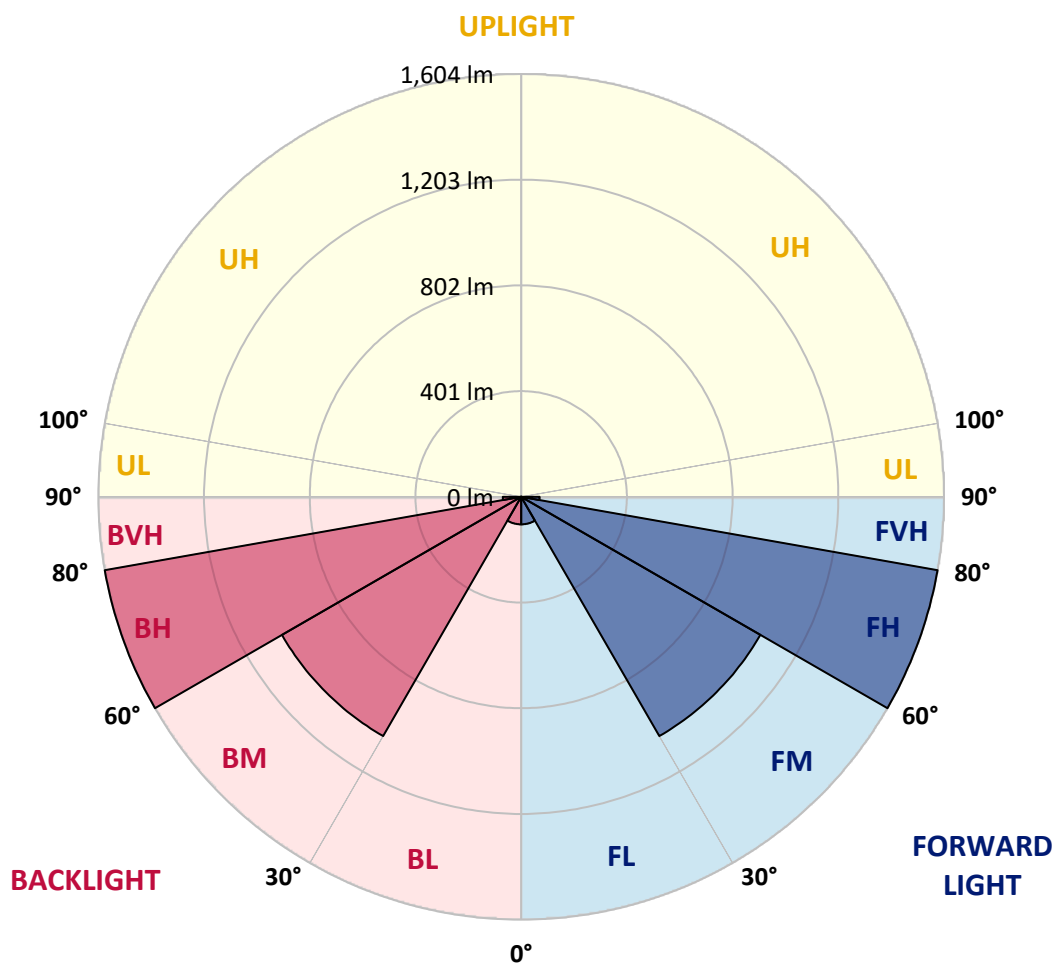
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	104.4	1.8			
FM	(30°-60°)	1047.6	18.5			
FH	(60°-80°)	1603.7	28.4			G1/1800
FVH	(80°-90°)	69.7	1.2			G1/100
BL	(0°-30°)	104.4	1.8	B0/110		
BM	(30°-60°)	1047.6	18.5	B2/2500		
BH	(60°-80°)	1603.7	28.4	B3/2500		G1/1800
BVH	(80°-90°)	69.7	1.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	81.5	81.2	81.2	81.2	82.2	79.8	76.0	73.2	71.5	71.2	69.5
5°	64.5	64.2	64.2	64.5	64.2	65.0	64.8	66.5	66.2	70.8	76.8
7.5°	103.5	104.0	103.8	102.5	100.0	92.8	87.2	82.8	69.5	67.8	65.8
10°	112.0	112.0	112.0	110.2	110.5	110.5	109.5	107.5	106.0	102.8	87.5
12.5°	155.0	155.5	155.8	154.8	151.5	136.5	132.2	117.8	114.8	134.2	138.5
15°	167.5	168.2	167.8	165.0	164.0	162.2	159.5	171.5	175.2	160.0	148.8
17.5°	214.5	215.2	214.2	212.5	208.2	195.2	199.2	195.5	193.2	190.0	201.0
20°	247.0	248.5	237.2	227.2	221.0	231.0	243.0	238.0	224.8	226.2	232.8
22.5°	282.0	282.0	281.0	275.8	275.8	289.0	267.0	262.5	278.8	259.5	252.2
25°	340.5	339.0	336.0	315.8	309.2	307.8	303.5	312.8	300.0	325.5	340.5
27.5°	362.0	360.5	353.0	346.8	363.0	357.8	351.5	327.8	377.2	353.0	361.0
30°	418.0	418.0	411.5	407.2	411.0	387.2	379.2	407.2	399.2	402.5	438.5
32.5°	491.0	491.5	483.0	459.2	437.5	441.8	438.0	440.0	452.5	449.2	470.2
35°	571.5	551.2	537.5	519.5	507.2	501.8	494.5	478.8	497.0	493.0	514.8
37.5°	618.5	620.5	609.2	598.8	590.8	555.8	540.8	547.0	547.8	537.5	575.2
40°	715.5	716.5	700.0	687.8	674.8	630.2	606.2	600.2	601.8	603.2	629.8
42.5°	779.5	779.5	766.5	755.5	733.0	703.8	679.2	667.0	669.8	666.8	695.2
45°	855.0	856.5	846.2	832.5	808.2	791.5	755.2	746.8	747.8	743.0	774.5
47.5°	951.0	950.8	946.8	931.5	911.5	882.5	857.2	836.2	838.5	835.5	868.2
50°	1063.5	1063.5	1061.0	1041.8	1030.0	999.2	966.5	940.5	939.2	939.5	976.8
52.5°	1189.0	1190.5	1194.2	1181.0	1163.2	1120.8	1081.5	1054.2	1052.8	1055.5	1099.2
55°	1329.0	1336.0	1335.0	1320.2	1309.0	1261.2	1209.0	1183.2	1176.2	1181.8	1225.2
57.5°	1486.0	1489.5	1493.5	1482.0	1454.5	1411.8	1340.8	1319.5	1308.0	1319.2	1365.0
60°	1660.0	1668.2	1667.2	1661.8	1630.5	1583.5	1486.5	1466.2	1459.8	1465.2	1515.5
62.5°	1843.0	1843.2	1853.8	1841.8	1812.0	1765.2	1655.0	1619.5	1610.2	1614.8	1668.8
65°	1971.0	1972.5	1984.2	1981.5	1958.5	1908.2	1827.0	1768.0	1769.0	1774.8	1824.8
67.5°	1989.5	1991.2	2010.5	2032.8	2010.8	1965.2	1908.0	1872.2	1887.5	1893.5	1930.8
70°	1915.0	1918.8	1941.8	1965.8	1961.2	1926.5	1875.5	1863.0	1878.2	1891.0	1926.2
72.5°	1769.0	1771.0	1788.0	1810.0	1792.5	1762.2	1704.0	1725.0	1722.8	1739.5	1774.2
75°	1501.5	1494.5	1511.8	1517.5	1487.8	1456.5	1408.5	1442.8	1428.0	1442.2	1460.0
77.5°	1009.0	1002.0	1008.8	1033.5	1012.5	1009.5	997.0	1035.2	1041.5	1050.5	1051.8
80°	390.0	403.8	439.0	478.2	489.5	519.2	543.2	587.0	616.2	640.2	628.0
82.5°	77.0	84.5	102.2	124.0	148.5	178.5	214.8	252.0	288.2	307.2	292.2
85°	28.0	33.8	42.8	50.2	53.0	57.0	63.8	76.8	89.5	92.0	93.0
87.5°	7.5	13.0	24.2	32.8	33.0	29.8	31.5	33.0	29.0	23.0	31.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
2.5°	67.5	62.5	57.5	54.8	53.8	52.8	52.0	51.5
5°	78.0	81.0	77.5	71.2	62.5	57.5	54.0	53.0
7.5°	66.5	66.5	76.8	80.2	71.2	63.8	56.2	55.0
10°	75.0	82.0	89.5	97.8	110.5	100.0	84.2	81.5
12.5°	136.2	115.8	99.2	99.2	112.5	113.8	91.2	88.5
15°	144.8	145.5	152.0	138.0	135.2	146.8	131.0	126.0
17.5°	183.2	180.8	176.2	155.5	145.0	148.8	150.5	145.5
20°	213.0	202.2	251.8	256.5	234.2	235.0	231.2	227.0
22.5°	293.8	296.0	278.0	277.5	260.5	290.0	319.2	306.5
25°	310.2	326.2	380.8	372.0	361.5	346.2	354.0	336.0
27.5°	404.0	394.0	404.5	394.0	422.2	408.2	399.8	395.5
30°	424.5	442.8	453.5	445.2	447.2	445.2	430.8	438.0
32.5°	485.5	477.2	493.8	507.2	516.2	518.2	493.8	508.0
35°	526.0	547.2	545.5	540.8	545.0	553.0	540.0	540.5
37.5°	582.0	587.2	583.0	581.8	584.0	588.5	590.5	583.0
40°	633.2	637.0	633.8	638.2	641.8	643.8	660.8	634.5
42.5°	705.2	699.8	704.5	710.5	709.2	709.0	724.5	710.5
45°	786.2	785.0	781.2	785.2	795.0	780.5	805.0	801.0
47.5°	880.2	880.2	873.8	877.5	893.2	882.2	903.8	910.5
50°	989.5	992.2	974.2	984.2	988.2	990.8	1011.5	1030.0
52.5°	1111.8	1114.2	1089.2	1095.0	1092.0	1111.0	1133.8	1162.5
55°	1244.8	1240.5	1209.2	1219.8	1221.0	1253.8	1267.8	1315.0
57.5°	1377.2	1376.0	1354.5	1354.2	1373.5	1407.8	1419.5	1472.5
60°	1523.2	1523.5	1497.0	1503.0	1520.8	1554.2	1598.8	1643.0
62.5°	1674.2	1685.5	1662.8	1645.2	1664.8	1708.0	1775.0	1809.0
65°	1809.5	1832.2	1795.0	1794.8	1772.5	1843.5	1895.5	1937.5
67.5°	1903.0	1906.0	1862.5	1854.2	1842.2	1888.0	1947.0	1970.0
70°	1903.0	1872.5	1830.0	1823.8	1803.8	1821.5	1893.0	1906.5
72.5°	1751.8	1718.8	1660.8	1670.8	1648.0	1673.0	1729.5	1736.0
75°	1437.0	1392.8	1353.2	1369.2	1356.8	1402.0	1450.8	1440.0
77.5°	1024.8	970.2	918.8	918.2	919.5	930.8	964.5	949.0
80°	591.2	539.2	489.5	458.8	427.2	401.8	386.8	367.0
82.5°	260.2	209.5	171.2	138.0	117.2	94.8	83.2	71.5
85°	82.2	67.2	57.5	52.5	48.0	45.0	39.0	33.5
87.5°	37.0	36.2	34.0	35.0	35.0	30.2	21.0	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)