

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: P270780

Luminaire Tested: **NVN-AF-01-LED-U-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)
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-T2-7027-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5699.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

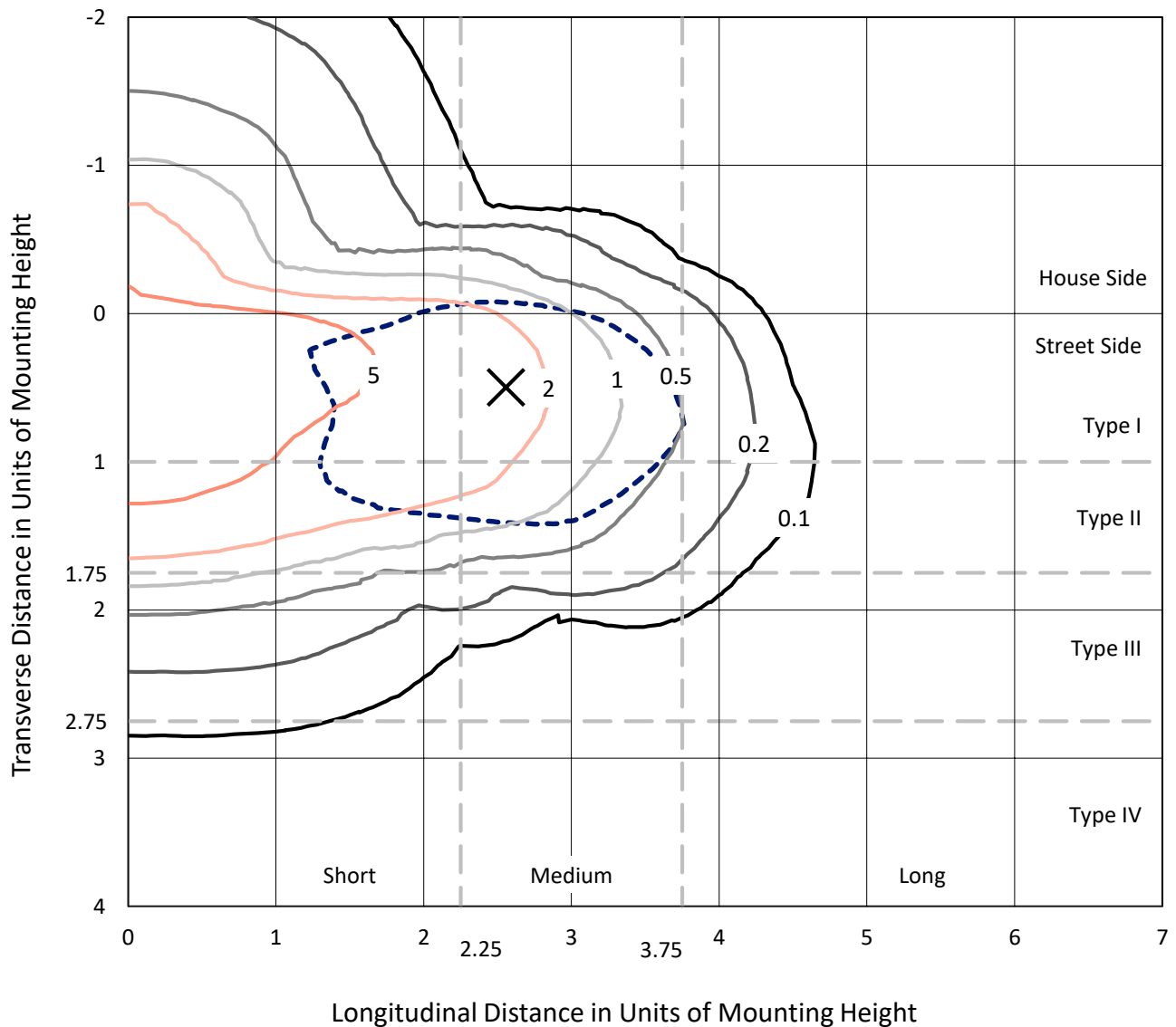
Input Watts (W): 67
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

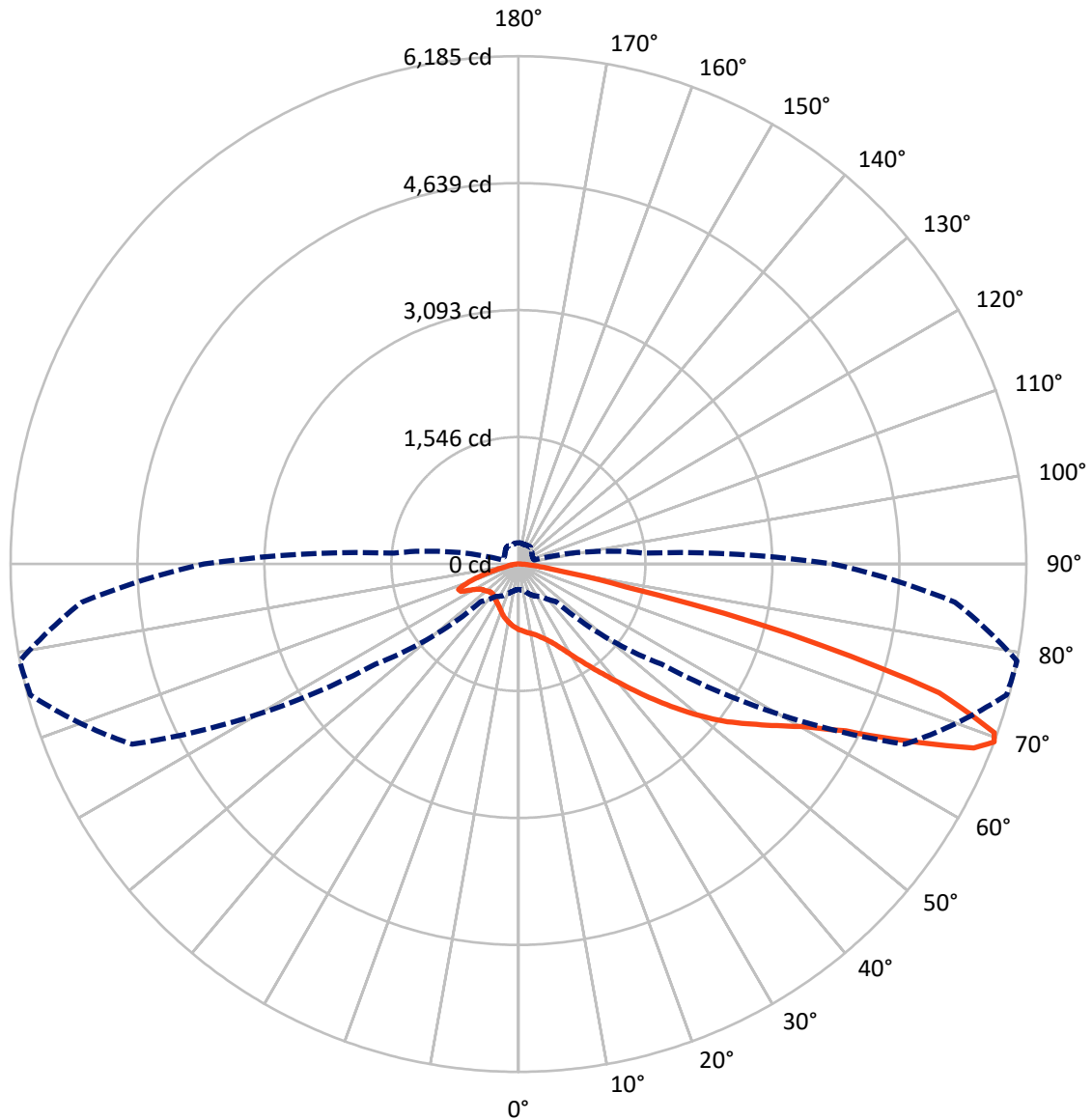
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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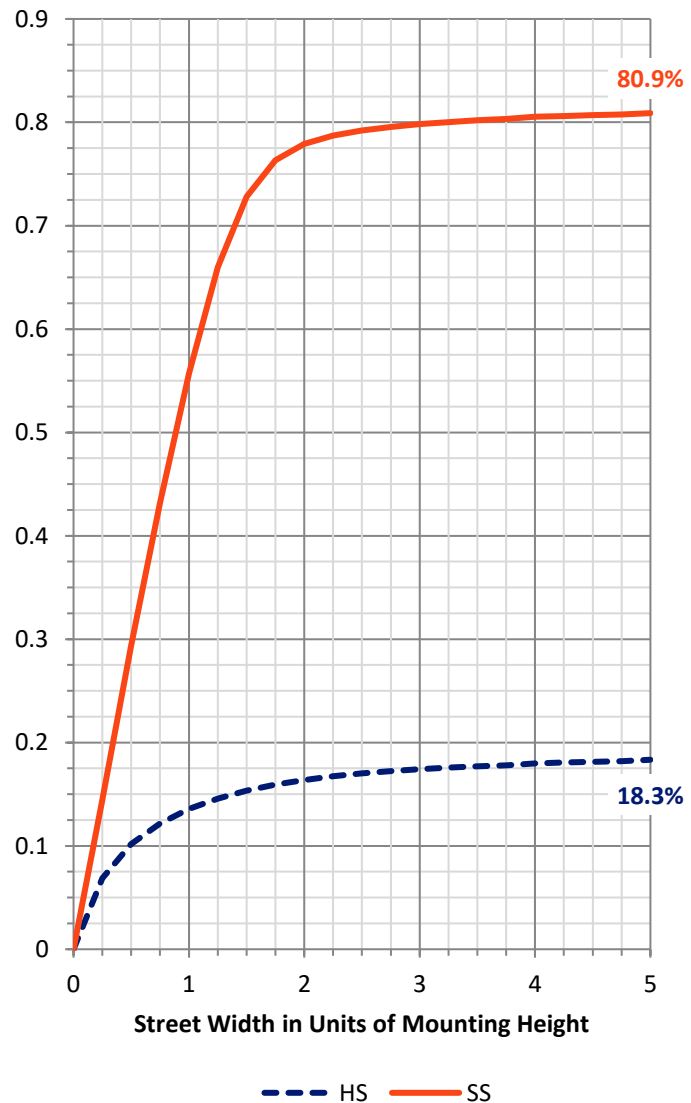
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.2	0.0	1072.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4627.3	0.0	4627.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	5699.4	0.0	5699.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	1.3
10°-20°	212.6	3.7
20°-30°	351.3	6.2
30°-40°	568.8	10.0
40°-50°	908.6	15.9
50°-60°	1301.3	22.8
60°-70°	1449.8	25.4
70°-80°	725.3	12.7
80°-90°	107.6	1.9
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°	5699.4	100.0
0°-180°	5699.4	100.0

Coefficient of Utilization



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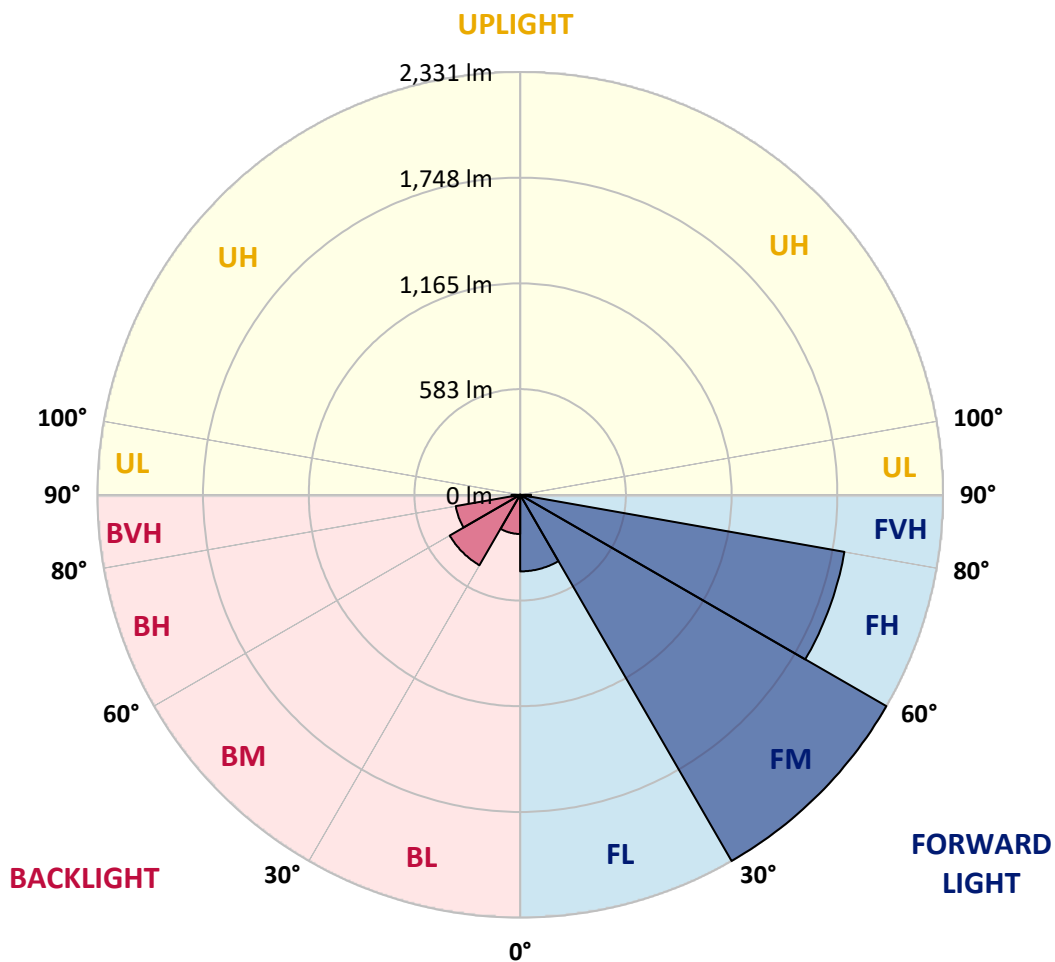
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.0	7.4			
FM (30°-60°)	2330.5	40.9			
FH (60°-80°)	1814.6	31.8			G2/5000
FVH (80°-90°)	60.1	1.1			G1/100
BL (0°-30°)	216.0	3.8	B1/500		
BM (30°-60°)	448.2	7.9	B1/1000		
BH (60°-80°)	360.5	6.3	B1/500		G1/500
BVH (80°-90°)	47.5	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9
2.5°	878.2	876.2	875.8	870.3	867.4	860.9	846.1	830.8	816.6	809.2	801.3
5°	951.6	947.8	945.9	936.7	928.5	914.2	890.8	866.5	841.3	828.1	812.4
7.5°	996.0	996.3	996.3	988.9	980.7	963.5	933.7	900.6	862.8	845.7	821.1
10°	999.6	1000.1	1005.7	1007.4	1009.3	1000.4	972.9	931.1	882.6	860.2	828.1
12.5°	962.8	965.4	974.8	988.1	1007.1	1016.8	1004.9	963.9	907.9	880.7	841.6
15°	913.1	915.8	927.7	948.3	978.9	1011.2	1028.0	1001.5	941.2	909.1	861.4
17.5°	889.0	891.8	900.1	916.5	946.4	990.0	1040.2	1041.9	980.3	943.4	884.8
20°	877.4	879.6	890.0	903.4	926.2	968.0	1041.5	1084.3	1026.9	984.1	913.5
22.5°	903.9	904.7	909.9	917.3	932.6	964.6	1040.6	1128.4	1085.1	1035.0	950.4
25°	981.4	976.5	972.9	963.5	967.3	990.0	1052.6	1175.3	1159.6	1102.2	999.6
27.5°	1073.1	1072.3	1062.7	1041.0	1027.3	1041.9	1086.6	1227.9	1251.0	1187.6	1064.2
30°	1175.3	1175.7	1165.6	1139.1	1111.2	1112.6	1140.6	1288.7	1360.3	1290.5	1143.6
32.5°	1282.3	1289.0	1270.5	1244.0	1209.9	1199.1	1218.2	1362.1	1486.7	1412.0	1235.7
35°	1410.2	1411.3	1390.8	1352.0	1318.2	1300.9	1318.5	1453.8	1632.4	1554.8	1347.9
37.5°	1543.0	1543.6	1522.4	1472.9	1430.0	1418.9	1438.1	1565.3	1786.8	1717.5	1480.0
40°	1651.4	1659.3	1642.6	1595.8	1552.6	1546.0	1573.9	1698.9	1984.0	1909.8	1636.9
42.5°	1774.5	1783.5	1763.4	1714.9	1680.5	1678.4	1722.0	1851.0	2180.1	2132.4	1814.8
45°	1913.2	1925.8	1897.8	1843.5	1814.3	1863.7	1866.1	2019.5	2406.2	2381.5	2015.0
47.5°	2064.7	2075.1	2052.3	1993.8	1962.1	2033.3	2007.5	2201.8	2650.4	2648.6	2231.7
50°	2181.4	2192.9	2195.1	2169.3	2136.2	2145.2	2162.7	2393.4	2893.9	2922.9	2455.7
52.5°	2160.1	2171.3	2221.6	2289.2	2342.4	2319.2	2340.5	2597.1	3129.2	3190.7	2668.7
55°	1988.6	1994.4	2088.9	2249.1	2476.3	2586.6	2588.1	2818.5	3352.8	3439.0	2870.8
57.5°	1679.4	1680.2	1802.9	2039.2	2398.4	2760.0	2978.9	3096.6	3586.4	3713.5	3121.3
60°	1188.4	1191.3	1334.2	1643.3	2119.0	2739.1	3399.1	3594.5	3856.7	4021.8	3444.2
62.5°	705.4	712.1	820.0	1067.9	1573.9	2470.7	3647.5	4480.0	4254.8	4474.1	3961.0
65°	459.0	464.7	529.1	653.6	929.9	1797.6	3565.8	5337.6	5008.4	5185.6	4703.9
67.5°	353.6	358.0	408.6	483.9	570.6	971.6	2851.0	5517.4	5925.7	5980.8	5330.6
69°	310.6	314.3	351.6	424.0	480.2	643.1	2124.6	5191.1	6155.0	6185.2	5338.4
70°	287.8	290.8	325.8	388.5	441.1	513.4	1626.1	4812.3	6071.1	6148.3	5184.5
72.5°	237.2	239.8	264.7	312.8	360.6	365.8	720.4	3514.0	5112.2	5359.0	4387.2
75°	197.9	199.6	216.0	250.9	291.9	291.2	368.0	1990.5	3119.5	3413.6	2708.8
77.5°	165.2	166.2	177.1	198.7	230.4	229.2	259.2	859.0	1377.5	1329.0	932.6
80°	145.7	146.6	152.2	157.7	177.9	176.7	192.1	394.4	560.5	518.0	352.8
82.5°	110.8	112.3	140.6	143.2	138.0	133.0	133.8	229.6	287.1	261.3	189.5
85°	62.6	63.1	90.2	105.6	120.1	90.2	86.9	118.5	141.8	124.1	82.7
87.5°	27.9	29.0	43.3	49.9	64.9	52.9	49.5	50.3	61.2	50.8	32.8
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°	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9	799.9
2.5°	793.8	787.5	772.6	757.4	742.0	732.3	722.2	713.0	709.2	708.9	701.8
5°	797.2	782.2	748.4	711.1	675.6	648.0	625.0	609.9	595.4	592.9	586.6
7.5°	798.4	774.1	719.0	659.3	605.2	567.1	544.1	534.0	526.9	525.0	522.8
10°	798.0	763.6	686.0	604.4	542.8	514.2	505.7	507.8	510.9	512.4	512.4
12.5°	804.0	758.8	653.2	552.9	502.6	488.9	495.5	507.2	516.0	519.8	520.6
15°	814.8	755.8	617.1	508.3	474.2	477.7	494.1	510.9	523.5	529.1	530.5
17.5°	828.1	751.7	575.4	471.3	457.9	469.5	490.7	511.9	527.2	534.3	535.4
20°	843.1	745.8	532.1	443.8	443.4	457.9	479.2	503.1	519.4	527.2	526.9
22.5°	863.2	740.2	491.8	423.6	427.4	440.8	458.2	479.9	495.1	502.2	500.7
25°	890.0	735.0	455.6	405.7	409.1	418.0	430.3	446.6	457.4	461.2	458.7
27.5°	926.2	730.9	427.4	389.2	388.8	393.0	400.5	409.4	414.7	413.5	409.4
30°	970.6	726.6	406.5	374.8	369.6	369.2	372.4	377.6	381.2	374.4	371.0
32.5°	1020.1	719.6	387.8	362.0	352.8	349.4	350.9	358.0	371.8	365.0	362.5
35°	1078.8	711.5	369.2	348.3	341.1	334.9	336.0	351.2	393.0	388.2	385.6
37.5°	1149.2	704.0	352.0	333.4	333.0	325.1	324.4	342.7	398.6	388.2	385.9
40°	1233.8	702.5	336.8	316.9	322.9	319.9	317.3	328.5	367.6	346.3	342.3
42.5°	1336.0	709.2	325.5	301.3	311.4	318.4	313.6	316.3	332.3	313.1	309.8
45°	1455.3	727.4	317.3	287.5	299.0	317.3	311.7	309.5	312.2	301.7	299.4
47.5°	1594.4	760.0	311.7	275.9	287.5	314.3	311.0	306.5	305.3	299.4	297.9
50°	1743.3	803.5	307.9	265.4	277.0	309.0	310.6	304.3	302.4	299.8	299.0
52.5°	1890.8	851.0	303.4	256.6	268.5	302.8	311.0	302.0	299.4	297.9	297.2
55°	2037.7	900.1	295.4	248.7	262.1	295.4	310.6	299.0	296.0	296.0	296.0
57.5°	2228.2	975.1	284.6	242.4	254.0	285.7	305.8	295.7	291.6	291.9	292.3
60°	2503.4	1100.8	272.5	235.3	243.1	274.4	298.2	289.8	284.9	286.4	286.7
62.5°	2963.1	1320.4	256.1	225.2	231.9	262.6	288.5	281.4	277.0	279.6	280.0
65°	3576.2	1586.1	234.5	212.4	220.4	249.1	276.3	271.8	266.9	273.4	272.9
67.5°	3950.2	1664.1	211.8	199.2	209.1	234.8	261.0	259.2	255.7	266.9	266.3
69°	3827.6	1523.2	198.7	190.5	201.4	225.2	251.3	250.5	247.9	258.8	258.1
70°	3637.0	1391.6	190.5	185.0	197.3	219.2	245.0	245.0	242.4	251.6	249.8
72.5°	2921.5	1032.2	171.5	170.8	183.1	202.8	227.8	229.6	228.2	231.6	229.6
75°	1715.3	621.9	152.9	155.0	165.9	185.3	208.8	210.4	208.8	208.4	208.8
77.5°	594.8	279.0	134.9	138.2	147.6	167.4	187.9	190.9	188.6	186.0	186.8
80°	232.8	162.2	115.6	120.5	128.3	147.3	167.1	168.9	165.6	165.2	162.2
82.5°	139.9	98.9	89.9	97.6	107.3	127.9	144.3	143.5	140.9	156.2	136.8
85°	60.7	54.7	65.7	73.4	78.3	95.8	121.9	118.5	112.3	98.9	96.6
87.5°	24.7	28.3	36.2	43.6	47.0	62.0	83.5	80.6	81.7	67.2	66.7
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)