

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: P198492

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-5NQ-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4446 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 44
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

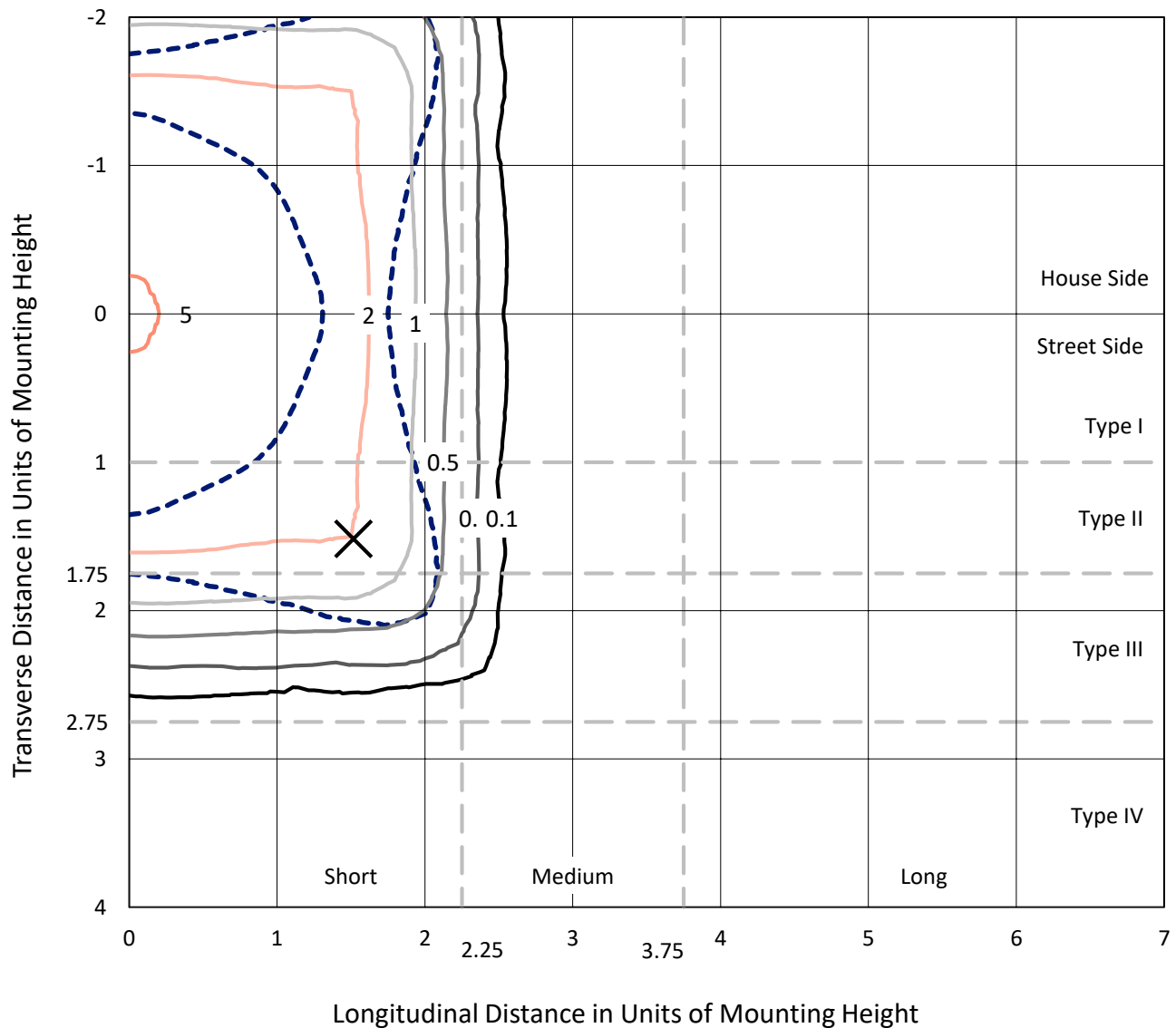


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

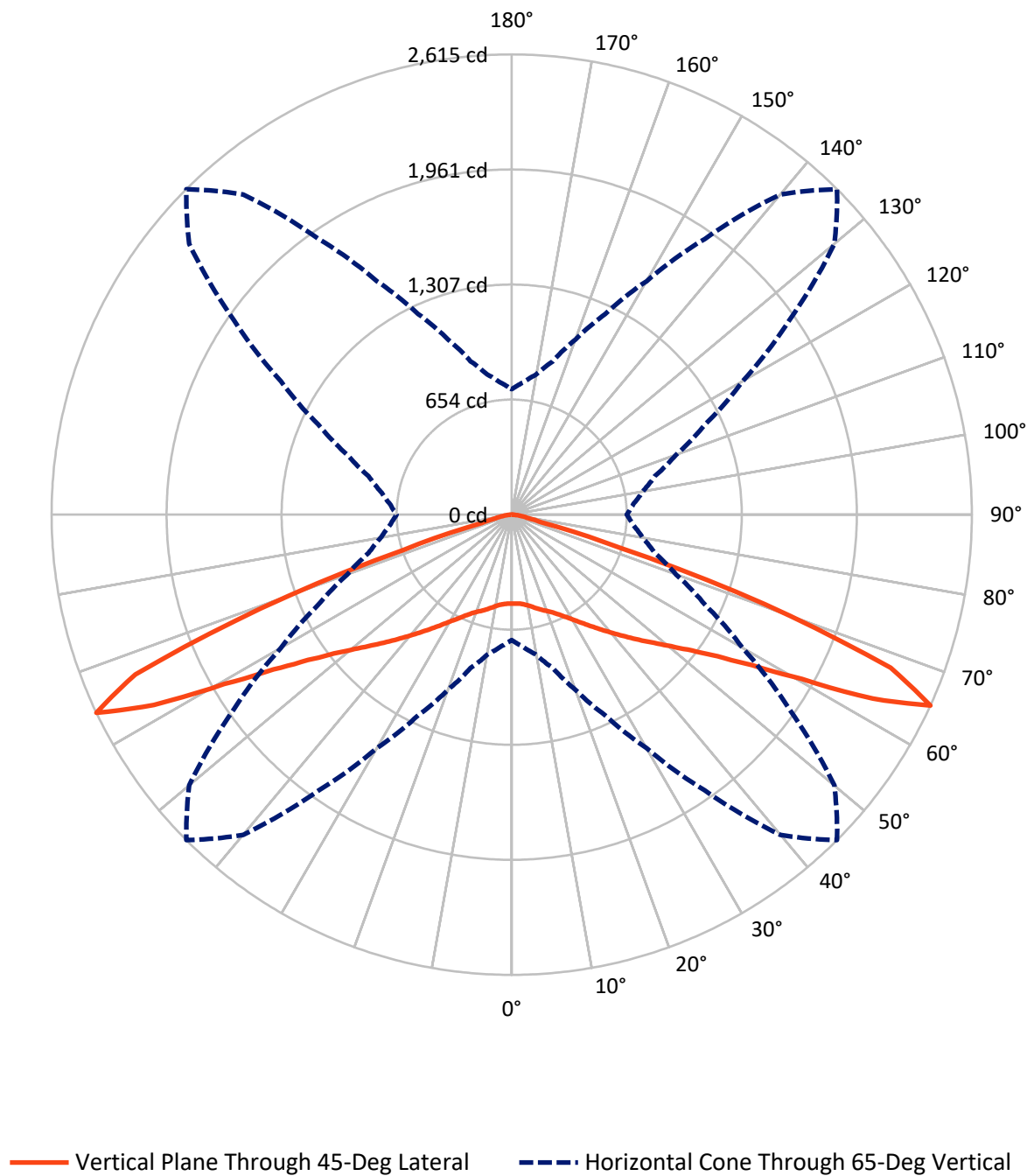


Based on 10 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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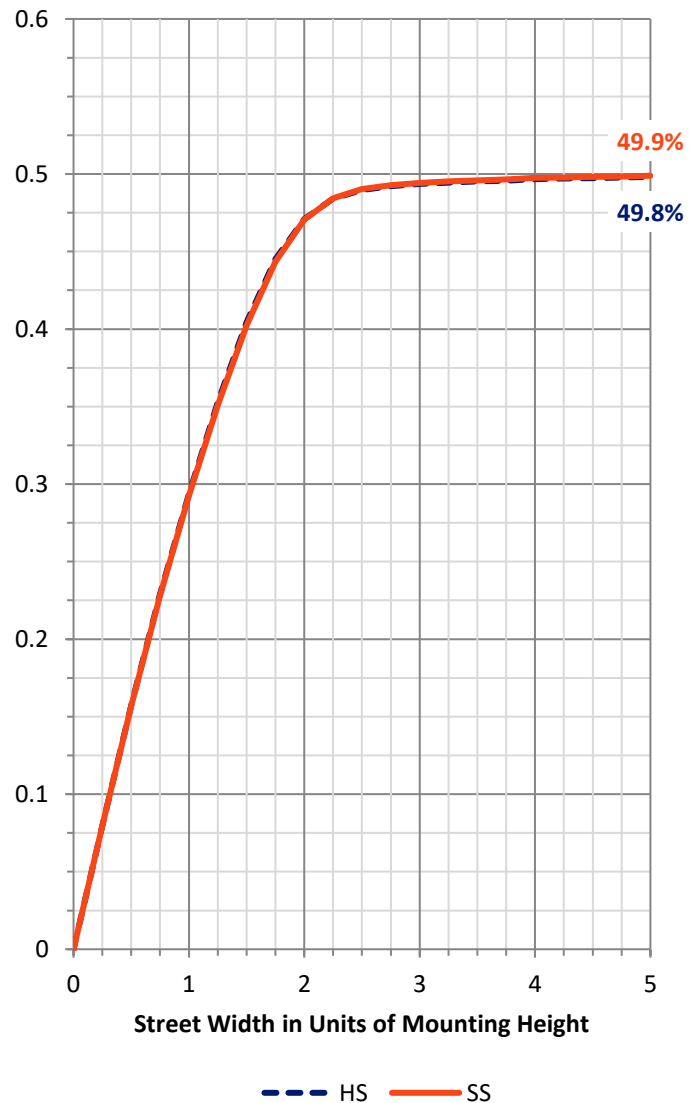
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.0	0.0	2223.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2223.0	0.0	2223.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4446.0	0.0	4446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	1.1
10°-20°	157.8	3.6
20°-30°	294.5	6.6
30°-40°	496.5	11.2
40°-50°	806.4	18.1
50°-60°	1263.6	28.4
60°-70°	1192.7	26.8
70°-80°	160.7	3.6
80°-90°	24.5	0.6
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°	4446.0	100.0
0°-180°	4446.0	100.0

Coefficient of Utilization



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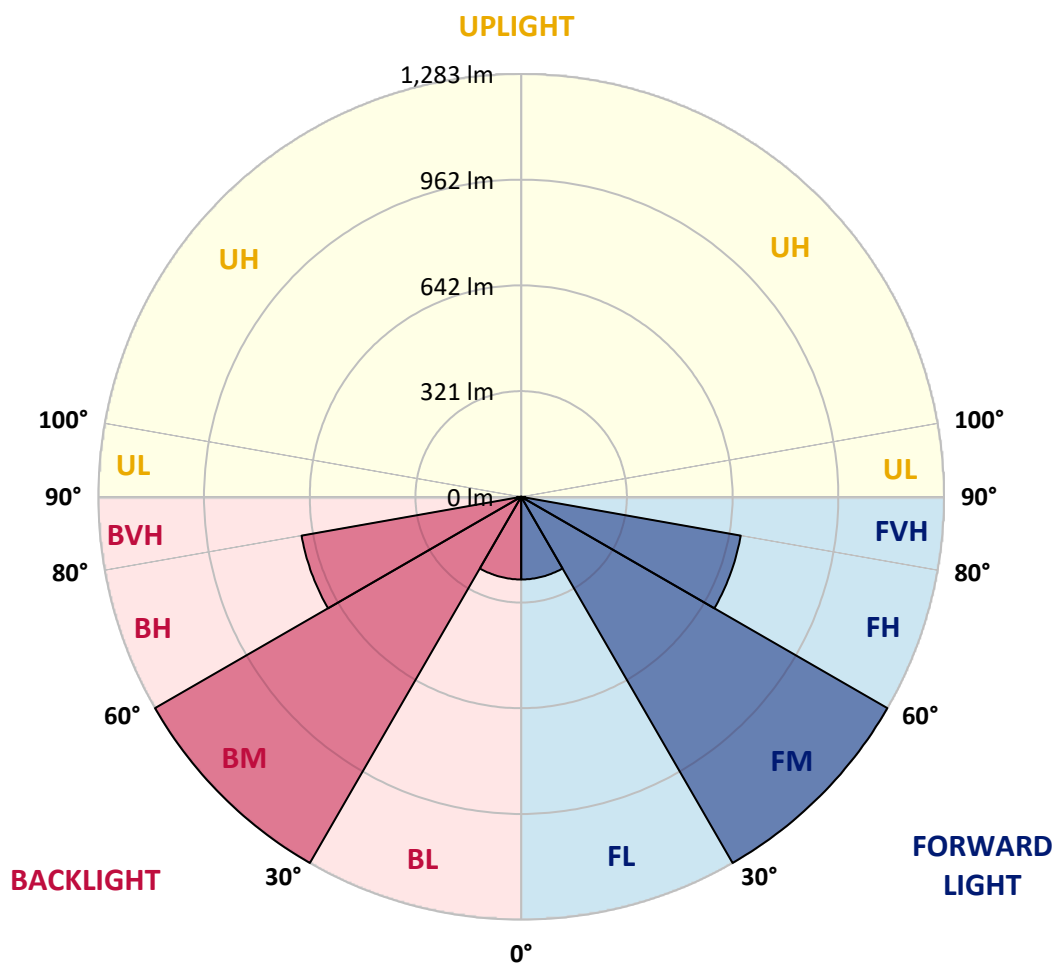
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.8	5.6			
FM	(30°-60°)	1283.2	28.9			
FH	(60°-80°)	676.7	15.2			G1/1800
FVH	(80°-90°)	12.2	0.3			G1/100
BL	(0°-30°)	250.8	5.6	B1/500		
BM	(30°-60°)	1283.2	28.9	B2/2500		
BH	(60°-80°)	676.7	15.2	B2/1000		G1/1800
BVH	(80°-90°)	12.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7
2.5°	509.9	509.9	510.7	510.4	509.3	508.5	507.7	506.6	506.0	505.5	505.2
5°	512.7	512.7	513.5	513.2	512.4	511.3	510.7	509.9	509.1	508.5	508.8
7.5°	519.6	519.9	520.1	519.9	519.0	518.2	517.1	516.8	515.7	514.9	515.4
10°	530.1	530.1	530.4	530.7	530.1	528.2	528.2	527.6	526.5	525.4	525.7
12.5°	541.7	541.7	542.0	542.0	542.0	540.9	541.2	540.9	539.5	539.0	539.5
15°	553.1	553.4	553.4	553.9	553.9	554.2	555.3	555.3	554.7	554.5	554.5
17.5°	566.4	566.9	567.2	568.0	568.3	568.9	570.0	570.3	570.5	569.7	570.0
20°	584.1	584.4	585.2	585.5	586.6	586.6	587.2	586.9	586.3	585.2	585.2
22.5°	604.0	604.6	606.3	606.3	607.6	606.8	607.1	606.3	604.9	604.3	603.8
25°	630.1	630.9	632.3	631.7	632.3	630.9	630.9	630.9	630.1	629.3	629.0
27.5°	663.0	661.7	663.0	661.9	661.7	660.5	660.8	660.3	659.4	659.2	658.1
30°	697.4	695.7	696.6	696.8	696.3	696.0	694.9	694.1	692.7	693.0	692.1
32.5°	736.7	735.0	735.9	736.2	735.6	736.2	735.9	733.9	732.3	733.4	733.4
35°	783.5	782.4	784.6	785.5	783.8	783.0	781.9	779.6	777.1	778.8	779.1
37.5°	839.7	838.4	840.0	842.2	839.2	837.5	833.1	829.8	828.1	828.9	830.0
40°	898.2	898.5	903.2	903.7	900.4	898.5	894.0	889.0	884.3	884.3	885.7
42.5°	959.7	960.5	966.0	968.0	966.9	963.3	957.2	951.1	945.0	946.1	947.8
45°	1029.2	1028.1	1033.9	1038.6	1037.8	1036.7	1030.8	1019.8	1014.2	1013.9	1016.7
47.5°	1102.3	1104.5	1110.6	1118.6	1118.4	1115.6	1108.1	1097.9	1087.6	1088.4	1091.8
50°	1187.6	1190.6	1200.9	1208.9	1210.0	1209.2	1200.3	1188.4	1174.0	1174.9	1179.3
52.5°	1264.0	1268.5	1280.4	1297.0	1307.2	1312.0	1306.1	1295.1	1280.4	1281.2	1285.9
55°	1333.3	1340.2	1357.9	1380.6	1401.1	1420.2	1428.8	1428.6	1417.8	1420.2	1426.3
57.5°	1376.8	1386.5	1413.3	1449.9	1490.6	1529.1	1562.3	1593.6	1600.5	1613.6	1613.6
60°	1318.3	1341.0	1376.8	1439.4	1519.4	1605.8	1699.4	1790.5	1849.3	1895.5	1870.6
62.5°	1100.9	1134.4	1184.6	1267.1	1391.7	1546.0	1734.0	1945.9	2166.9	2302.1	2202.9
65°	712.3	754.4	809.0	901.8	1058.8	1257.4	1531.3	1912.1	2374.6	2614.5	2392.9
67.5°	282.2	310.7	344.0	409.9	546.2	741.1	1048.6	1518.3	2096.9	2323.1	2074.7
70°	134.9	139.6	146.0	160.1	194.1	262.0	421.3	748.1	1285.9	1524.4	1255.2
72.5°	97.5	98.3	101.4	106.1	116.0	129.9	157.9	228.8	443.4	644.8	444.0
75°	73.9	75.1	76.7	79.2	84.5	91.1	101.6	121.9	151.8	175.0	151.5
77.5°	56.2	57.3	58.7	61.2	64.0	68.7	72.6	80.6	93.3	98.3	97.8
80°	41.0	42.9	45.1	47.4	49.3	51.5	51.8	55.7	62.9	67.6	66.2
82.5°	26.0	27.7	33.5	36.0	36.3	36.8	36.6	36.8	40.7	44.0	42.9
85°	16.6	17.7	20.8	23.5	23.0	24.1	24.1	23.5	21.9	18.8	22.4
87.5°	8.3	8.6	10.0	12.5	11.9	10.5	10.2	10.2	7.5	6.4	6.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	505.7	505.7	505.7	505.7	505.7	505.7	505.7	505.7
2.5°	504.3	504.9	504.1	504.1	503.8	504.3	503.5	503.5
5°	508.2	509.1	508.8	508.8	509.3	509.9	509.6	509.3
7.5°	515.1	515.7	516.3	516.5	517.1	516.8	517.4	517.1
10°	525.7	525.1	525.9	525.1	525.4	524.8	525.1	525.1
12.5°	539.0	538.1	537.6	537.0	537.0	535.9	535.9	536.2
15°	554.2	552.8	551.7	551.1	550.6	550.6	549.8	550.3
17.5°	569.2	567.8	565.8	565.8	565.0	564.4	563.9	565.3
20°	584.9	583.6	582.4	582.2	580.5	580.0	580.2	581.9
22.5°	603.2	602.4	602.4	601.8	600.7	599.9	599.9	601.8
25°	627.9	626.2	626.5	626.8	626.2	626.2	625.7	627.0
27.5°	658.1	656.7	657.5	658.1	657.5	658.3	657.5	658.6
30°	693.5	692.7	693.5	694.3	693.0	693.0	692.4	693.2
32.5°	735.9	734.8	735.3	735.3	733.4	731.7	729.5	731.2
35°	782.4	781.0	782.1	783.0	780.7	779.1	775.8	777.1
37.5°	833.6	834.2	835.6	839.2	838.6	835.9	833.4	834.5
40°	891.0	893.7	899.8	902.3	901.8	899.0	895.7	896.2
42.5°	955.8	959.4	965.8	969.9	968.0	964.1	959.9	961.6
45°	1026.4	1031.9	1040.3	1044.4	1041.9	1037.8	1031.9	1035.0
47.5°	1101.2	1112.3	1123.3	1128.9	1128.1	1122.2	1114.8	1115.6
50°	1190.6	1205.3	1219.5	1225.0	1220.8	1212.0	1201.4	1201.2
52.5°	1302.0	1317.8	1329.4	1328.0	1317.8	1303.9	1292.0	1291.5
55°	1441.0	1446.3	1444.6	1432.7	1414.7	1393.1	1377.9	1375.4
57.5°	1609.1	1591.4	1565.4	1529.4	1488.9	1447.9	1420.2	1410.0
60°	1814.6	1734.6	1641.5	1543.5	1454.0	1387.0	1344.6	1318.9
62.5°	1984.4	1752.6	1544.6	1374.3	1235.0	1152.1	1094.3	1058.5
65°	1926.3	1514.1	1212.8	993.2	841.1	755.5	694.3	653.6
67.5°	1488.1	1011.7	704.0	488.0	370.0	313.2	273.6	247.9
70°	750.3	388.0	235.1	165.9	141.8	131.8	125.2	121.3
72.5°	220.2	147.1	122.1	108.0	99.4	93.3	89.5	87.5
75°	121.9	99.4	87.8	79.8	74.2	70.1	67.6	65.9
77.5°	83.9	72.3	66.5	61.2	56.8	53.7	51.8	50.1
80°	58.7	52.9	50.4	47.6	44.3	41.8	39.1	37.9
82.5°	39.1	36.6	36.0	33.8	31.9	29.1	24.1	22.4
85°	23.0	22.7	22.7	21.9	20.5	18.0	14.4	14.4
87.5°	8.0	8.3	8.6	9.1	8.9	7.5	6.1	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)