

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: P196257

Luminaire Tested: **NVN-AF-03-LED-U-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196257
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-03-LED-U-T2-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14653.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

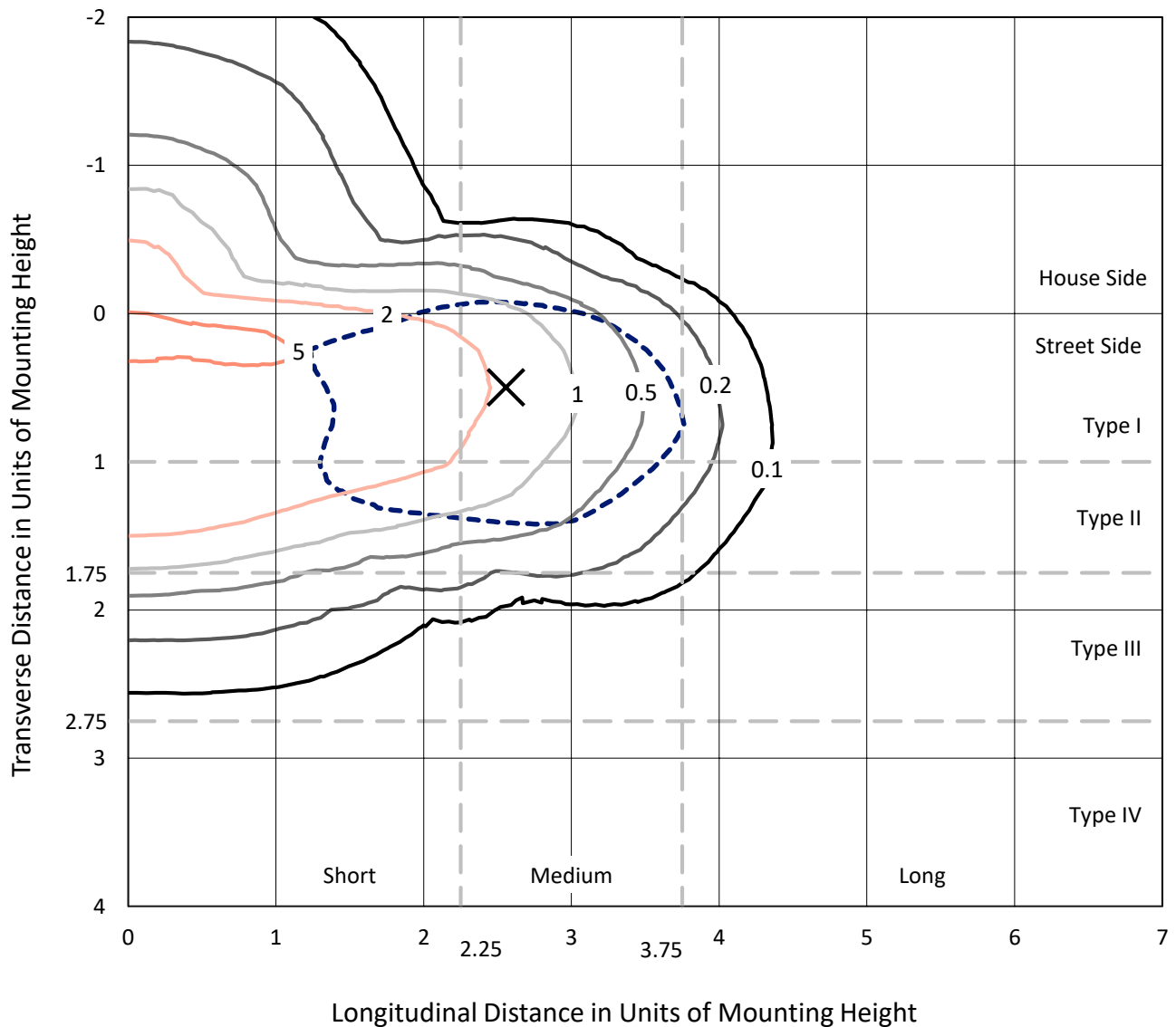
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

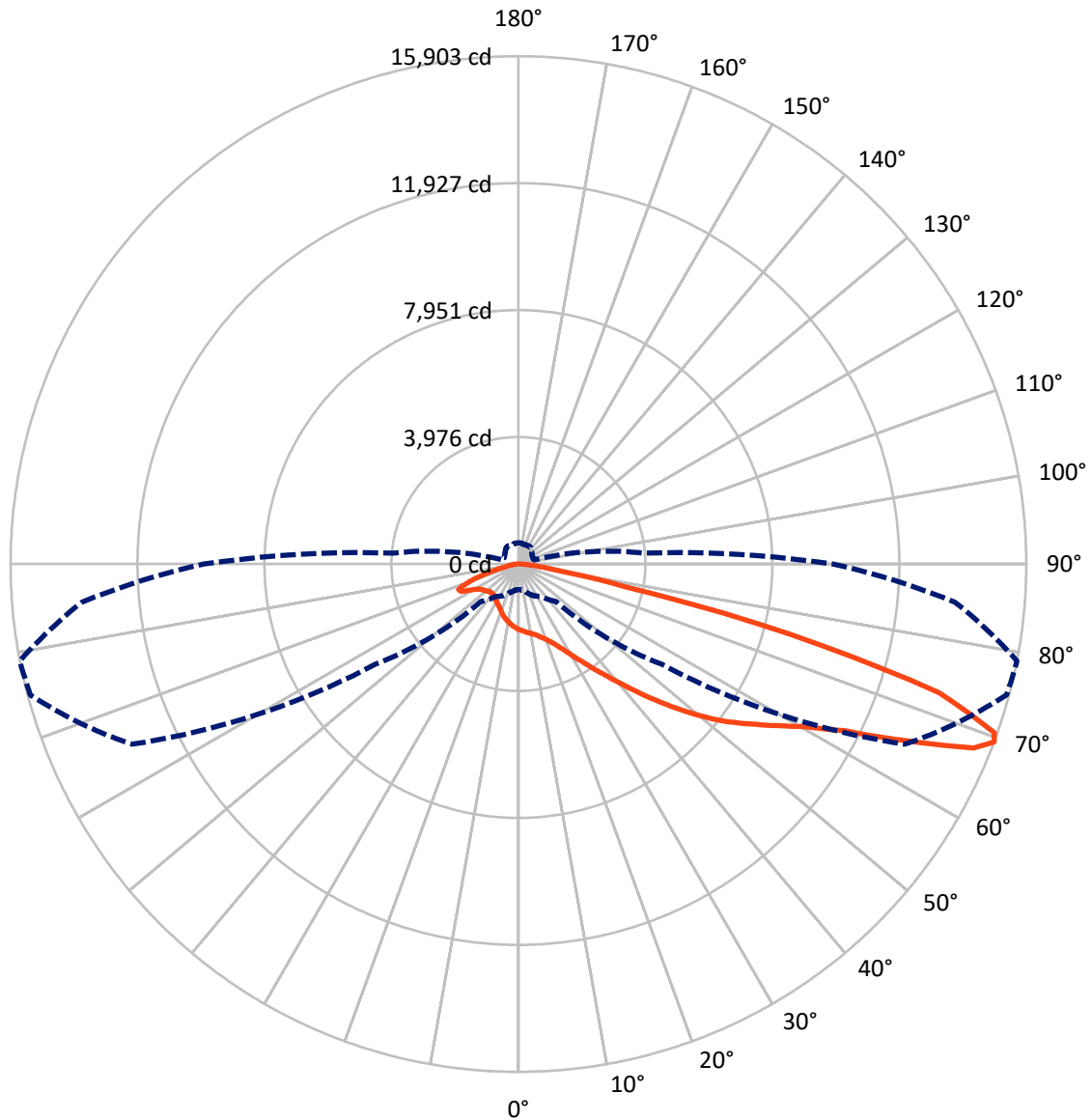


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Medium - Full Cutoff

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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	2756.6	0.0	2756.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11897.1	0.0	11897.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	14653.8	0.0	14653.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.3
10°-20°	546.6	3.7
20°-30°	903.1	6.2
30°-40°	1462.4	10.0
40°-50°	2336.2	15.9
50°-60°	3345.7	22.8
60°-70°	3727.6	25.4
70°-80°	1864.9	12.7
80°-90°	276.8	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°	14653.8	100.0
0°-180°	14653.8	100.0

Coefficient of Utilization



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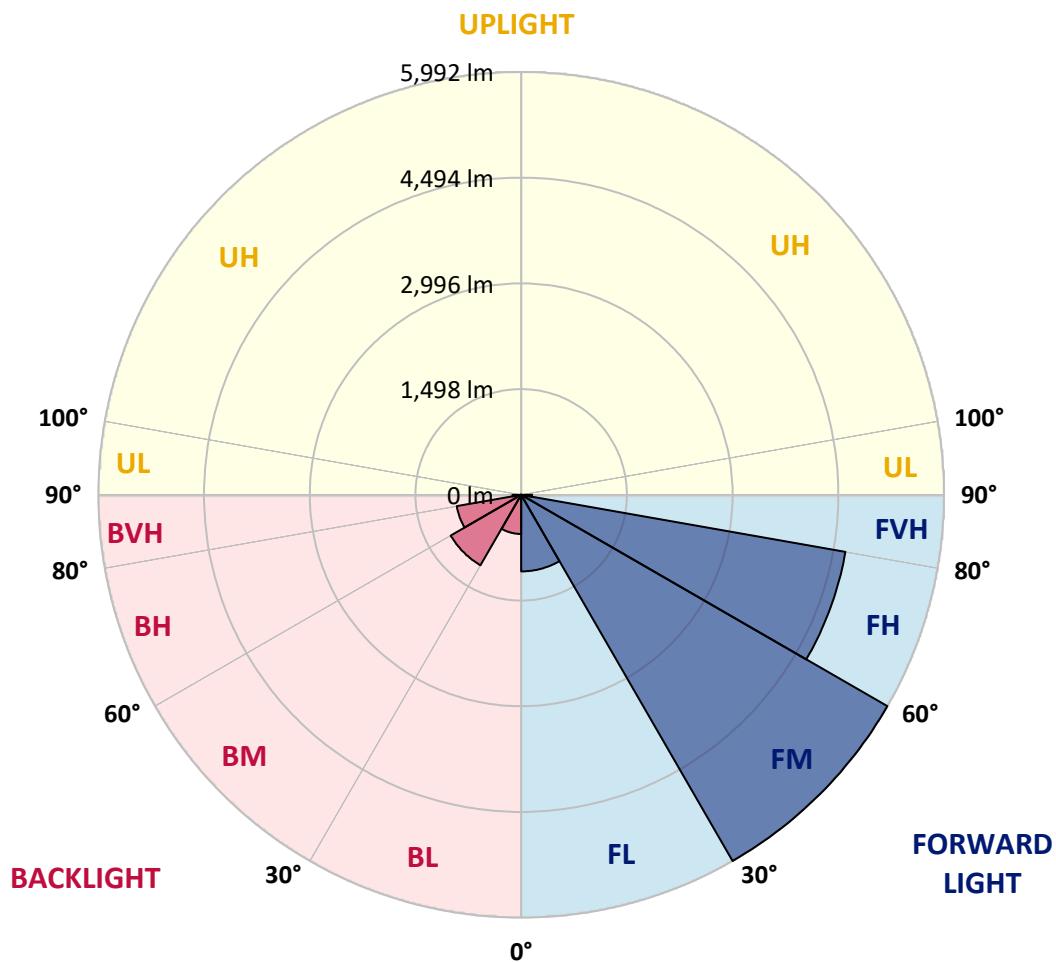
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.0	7.4			
FM (30°-60°)	5991.9	40.9			
FH (60°-80°)	4665.6	31.8			G2/5000
FVH (80°-90°)	154.6	1.1			G2/225
BL (0°-30°)	555.3	3.8	B2/1000		
BM (30°-60°)	1152.3	7.9	B2/2500		
BH (60°-80°)	926.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	122.1	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4
2.5°	2257.8	2252.9	2251.9	2237.6	2229.9	2213.6	2175.3	2135.9	2099.5	2080.4	2060.2
5°	2446.6	2437.0	2432.2	2408.2	2387.2	2350.7	2290.3	2228.0	2162.8	2129.3	2089.0
7.5°	2560.7	2561.6	2561.6	2542.4	2521.4	2477.3	2400.6	2315.2	2218.4	2174.3	2111.1
10°	2570.3	2571.2	2585.6	2590.4	2595.1	2572.2	2501.2	2393.8	2269.2	2211.7	2129.3
12.5°	2475.3	2482.1	2506.0	2540.5	2589.4	2614.4	2583.7	2478.2	2334.4	2264.4	2163.7
15°	2347.9	2354.5	2385.2	2437.9	2516.6	2599.9	2643.1	2575.1	2419.7	2337.2	2214.6
17.5°	2285.5	2293.1	2314.3	2356.5	2433.2	2545.3	2674.7	2678.6	2520.3	2425.5	2274.9
20°	2255.8	2261.5	2288.3	2322.9	2381.4	2488.7	2677.6	2787.8	2640.2	2530.0	2348.8
22.5°	2323.8	2325.8	2339.2	2358.4	2397.7	2480.1	2675.7	2901.0	2789.8	2661.3	2443.7
25°	2523.3	2510.8	2501.2	2477.3	2486.8	2545.3	2706.4	3021.8	2981.5	2833.9	2570.3
27.5°	2759.1	2757.2	2732.3	2676.7	2641.2	2678.6	2793.6	3156.9	3216.4	3053.4	2736.1
30°	3021.8	3022.7	2996.8	2928.8	2856.9	2860.7	2932.6	3313.2	3497.3	3318.0	2940.3
32.5°	3297.0	3314.2	3266.3	3198.2	3110.9	3083.2	3132.1	3502.1	3822.3	3630.6	3177.1
35°	3625.7	3628.6	3575.9	3476.2	3388.9	3344.8	3390.0	3738.0	4197.2	3997.7	3465.7
37.5°	3967.0	3968.9	3914.3	3786.9	3676.6	3647.8	3697.7	4024.6	4594.1	4415.7	3805.1
40°	4246.1	4266.1	4223.0	4103.2	3992.0	3974.7	4046.6	4367.8	5101.1	4910.4	4208.6
42.5°	4562.4	4585.4	4533.6	4409.0	4320.8	4315.0	4427.2	4759.0	5605.5	5482.7	4666.0
45°	4919.1	4951.6	4879.7	4739.7	4665.0	4791.5	4798.3	5192.3	6186.4	6123.2	5180.7
47.5°	5308.3	5335.1	5276.6	5126.1	5044.6	5227.7	5161.6	5661.0	6814.4	6809.6	5737.7
50°	5608.3	5638.1	5643.8	5577.6	5492.3	5515.3	5560.4	6153.9	7440.4	7515.2	6314.0
52.5°	5553.7	5582.4	5711.9	5885.3	6022.5	5963.1	6017.7	6677.3	8045.3	8203.5	6861.3
55°	5112.7	5128.1	5370.6	5782.8	6366.6	6650.4	6654.3	7246.7	8620.5	8842.0	7380.9
57.5°	4318.0	4319.8	4635.3	5243.0	6166.2	7096.2	7658.9	7961.9	9220.7	9547.6	8025.2
60°	3055.3	3063.0	3430.2	4225.0	5448.2	7042.5	8739.4	9241.7	9915.7	10340.4	8855.4
62.5°	1813.8	1831.1	2108.2	2745.7	4046.6	6352.3	9377.9	11518.6	10939.6	11503.3	10184.2
65°	1180.2	1194.5	1360.4	1680.6	2390.9	4621.8	9167.9	13723.6	12877.1	13332.5	12093.8
67.5°	908.8	920.3	1050.7	1244.4	1466.8	2498.4	7330.2	14185.7	15235.5	15377.4	13705.4
69°	798.6	808.1	904.1	1090.1	1234.8	1653.7	5462.6	13346.8	15825.0	15902.7	13725.5
70°	740.1	747.8	837.9	998.9	1134.1	1320.1	4180.8	12372.8	15609.4	15807.9	13329.6
72.5°	609.7	616.4	680.7	804.3	927.1	940.5	1852.2	9034.7	13143.6	13778.2	11280.0
75°	509.0	512.9	555.1	645.2	750.6	748.7	946.2	5117.5	8020.3	8776.8	6964.9
77.5°	424.7	427.6	455.4	511.0	592.5	589.6	666.2	2208.9	3541.4	3416.8	2397.7
80°	374.8	376.8	391.2	405.5	457.3	454.4	493.7	1014.3	1440.9	1331.6	906.9
82.5°	284.7	288.6	361.4	368.2	354.8	342.3	344.1	590.5	738.2	672.1	487.0
85°	161.0	162.0	232.0	271.3	308.7	232.0	223.4	304.8	364.3	319.3	212.9
87.5°	71.9	74.8	111.2	128.5	166.8	136.2	127.5	129.4	157.2	130.4	84.4
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°	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4	2056.4
2.5°	2041.1	2024.7	1986.4	1947.1	1907.8	1882.8	1857.0	1833.0	1823.4	1822.5	1804.3
5°	2049.7	2011.3	1924.1	1828.2	1737.2	1666.2	1606.7	1568.4	1531.1	1524.3	1508.0
7.5°	2052.6	1990.3	1848.4	1694.9	1555.9	1458.2	1398.7	1372.8	1354.6	1349.8	1344.1
10°	2051.6	1963.3	1764.0	1554.1	1395.8	1322.1	1300.0	1305.7	1313.4	1317.3	1317.3
12.5°	2067.0	1951.0	1679.6	1421.7	1292.3	1256.8	1274.1	1303.9	1326.9	1336.4	1338.3
15°	2094.7	1943.3	1586.6	1306.7	1219.5	1228.1	1270.3	1313.4	1346.0	1360.4	1364.2
17.5°	2129.3	1932.8	1479.3	1211.8	1177.3	1207.0	1261.6	1316.2	1355.6	1373.8	1376.7
20°	2167.6	1917.4	1368.1	1140.8	1139.9	1177.3	1231.9	1293.3	1335.5	1355.6	1354.6
22.5°	2219.4	1903.0	1264.5	1089.0	1098.6	1133.1	1178.2	1233.9	1273.2	1291.4	1287.5
25°	2288.3	1889.6	1171.5	1043.1	1051.7	1074.7	1106.3	1148.5	1176.3	1185.9	1179.2
27.5°	2381.4	1879.1	1098.6	1000.9	999.9	1010.5	1029.6	1052.6	1066.0	1063.2	1052.6
30°	2495.5	1868.5	1044.9	963.5	950.0	949.1	957.7	971.2	979.8	962.5	953.9
32.5°	2622.9	1850.3	997.1	930.9	906.9	898.3	902.1	920.3	955.8	938.6	931.8
35°	2773.5	1829.1	949.1	895.4	877.2	860.9	863.8	903.1	1010.5	998.0	991.2
37.5°	2954.7	1810.0	905.0	857.0	856.1	836.0	834.0	881.1	1024.8	998.0	992.3
40°	3172.3	1806.1	865.7	814.9	830.2	822.6	815.8	844.7	945.3	890.6	880.0
42.5°	3435.0	1823.4	837.0	774.6	800.5	818.8	806.3	812.9	854.2	805.3	796.7
45°	3741.7	1870.4	815.8	739.2	768.8	815.8	801.5	795.8	802.4	775.6	769.9
47.5°	4099.4	1953.8	801.5	709.4	739.2	808.1	799.5	788.1	785.2	769.9	766.0
50°	4481.9	2066.0	791.9	682.6	712.3	794.7	798.6	782.3	777.5	770.8	768.8
52.5°	4861.5	2187.7	780.4	659.6	690.3	778.5	799.5	776.5	769.9	766.0	764.0
55°	5239.2	2314.3	759.2	639.4	673.9	759.2	798.6	768.8	761.2	761.2	761.2
57.5°	5729.1	2506.9	731.5	623.2	652.8	734.4	786.1	760.3	749.7	750.6	751.6
60°	6436.6	2830.1	700.8	605.0	625.0	705.6	766.9	744.9	732.4	736.3	737.2
62.5°	7618.7	3394.8	658.6	579.1	596.3	674.9	742.0	723.8	712.3	719.0	720.0
65°	9194.8	4078.3	603.0	546.5	566.6	640.4	710.4	698.9	686.4	702.8	701.7
67.5°	10156.4	4278.6	544.5	512.0	537.9	604.0	671.1	666.2	657.7	686.4	684.5
69°	9840.9	3916.3	511.0	489.9	517.7	579.1	646.2	644.3	637.5	665.3	663.4
70°	9351.0	3577.9	489.9	475.5	507.2	563.7	629.8	629.8	623.2	647.1	642.3
72.5°	7511.3	2653.6	441.0	439.1	470.8	521.5	585.7	590.5	586.8	595.4	590.5
75°	4409.9	1599.1	393.0	398.8	426.6	476.5	536.8	540.7	536.8	535.9	536.8
77.5°	1529.1	717.1	347.1	355.7	379.6	430.5	483.1	490.8	485.1	478.4	480.3
80°	598.2	417.1	297.2	309.6	329.8	378.7	429.5	434.2	425.6	424.7	417.1
82.5°	359.5	254.1	231.1	251.1	276.1	328.9	371.0	369.1	362.4	401.7	351.8
85°	156.3	141.0	168.7	188.8	201.3	246.4	313.5	304.8	288.6	254.1	248.3
87.5°	63.3	72.8	93.0	112.2	120.8	159.2	214.7	207.0	209.9	172.6	171.7
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)