

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: P197283

Luminaire Tested: **NVN-AF-03-LED-U-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-8030-600
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9905 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

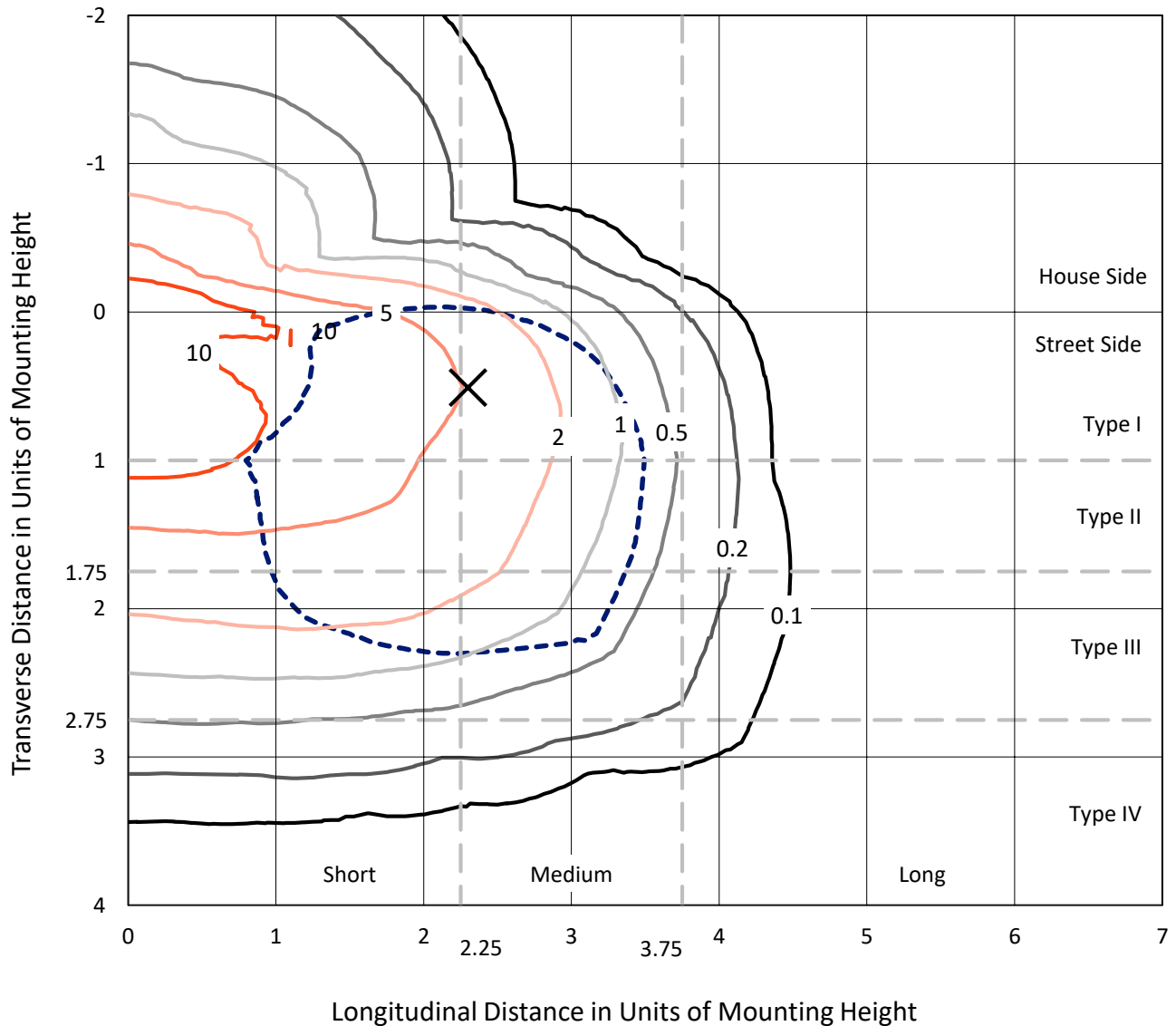
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

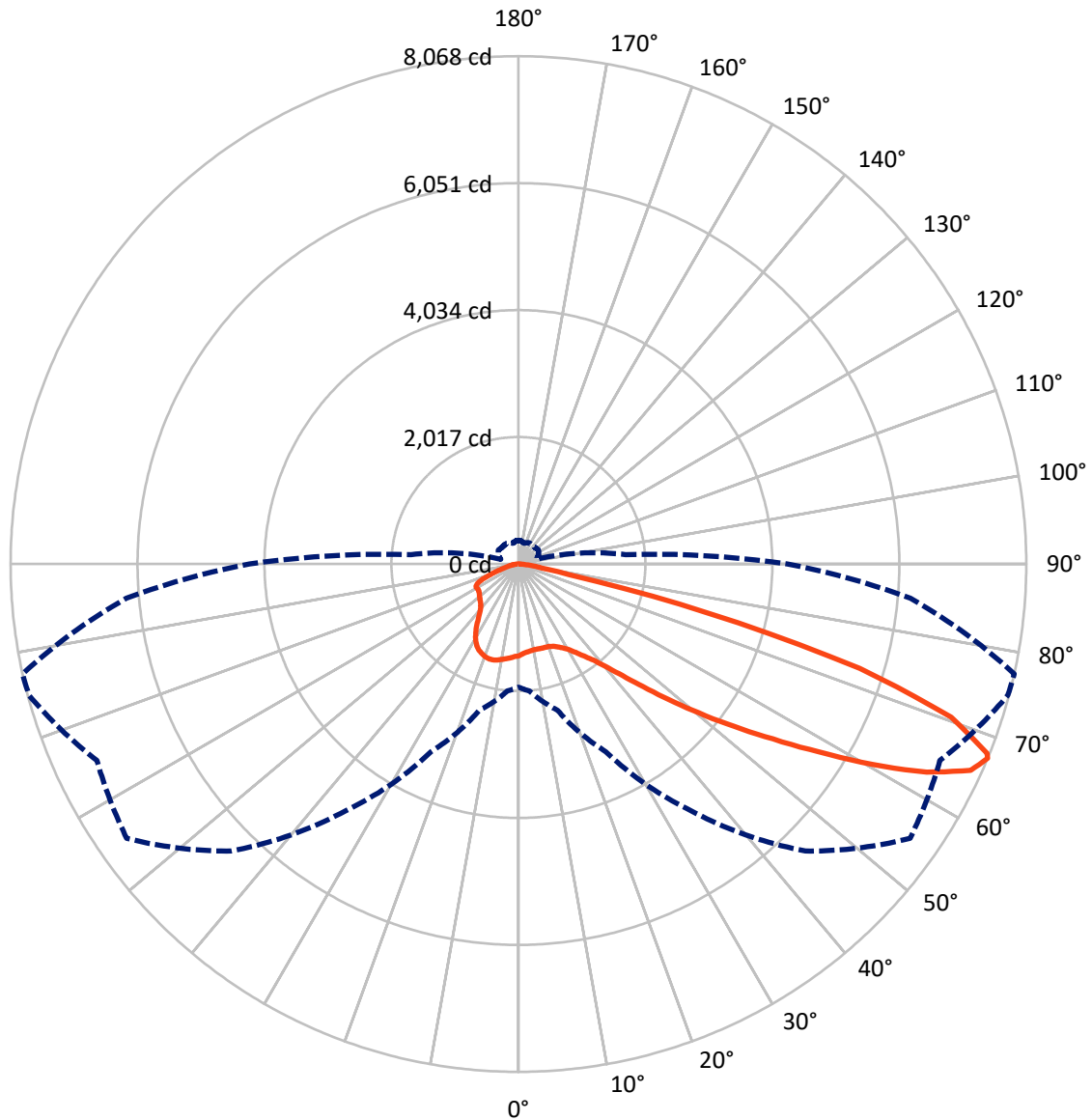
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1702.2	0.0	1702.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	8202.8	0.0	8202.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	9905.0	0.0	9905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	1.3
10°-20°	359.6	3.6
20°-30°	610.9	6.2
30°-40°	977.3	9.9
40°-50°	1504.6	15.2
50°-60°	2087.5	21.1
60°-70°	2784.6	28.1
70°-80°	1325.2	13.4
80°-90°	125.5	1.3
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°	9905.0	100.0
0°-180°	9905.0	100.0

Coefficient of Utilization



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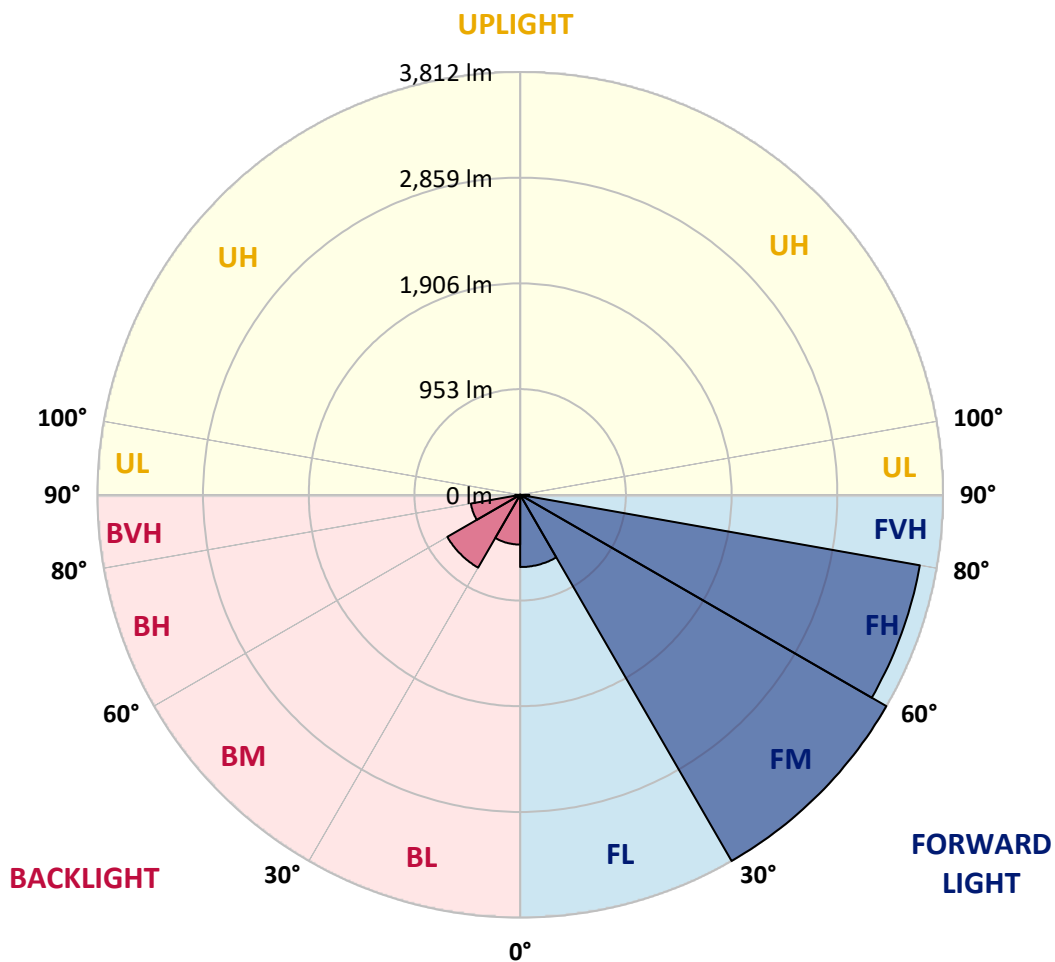
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	651.3	6.6			
FM	(30°-60°)	3811.6	38.5			
FH	(60°-80°)	3658.4	36.9			G2/5000
FVH	(80°-90°)	81.5	0.8			G1/100
BL	(0°-30°)	449.0	4.5	B1/500		
BM	(30°-60°)	757.9	7.7	B1/1000		
BH	(60°-80°)	451.3	4.6	B1/500		G1/500
BVH	(80°-90°)	44.0	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8
2.5°	1307.1	1313.3	1313.9	1331.6	1339.6	1359.8	1381.8	1401.4	1418.6	1424.7	1435.7
5°	1176.1	1176.1	1178.0	1189.6	1212.2	1244.7	1290.6	1340.8	1393.5	1406.3	1438.8
7.5°	1107.6	1108.8	1110.0	1121.6	1139.4	1168.2	1214.1	1282.7	1370.2	1391.6	1448.6
10°	1113.7	1111.8	1105.7	1103.3	1110.6	1129.0	1168.8	1239.2	1350.6	1383.7	1466.3
12.5°	1209.8	1206.1	1185.9	1156.5	1129.6	1122.9	1150.4	1217.1	1341.4	1383.7	1496.3
15°	1374.5	1376.9	1337.1	1275.9	1205.5	1157.8	1154.1	1209.2	1338.4	1387.3	1531.2
17.5°	1588.8	1590.0	1534.9	1446.1	1329.2	1230.6	1179.2	1209.2	1338.4	1391.0	1564.9
20°	1816.5	1808.0	1745.5	1634.1	1482.2	1331.6	1225.1	1216.5	1342.0	1396.5	1596.7
22.5°	2011.8	2003.9	1938.4	1821.4	1647.6	1451.0	1286.9	1241.0	1362.2	1419.2	1641.4
25°	2182.7	2187.6	2123.9	1992.2	1812.2	1585.7	1379.4	1297.3	1404.5	1460.2	1696.5
27.5°	2390.2	2381.0	2307.6	2182.0	1981.8	1725.3	1495.1	1368.4	1454.7	1509.8	1763.9
30°	2630.2	2625.9	2526.7	2397.6	2168.6	1881.4	1609.6	1444.9	1520.2	1577.8	1848.4
32.5°	2921.6	2921.0	2814.5	2655.9	2378.6	2057.8	1744.9	1549.6	1615.7	1673.9	1960.4
35°	3251.6	3251.0	3140.8	2931.4	2620.4	2253.1	1904.1	1676.9	1733.9	1795.1	2093.9
37.5°	3480.6	3476.9	3419.4	3216.1	2888.0	2480.2	2103.1	1848.4	1868.0	1936.5	2254.9
40°	3524.7	3546.7	3596.3	3476.3	3180.0	2732.5	2302.7	2032.7	2051.0	2139.2	2457.6
42.5°	3476.9	3505.7	3670.4	3704.1	3472.0	3038.0	2552.5	2288.0	2311.2	2420.8	2695.7
45°	3435.3	3460.4	3666.7	3830.2	3760.4	3371.0	2864.1	2599.6	2643.7	2779.6	2967.6
47.5°	3364.3	3387.6	3594.5	3852.9	3925.1	3691.8	3239.4	2974.3	3050.2	3214.9	3277.3
50°	3360.6	3371.0	3495.9	3776.9	3982.0	3935.5	3655.1	3412.7	3529.0	3718.8	3620.2
52.5°	3267.6	3340.4	3453.7	3655.7	3983.3	4077.6	4064.7	3893.3	4072.7	4282.7	3996.1
55°	2698.2	2782.0	3312.9	3596.3	3975.9	4199.4	4438.8	4404.5	4684.9	4905.9	4417.3
57.5°	2519.4	2554.9	2906.3	3614.1	4037.1	4400.8	4812.9	4953.7	5385.3	5626.5	4922.5
60°	2470.4	2507.8	2824.9	3622.7	4203.1	4767.6	5320.4	5573.9	6208.8	6464.7	5496.1
62.5°	2415.9	2464.3	2831.0	3630.6	4494.5	5310.0	5993.9	6246.7	7054.3	7282.7	6033.7
65°	2256.7	2321.0	2717.8	3580.4	4813.5	5990.8	6884.1	6948.4	7752.9	7898.0	6358.2
67°	1954.9	2025.3	2406.7	3290.2	4784.1	6449.4	7596.1	7387.4	8049.8	8067.6	6252.9
67.5°	1859.4	1932.2	2301.4	3169.6	4700.2	6509.4	7722.2	7448.0	8047.4	8027.8	6154.9
70°	1252.0	1334.1	1629.8	2327.1	3770.2	6058.2	7691.6	7261.2	7519.6	7294.9	5288.0
72.5°	621.4	623.9	813.1	1274.7	2284.3	4345.1	6416.3	6211.8	6095.5	5671.2	3880.4
75°	299.4	304.9	383.9	563.3	963.1	2243.3	4375.7	4191.4	3568.8	3090.0	1942.0
77.5°	228.4	233.9	298.2	366.7	401.6	731.6	2167.3	1751.6	1034.1	825.9	547.3
80°	176.3	186.7	251.6	281.6	265.7	293.3	681.4	536.3	402.2	369.2	271.2
82.5°	137.8	143.9	213.7	213.7	183.7	196.5	317.1	309.8	249.8	225.3	145.7
85°	97.3	109.6	172.0	159.2	120.6	121.8	189.8	181.8	128.6	103.5	56.9
87.5°	43.5	55.7	122.4	104.1	64.3	49.6	77.8	66.7	50.8	39.2	26.3
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°	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8	1457.8
2.5°	1448.0	1457.8	1473.1	1482.2	1494.5	1499.4	1504.3	1512.9	1519.6	1517.8	1514.7
5°	1461.4	1478.0	1496.9	1503.1	1503.1	1496.9	1493.3	1493.9	1492.0	1490.8	1487.1
7.5°	1481.0	1503.7	1517.1	1511.0	1492.0	1468.2	1445.5	1432.0	1419.2	1411.2	1413.7
10°	1508.6	1533.7	1534.3	1507.3	1462.0	1410.0	1365.3	1336.5	1309.0	1296.7	1300.4
12.5°	1548.4	1573.5	1552.0	1493.9	1414.3	1332.9	1250.8	1191.4	1138.2	1125.3	1121.6
15°	1591.2	1610.8	1563.1	1465.1	1345.7	1211.6	1073.9	985.1	925.7	915.3	911.6
17.5°	1628.6	1639.6	1557.6	1413.7	1237.3	1026.1	865.7	805.7	793.5	799.6	799.6
20°	1661.6	1658.0	1533.7	1334.1	1066.5	820.4	727.3	726.7	743.3	758.6	759.8
22.5°	1703.3	1674.5	1495.7	1215.9	862.7	684.5	668.6	684.5	702.9	720.0	721.8
25°	1752.9	1692.9	1444.9	1047.6	693.7	621.4	628.2	641.6	653.3	666.7	667.3
27.5°	1802.4	1706.9	1373.3	849.8	601.8	581.0	588.4	593.9	596.9	605.5	605.5
30°	1860.0	1718.0	1269.8	680.8	559.6	545.5	541.2	538.8	541.2	552.9	553.5
32.5°	1932.2	1737.6	1128.4	584.1	540.0	520.4	498.4	486.1	494.7	515.5	519.2
35°	2014.3	1760.8	958.8	545.5	533.3	508.2	467.8	448.8	451.8	470.8	473.9
37.5°	2117.1	1790.8	791.6	536.3	540.0	506.9	453.7	426.7	413.3	413.9	413.3
40°	2248.8	1820.8	659.4	538.8	554.7	510.0	446.9	404.7	376.5	377.8	380.2
42.5°	2386.5	1840.4	575.5	546.1	572.4	514.3	444.5	383.3	358.8	379.6	398.6
45°	2547.6	1834.9	532.0	552.9	585.9	516.1	435.3	380.8	360.6	423.1	458.6
47.5°	2732.5	1811.0	507.6	555.9	589.6	515.5	428.6	388.8	375.9	484.3	524.7
50°	2933.3	1773.7	488.0	551.0	587.8	513.1	435.9	398.6	382.0	497.8	529.0
52.5°	3153.1	1739.4	467.8	540.0	578.6	505.7	445.1	394.3	364.9	458.6	482.4
55°	3413.3	1731.4	445.1	521.0	563.3	497.8	440.2	380.8	345.9	406.5	421.2
57.5°	3710.8	1781.0	415.7	497.8	542.4	481.8	428.6	373.5	339.2	369.8	377.8
60°	4088.6	1890.6	384.5	473.3	516.7	458.0	418.2	375.3	341.0	364.3	366.1
62.5°	4383.7	1989.2	356.3	443.3	482.4	429.2	407.1	377.1	346.5	371.6	368.6
65°	4490.8	1940.8	321.4	398.6	434.1	397.3	391.8	378.4	346.5	375.9	369.2
67°	4271.0	1710.0	288.4	353.9	388.2	369.2	377.1	373.5	340.4	375.3	363.7
67.5°	4166.3	1628.6	279.8	346.5	375.9	360.6	373.5	371.0	338.6	374.1	360.6
70°	3435.9	1168.2	236.3	290.8	314.7	317.8	350.8	355.1	323.9	351.4	326.9
72.5°	2444.7	731.0	203.9	225.3	254.1	271.8	320.2	333.7	304.3	305.5	285.3
75°	1209.8	392.4	181.8	173.9	197.8	226.5	279.2	304.3	275.5	254.7	248.0
77.5°	408.4	222.2	153.7	140.2	153.7	181.8	231.4	265.7	243.1	215.5	211.2
80°	211.2	161.6	120.0	112.7	121.2	140.8	181.2	221.0	207.6	208.8	172.0
82.5°	131.6	98.6	86.3	85.7	91.8	107.8	133.5	179.4	178.2	152.4	110.8
85°	61.2	56.9	55.1	56.9	58.8	61.2	86.9	128.0	135.3	82.0	72.9
87.5°	25.7	25.1	22.0	23.9	26.3	25.7	34.9	54.5	75.9	51.4	47.1
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)