

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: P197143

Luminaire Tested: **NVN-AF-01-LED-U-SL4-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-01-LED-U-SL4-8030-800  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3843 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

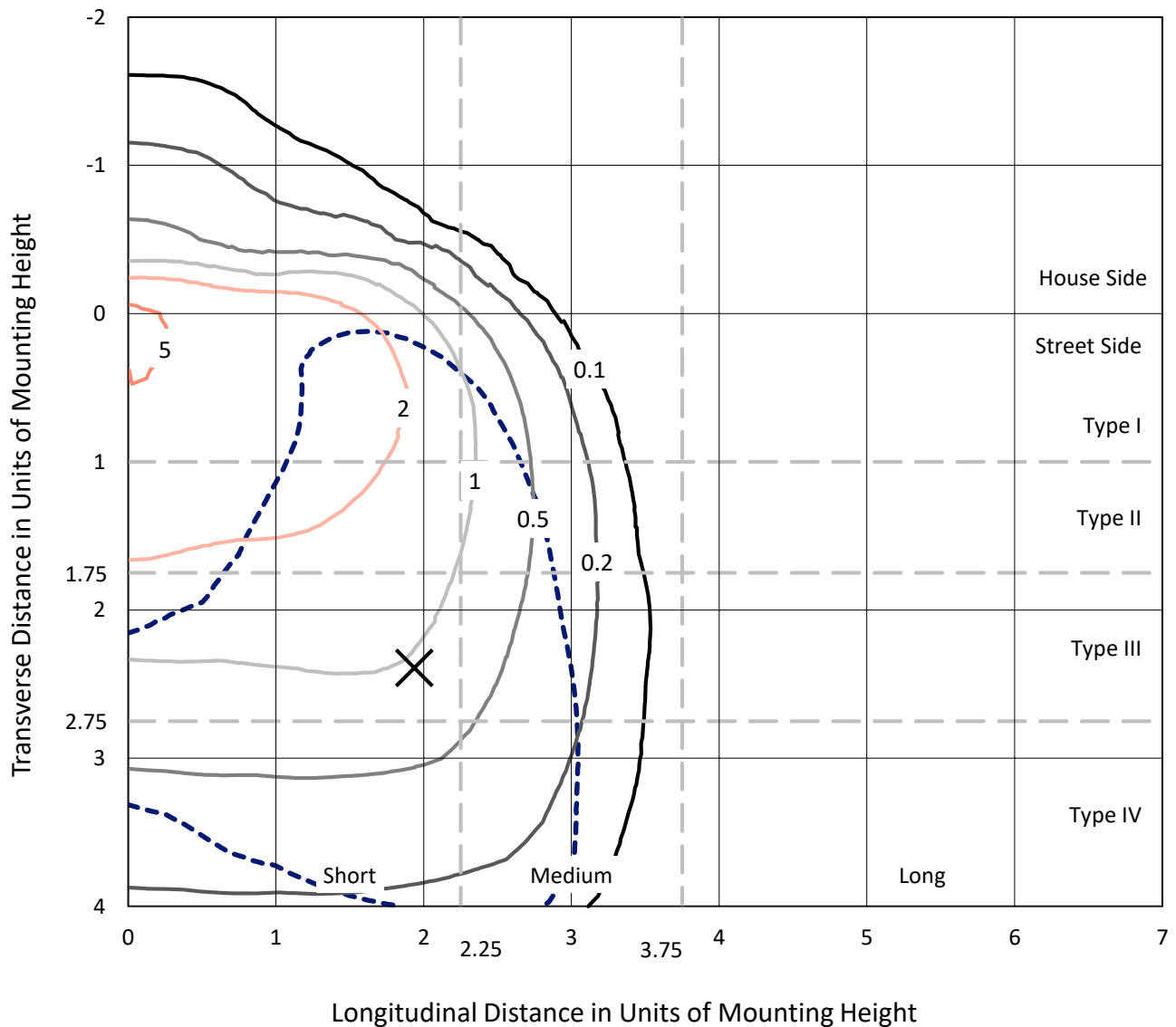
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

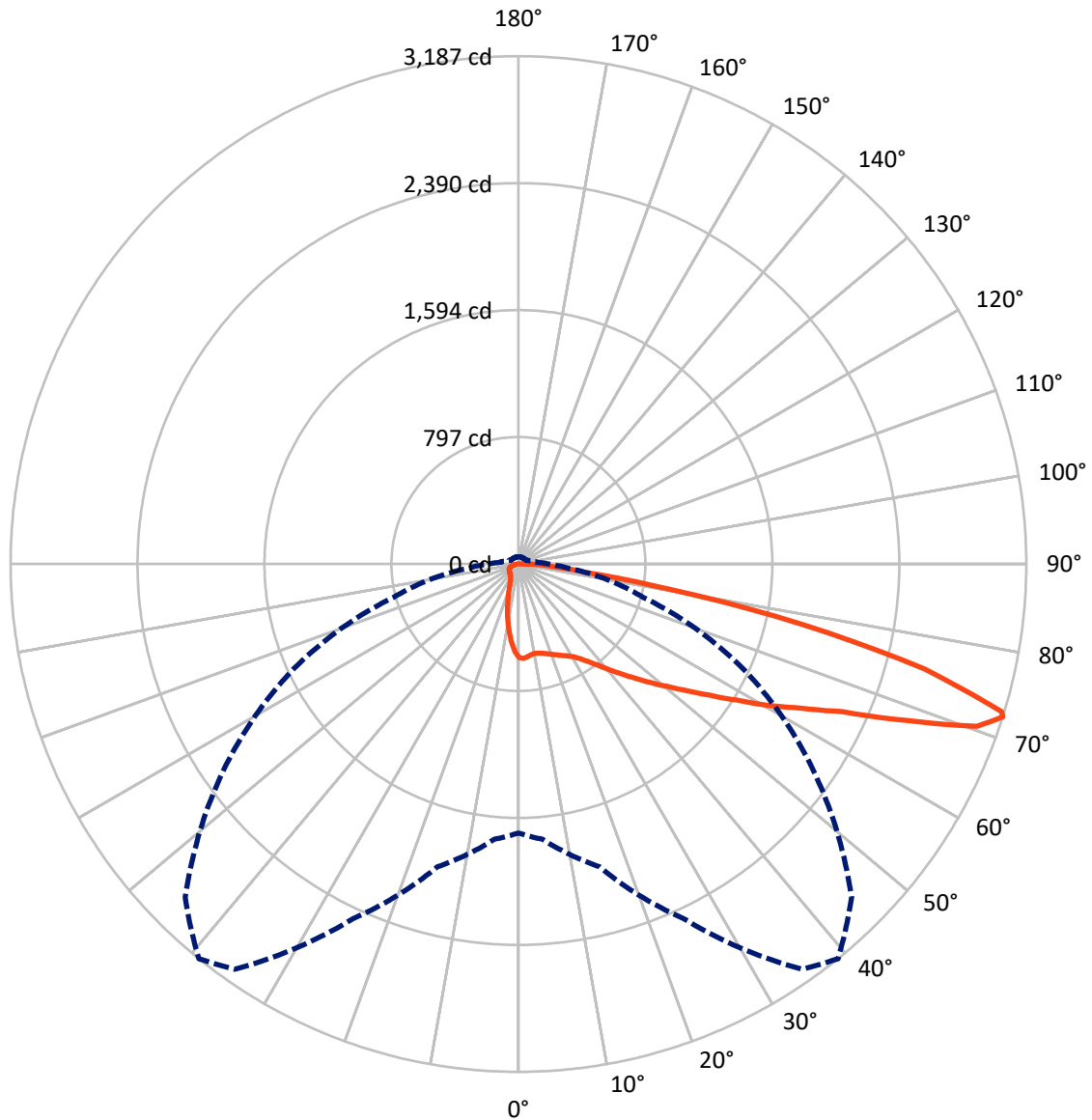
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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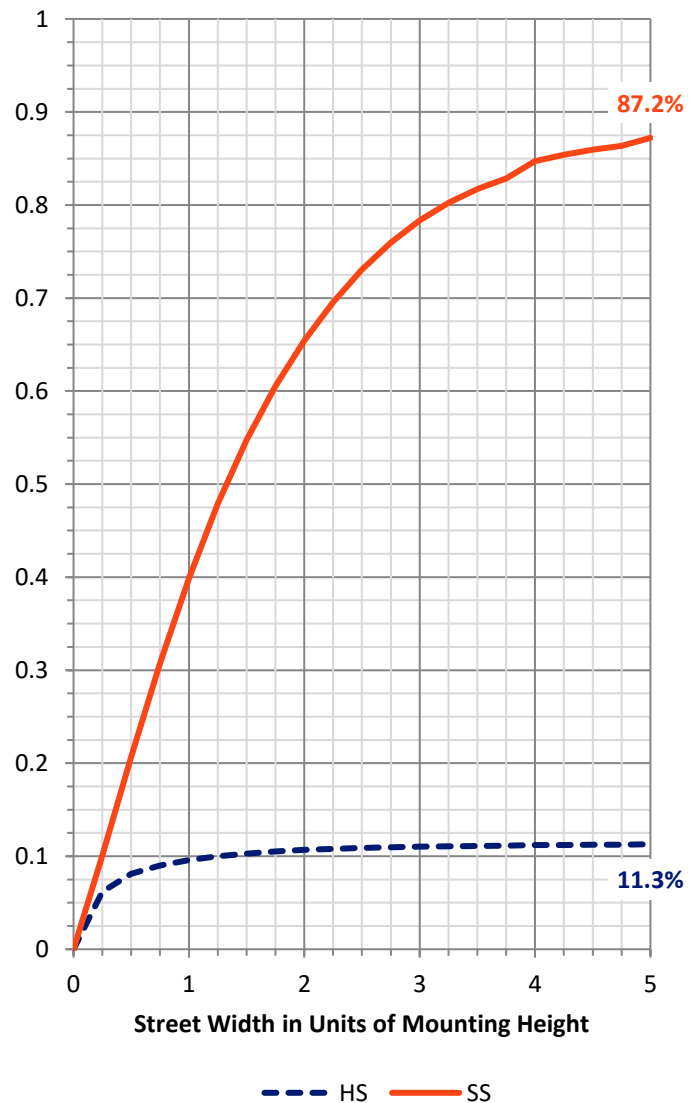
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	440.7	0.0	440.7
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	3402.3	0.0	3402.3
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	3843.0	0.0	3843.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	1.3
10°-20°	126.7	3.3
20°-30°	197.5	5.1
30°-40°	304.1	7.9
40°-50°	495.7	12.9
50°-60°	770.3	20.0
60°-70°	1031.0	26.8
70°-80°	741.5	19.3
80°-90°	125.7	3.3
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°	3843.0	100.0
0°-180°	3843.0	100.0



REPORT NUMBER: P197143

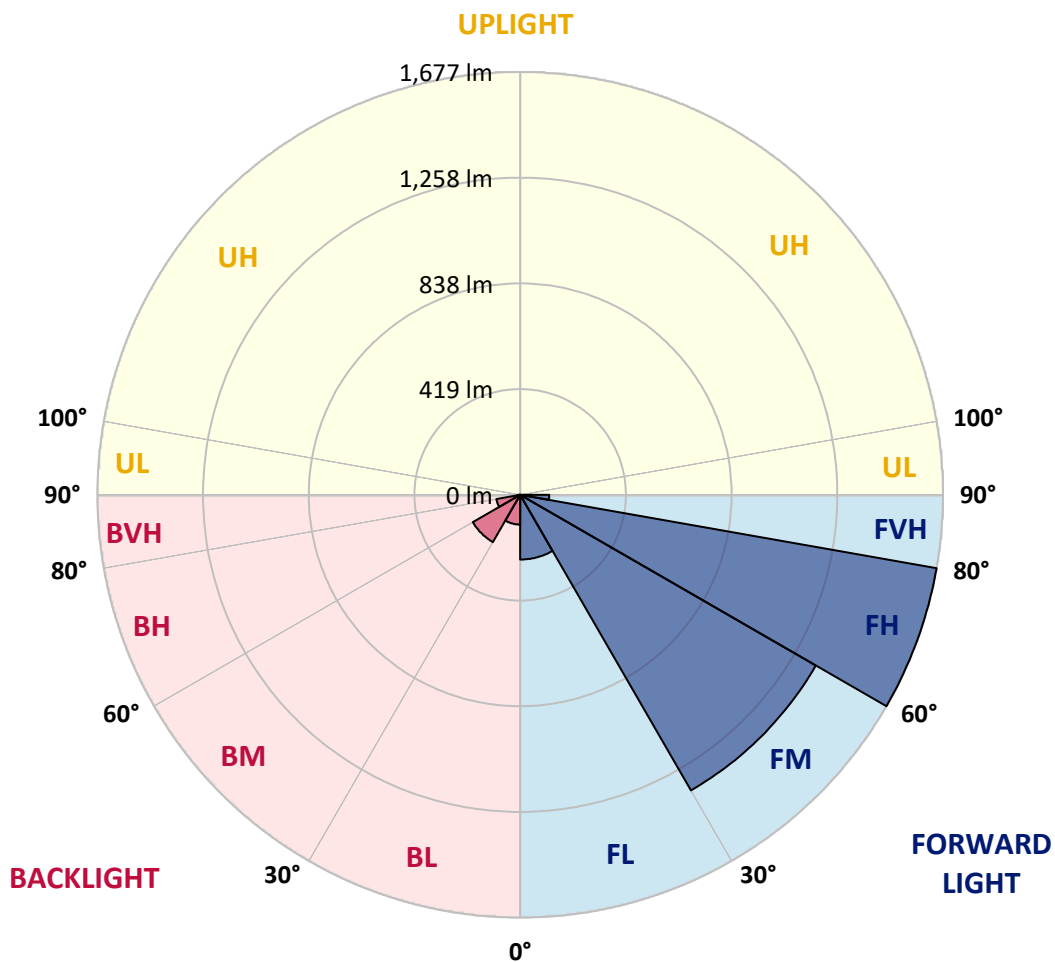
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	256.7	6.7			
FM	(30°-60°)	1353.6	35.2			
FH	(60°-80°)	1676.8	43.6			G1/1800
FVH	(80°-90°)	115.3	3.0			G2/225
BL	(0°-30°)	118.0	3.1	B1/500		
BM	(30°-60°)	216.6	5.6	B0/220		
BH	(60°-80°)	95.7	2.5	B0/110		G0/110
BVH	(80°-90°)	10.4	0.3			G1/100
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°	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9
2.5°	599.5	599.8	599.0	596.7	594.6	593.6	591.8	588.7	584.6	581.7	579.4
5°	593.9	594.6	594.1	590.2	586.6	584.6	581.7	577.3	571.9	569.6	564.2
7.5°	589.5	590.0	588.4	584.1	577.1	574.5	569.4	563.7	558.8	555.4	549.0
10°	586.4	586.9	585.6	581.2	573.5	570.4	564.2	558.0	551.6	547.4	540.2
12.5°	582.0	583.0	583.0	581.0	575.8	573.7	567.5	560.8	554.9	550.5	541.5
15°	581.2	582.5	584.8	584.6	583.0	581.5	576.6	569.9	564.7	559.5	548.5
17.5°	587.7	590.5	595.2	596.7	595.7	592.3	586.6	580.4	574.8	569.9	556.2
20°	603.9	605.5	612.4	615.5	610.4	605.5	598.0	590.0	584.8	581.0	563.4
22.5°	628.4	630.5	636.2	636.4	625.6	619.7	610.1	600.3	595.4	593.9	573.2
25°	667.6	667.1	668.7	662.2	642.6	635.7	624.0	612.7	609.3	612.4	587.7
27.5°	714.6	713.3	708.4	691.6	662.0	652.9	639.0	628.9	628.9	636.2	607.3
30°	768.8	767.5	751.5	723.4	684.9	674.6	659.9	649.3	654.7	668.7	633.8
32.5°	826.0	821.4	799.0	761.3	717.7	706.3	692.1	681.3	691.6	715.4	672.0
35°	880.0	877.4	849.8	805.1	760.0	750.5	740.6	727.2	743.7	780.6	725.9
37.5°	935.7	933.6	899.8	852.4	811.6	805.1	796.9	787.6	814.2	862.7	799.0
40°	997.9	993.7	951.2	903.7	871.7	868.6	864.2	861.6	904.5	976.7	891.3
42.5°	1068.3	1060.3	1005.3	960.2	937.2	939.8	937.5	947.8	1013.3	1108.3	1001.2
45°	1148.8	1132.8	1059.2	1020.3	1009.7	1020.0	1024.9	1051.3	1142.1	1260.2	1124.0
47.5°	1224.1	1203.5	1118.3	1085.6	1091.5	1109.3	1123.2	1169.7	1283.2	1410.4	1249.4
50°	1293.5	1270.3	1181.5	1153.2	1182.0	1207.3	1236.2	1301.7	1433.3	1564.9	1364.4
52.5°	1344.8	1328.1	1244.7	1226.9	1286.0	1319.5	1365.7	1448.5	1585.0	1712.2	1467.1
55°	1384.6	1375.5	1306.4	1311.5	1403.6	1451.6	1507.6	1602.8	1745.5	1844.3	1549.7
57.5°	1430.5	1423.8	1376.8	1413.7	1549.7	1610.0	1676.1	1781.8	1898.2	1960.6	1614.4
60°	1479.0	1479.0	1455.2	1536.8	1732.3	1801.4	1867.2	1949.5	2050.4	2065.4	1640.7
62.5°	1515.6	1525.2	1533.7	1667.8	1905.7	1991.6	2063.8	2142.7	2208.0	2116.9	1578.8
65°	1568.8	1589.1	1637.1	1819.2	2120.3	2232.8	2330.3	2396.6	2335.7	2075.9	1376.8
67.5°	1660.1	1690.3	1792.4	2044.7	2449.0	2617.4	2712.1	2597.6	2310.7	1817.7	1054.6
70°	1742.4	1784.9	1959.6	2330.8	2876.2	3051.1	3007.5	2550.9	2012.5	1332.4	648.8
72°	1687.7	1734.1	1967.3	2455.4	3104.5	3187.0	2957.2	2260.6	1555.1	813.1	319.9
72.5°	1651.8	1700.1	1942.3	2452.3	3110.7	3169.7	2887.3	2145.3	1411.6	711.5	258.7
75°	1379.9	1421.2	1670.1	2173.4	2741.3	2632.9	2253.2	1388.4	648.8	229.9	133.1
77.5°	901.1	932.6	1151.6	1505.8	1920.1	1815.9	1371.4	650.1	243.3	139.6	100.1
80°	452.7	475.2	616.3	791.7	1036.3	953.5	633.1	314.5	162.8	100.9	78.7
82.5°	315.0	335.6	424.4	404.2	433.1	419.2	297.7	262.4	121.8	63.7	41.3
85°	264.2	285.6	351.1	288.2	235.8	214.9	213.3	247.9	80.5	31.5	34.8
87.5°	230.4	262.9	289.7	210.5	161.8	142.7	157.1	227.3	25.5	17.3	10.6
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°	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9	586.9
2.5°	575.5	574.8	570.9	565.0	560.6	557.7	552.3	552.1	552.6	547.9	549.7
5°	559.3	556.2	546.1	532.5	521.4	510.8	499.2	495.3	492.0	485.0	485.8
7.5°	542.3	536.8	519.3	496.9	475.4	455.8	436.5	427.0	419.7	410.7	410.7
10°	532.2	523.7	496.9	464.1	430.0	401.4	372.5	355.2	342.6	331.0	330.2
12.5°	531.7	518.8	481.4	436.2	389.5	349.3	309.8	283.3	264.4	250.8	249.5
15°	535.8	517.8	468.5	410.2	351.4	299.0	250.2	216.4	192.4	177.2	175.7
17.5°	539.4	516.5	454.6	382.8	314.2	250.5	196.3	161.2	138.5	126.2	124.9
20°	542.8	513.6	436.8	353.9	273.2	205.1	153.5	125.1	110.2	103.2	102.4
22.5°	547.7	511.1	418.2	321.4	233.0	166.9	126.7	106.3	98.3	94.9	94.4
25°	555.7	511.3	400.1	288.2	196.1	139.0	109.6	97.0	92.6	90.3	90.3
27.5°	567.3	514.4	382.3	254.4	164.8	120.0	99.6	92.1	89.3	87.5	86.9
30°	584.3	520.1	363.5	222.4	140.1	106.8	93.6	89.0	86.7	85.1	84.9
32.5°	609.1	530.1	343.6	193.2	121.2	97.5	89.3	86.4	84.6	83.3	83.1
35°	646.0	547.9	324.3	168.5	107.8	90.8	85.6	83.3	82.3	81.8	81.5
37.5°	700.1	576.6	306.0	149.1	99.1	86.4	82.0	80.7	80.2	80.2	80.2
40°	768.3	614.2	289.4	135.4	94.2	83.1	79.5	78.4	78.4	78.7	78.7
42.5°	851.1	661.5	275.3	126.2	91.3	80.7	77.7	77.1	76.9	76.9	77.1
45°	947.3	717.2	266.5	118.9	89.3	79.5	76.4	76.1	75.1	74.6	74.6
47.5°	1044.0	776.8	266.0	114.8	86.7	77.9	75.1	75.1	73.0	72.0	72.2
50°	1134.3	830.2	271.6	113.8	85.1	75.6	73.8	74.0	71.2	69.9	69.7
52.5°	1207.1	870.9	278.6	115.1	85.1	73.5	71.5	72.7	69.7	68.1	67.8
55°	1263.3	899.3	281.2	117.9	86.2	71.7	69.4	71.5	69.1	67.1	67.1
57.5°	1303.6	908.3	270.1	119.2	87.7	71.5	67.3	71.2	69.9	67.3	67.3
60°	1288.8	856.0	228.8	114.3	87.5	70.9	65.8	71.7	72.5	69.7	69.7
62.5°	1174.0	716.1	183.7	103.2	83.1	69.1	64.0	71.2	74.3	73.3	72.7
65°	955.8	525.2	142.4	90.0	75.6	65.3	60.1	66.6	70.2	71.2	71.5
67.5°	673.6	332.5	110.7	76.6	66.3	59.6	55.7	58.8	60.1	60.6	61.7
70°	368.4	180.1	88.0	64.5	56.8	53.9	51.1	51.3	50.8	50.3	50.8
72°	185.0	117.6	74.3	56.0	50.3	48.5	47.2	46.4	46.4	45.7	45.9
72.5°	159.2	109.4	71.7	53.9	48.8	47.2	46.2	45.4	45.1	44.6	44.9
75°	106.0	86.7	59.9	45.1	41.5	40.5	41.0	40.2	40.5	40.0	40.2
77.5°	85.6	74.6	50.8	38.2	35.6	34.1	35.1	35.3	35.9	35.3	35.1
80°	71.7	63.5	42.6	31.5	29.7	28.4	28.9	30.7	31.0	29.4	29.2
82.5°	46.4	51.1	33.5	24.5	22.7	22.2	23.5	25.3	25.8	23.7	23.2
85°	39.0	41.0	24.2	16.8	15.0	14.4	17.0	18.8	20.1	18.1	17.5
87.5°	10.8	20.1	11.9	8.0	6.7	6.7	8.3	9.8	11.6	11.9	11.9
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)