

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: P199203

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199203  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV2-AF-02-LED-U-SL4-8030-600-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5282 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

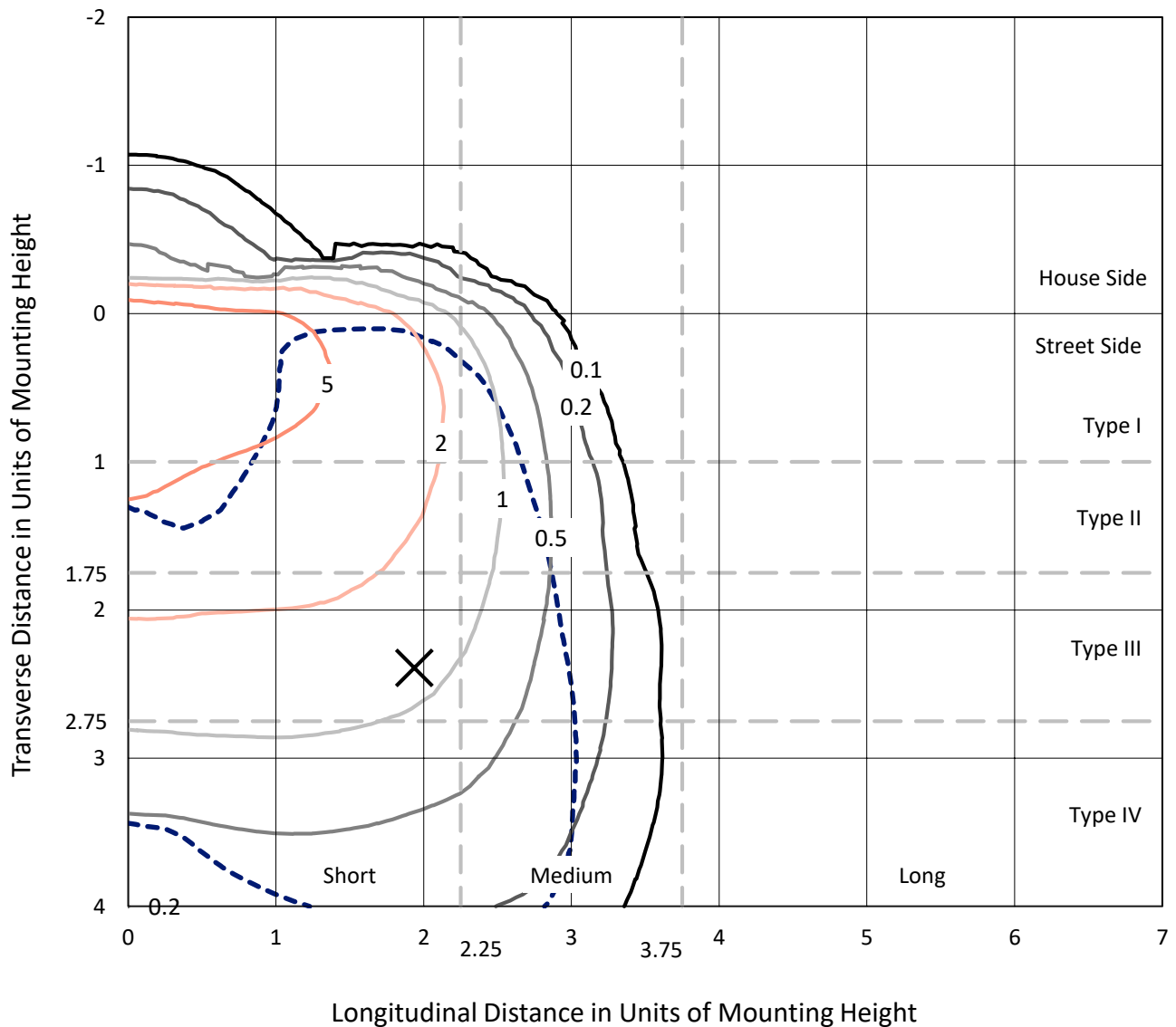


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

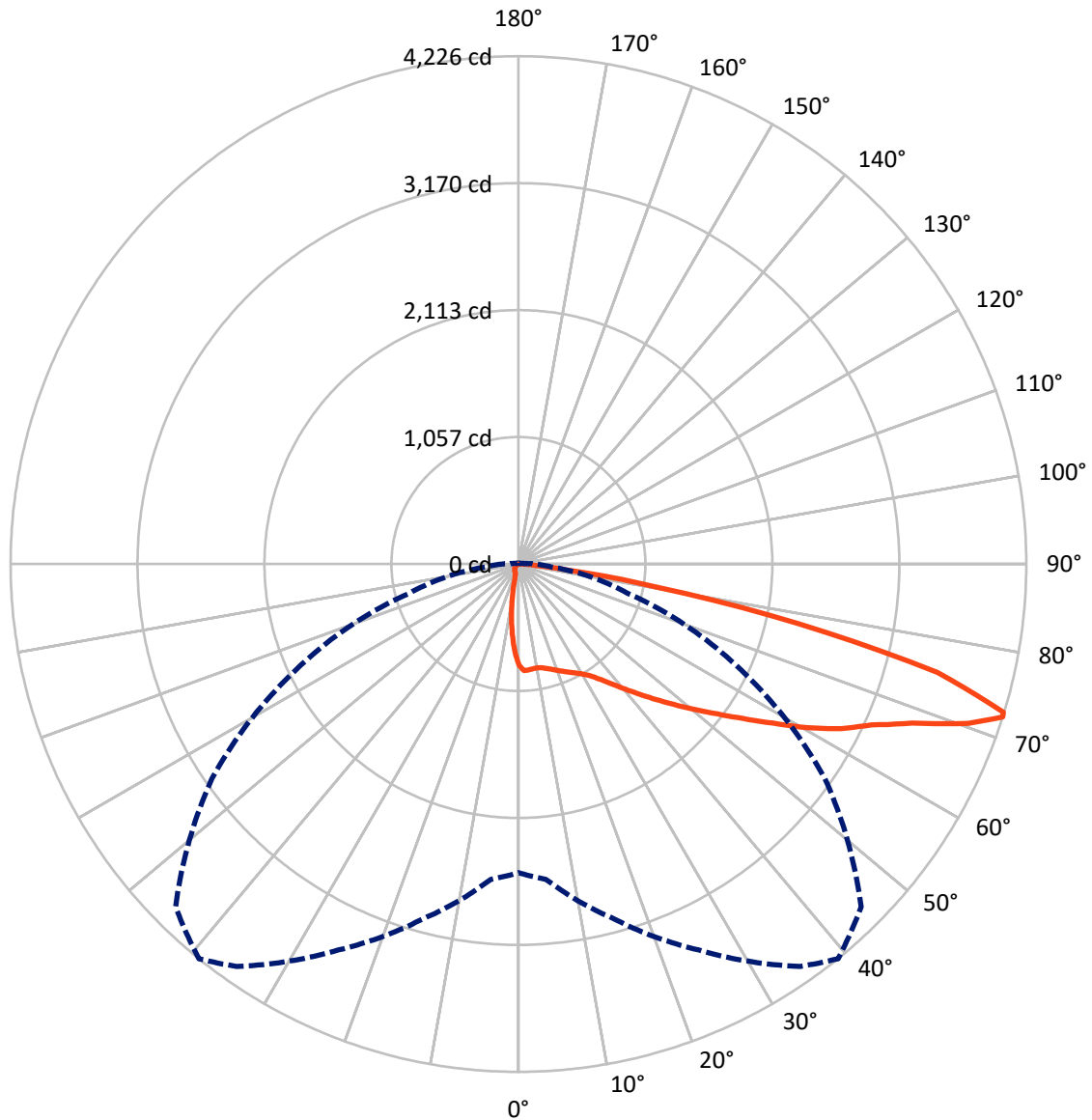


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72-Deg Vertical

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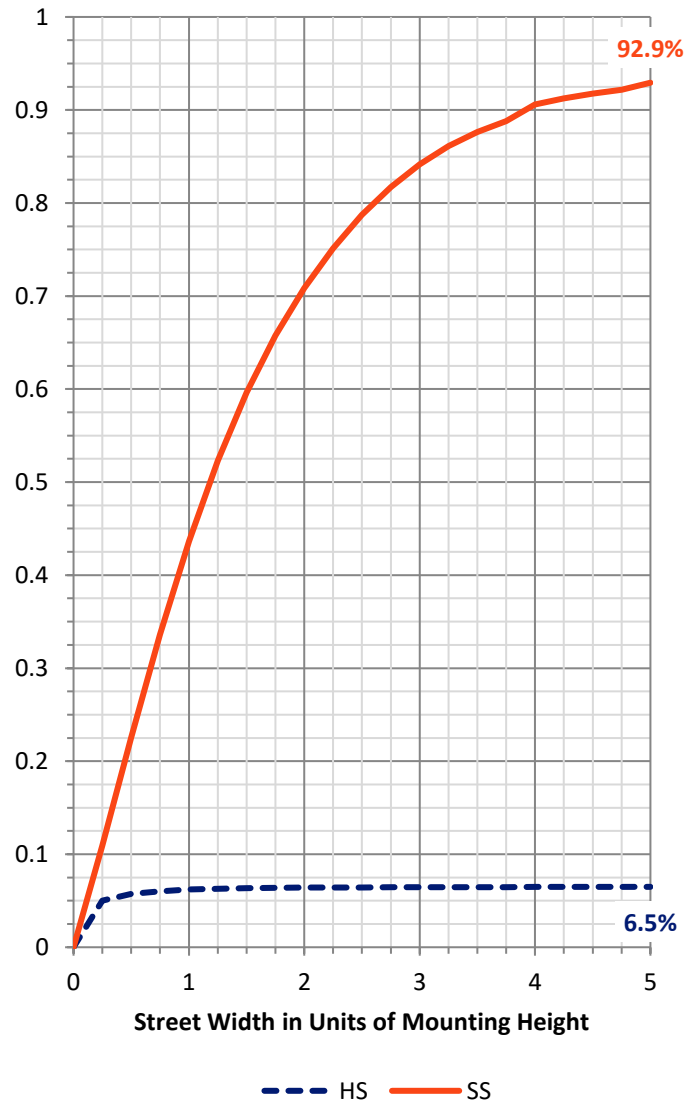
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	346.2	0.0	346.2
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	4935.8	0.0	4935.8
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	5282.0	0.0	5282.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.8	1.3
10°-20°	166.5	3.2
20°-30°	276.5	5.2
30°-40°	440.7	8.3
40°-50°	727.4	13.8
50°-60°	1098.5	20.8
60°-70°	1430.9	27.1
70°-80°	966.9	18.3
80°-90°	105.9	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°	5282.0	100.0
0°-180°	5282.0	100.0



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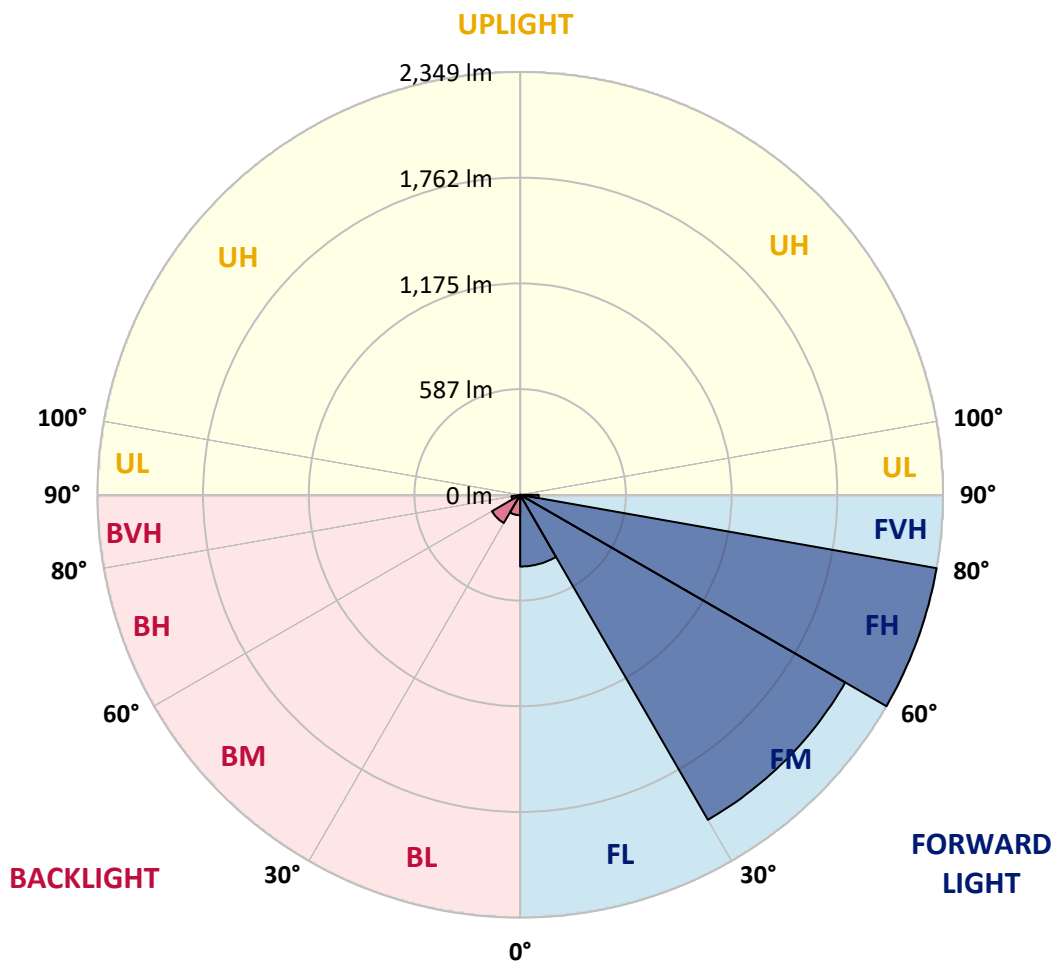
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	398.4	7.5			
FM	(30°-60°)	2085.4	39.5			
FH	(60°-80°)	2349.2	44.5			G2/5000
FVH	(80°-90°)	102.8	1.9			G2/225
BL	(0°-30°)	113.4	2.1	B1/500		
BM	(30°-60°)	181.1	3.4	B0/220		
BH	(60°-80°)	48.7	0.9	B0/110		G0/110
BVH	(80°-90°)	3.0	0.1			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4
2.5°	900.2	901.9	899.8	896.1	890.7	887.4	882.8	872.8	860.4	849.6	837.1
5°	907.3	908.1	905.6	898.6	890.3	885.7	879.9	869.1	856.2	841.3	818.8
7.5°	909.4	908.9	906.0	897.3	884.5	878.6	868.7	855.4	842.1	828.4	803.1
10°	908.5	908.5	906.5	898.2	883.6	878.2	867.0	852.9	836.3	822.6	795.6
12.5°	905.6	907.3	906.0	901.5	890.7	886.5	876.6	862.4	846.7	832.5	803.9
15°	909.4	911.9	914.3	912.7	906.5	902.7	893.6	879.1	866.2	851.2	820.5
17.5°	924.3	929.7	935.5	935.9	929.3	922.7	912.3	897.3	884.9	871.2	837.9
20°	952.5	956.7	967.5	969.6	956.3	946.7	932.2	914.8	902.3	890.7	854.1
22.5°	994.5	999.1	1007.8	1004.9	982.4	971.2	953.0	933.0	920.2	913.5	872.8
25°	1058.0	1059.3	1061.3	1048.5	1011.5	999.1	976.6	954.2	943.8	943.0	899.4
27.5°	1132.8	1134.4	1125.3	1096.6	1043.9	1027.7	1002.4	982.0	977.0	983.3	933.0
30°	1218.3	1218.7	1193.4	1146.9	1081.3	1063.4	1037.3	1014.8	1019.4	1034.8	976.2
32.5°	1305.9	1301.8	1266.9	1206.3	1132.3	1110.8	1088.3	1065.9	1079.2	1110.3	1039.3
35°	1386.1	1384.4	1343.3	1272.7	1198.8	1179.7	1163.5	1139.8	1161.4	1212.1	1125.3
37.5°	1466.2	1464.9	1418.0	1344.5	1280.6	1266.9	1254.8	1236.6	1271.9	1346.2	1240.3
40°	1554.6	1552.6	1494.8	1424.3	1375.7	1368.2	1361.1	1353.3	1413.5	1516.9	1383.6
42.5°	1663.8	1654.7	1576.2	1511.0	1480.3	1482.4	1482.8	1490.7	1585.0	1719.9	1552.6
45°	1789.2	1768.9	1658.0	1604.1	1595.3	1607.8	1620.2	1653.1	1784.7	1953.7	1739.4
47.5°	1910.9	1878.1	1752.3	1704.1	1722.0	1747.7	1777.6	1841.6	2008.9	2198.3	1908.8
50°	2015.6	1981.9	1845.7	1805.9	1862.7	1900.9	1954.1	2050.8	2245.6	2405.0	2015.6
52.5°	2097.8	2071.2	1944.5	1918.0	2018.9	2071.2	2154.7	2281.7	2469.0	2541.2	2090.3
55°	2158.4	2145.1	2039.2	2043.0	2192.4	2268.0	2371.8	2515.5	2657.5	2647.1	2146.3
57.5°	2226.9	2216.5	2138.5	2190.4	2401.3	2498.9	2618.9	2734.3	2794.5	2732.2	2201.2
60°	2297.1	2300.4	2258.9	2368.9	2659.6	2767.5	2872.2	2900.8	2912.0	2818.6	2258.9
62.5°	2350.2	2364.3	2368.1	2561.6	2924.5	3016.7	3061.9	3041.6	3039.1	2934.5	2254.3
65°	2411.3	2448.2	2509.7	2772.9	3165.3	3226.0	3258.3	3287.8	3225.5	2968.9	2032.6
67.5°	2516.7	2574.9	2713.1	3032.0	3443.5	3533.2	3625.0	3593.9	3253.4	2618.9	1548.4
70°	2658.7	2729.8	2973.9	3370.5	3821.0	3971.3	4048.1	3569.4	2762.1	1809.6	816.8
72°	2569.1	2633.4	3054.5	3543.2	4088.4	4226.3	4034.0	3113.4	2002.3	938.0	273.6
72.5°	2481.9	2548.3	3028.7	3541.1	4115.0	4220.4	3942.2	2933.6	1771.8	730.0	188.5
75°	1722.0	1805.9	2596.5	3183.2	3715.9	3600.1	3016.3	1776.4	642.0	125.4	62.3
77.5°	890.3	955.0	1575.0	2249.3	2589.8	2371.8	1782.6	770.7	177.7	66.4	41.1
80°	551.8	583.8	736.6	1108.3	1345.4	1176.8	786.5	311.4	113.8	39.4	32.8
82.5°	285.7	310.2	463.8	447.2	497.0	413.2	290.2	260.8	70.2	24.5	33.6
85°	93.8	99.7	284.9	297.3	212.6	142.8	128.7	248.7	20.3	15.8	28.7
87.5°	12.5	14.5	100.1	170.2	104.6	64.8	77.2	87.6	7.1	8.7	7.9
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°	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4	845.4
2.5°	828.8	823.4	806.4	789.4	769.8	752.0	737.9	728.7	732.9	719.2	721.3
5°	805.1	791.4	754.1	713.8	670.2	629.5	597.1	573.0	568.5	547.7	548.5
7.5°	782.3	759.9	699.3	632.8	560.6	502.0	448.9	402.4	385.8	368.7	358.8
10°	769.8	739.1	653.2	556.4	454.7	368.7	294.0	235.4	210.9	193.1	184.4
12.5°	773.6	732.9	618.7	487.1	353.4	244.2	166.1	123.3	108.4	100.1	97.2
15°	786.0	734.1	587.6	419.4	257.0	147.8	97.6	83.5	82.2	81.8	81.4
17.5°	797.7	735.4	554.8	348.8	171.9	94.3	78.5	77.2	77.2	77.2	77.2
20°	809.7	735.8	518.6	274.9	112.9	77.2	73.9	73.1	73.9	73.9	73.9
22.5°	823.8	738.7	483.7	203.0	83.5	72.7	70.6	70.2	70.6	70.6	70.2
25°	841.3	744.9	446.0	145.3	75.6	69.8	67.7	67.3	67.7	67.3	67.3
27.5°	864.5	753.2	401.9	104.2	72.3	66.9	64.8	64.8	64.8	64.4	64.4
30°	894.4	763.2	343.0	82.2	68.9	63.9	62.3	62.3	61.9	61.5	61.5
32.5°	937.2	779.4	278.6	74.3	65.2	60.2	58.5	59.0	58.5	58.1	57.7
35°	997.8	804.7	215.1	70.2	61.5	56.5	54.8	54.8	54.8	54.0	54.0
37.5°	1083.8	843.3	161.1	66.0	57.7	52.7	50.7	50.7	50.2	49.4	49.8
40°	1190.1	891.9	116.7	62.3	54.0	48.6	46.9	46.1	45.3	44.4	44.4
42.5°	1318.0	939.3	87.6	58.5	50.2	45.3	43.2	42.4	40.7	39.9	39.4
45°	1461.2	989.5	72.7	54.0	46.1	41.5	39.9	38.2	36.1	34.9	34.5
47.5°	1582.0	1020.2	64.8	49.4	41.9	37.8	36.1	33.6	31.1	30.3	30.3
50°	1654.7	1007.4	58.1	44.8	37.8	34.0	32.0	28.7	27.0	26.2	25.7
52.5°	1695.4	969.2	52.7	41.1	34.0	29.9	27.0	24.1	23.3	22.4	22.4
55°	1723.2	913.9	46.9	37.4	30.7	26.2	22.8	20.8	19.9	19.5	19.1
57.5°	1749.8	846.7	41.5	34.0	27.4	23.3	19.5	18.7	17.0	16.6	16.6
60°	1757.7	754.1	36.5	30.3	24.5	20.3	17.0	15.8	14.1	13.7	13.7
62.5°	1657.2	600.0	32.4	25.7	21.6	17.4	14.9	13.3	11.6	11.6	11.6
65°	1384.8	407.3	27.8	22.4	19.1	14.9	12.9	10.8	10.0	10.0	10.0
67.5°	964.6	227.1	23.7	19.1	16.2	12.5	10.8	9.1	8.7	9.1	9.1
70°	434.8	90.1	19.9	15.8	13.3	10.4	9.1	7.9	8.7	8.7	8.7
72°	130.4	48.2	16.6	12.9	10.8	9.1	7.9	7.5	8.3	8.7	8.7
72.5°	96.7	43.2	15.8	12.5	10.8	8.7	7.5	7.5	8.3	8.7	8.7
75°	49.8	29.5	12.0	9.1	7.9	7.1	6.2	7.1	8.3	8.3	8.3
77.5°	39.0	24.1	10.0	7.1	6.6	6.2	5.8	6.6	7.5	7.5	7.5
80°	36.5	15.8	7.9	6.6	5.8	5.4	5.4	5.8	6.6	7.1	7.1
82.5°	37.0	12.9	7.1	6.2	5.4	5.0	5.0	5.4	6.2	6.6	6.6
85°	23.7	8.7	6.2	5.4	5.0	4.6	4.6	5.0	5.8	6.2	6.2
87.5°	7.9	6.6	5.4	5.0	4.2	4.2	4.2	4.2	5.0	5.4	5.8
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)