

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: P195338

Luminaire Tested: **NVN-AF-02-LED-U-T3-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P195338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-02-LED-U-T3-7060-600
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8028 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

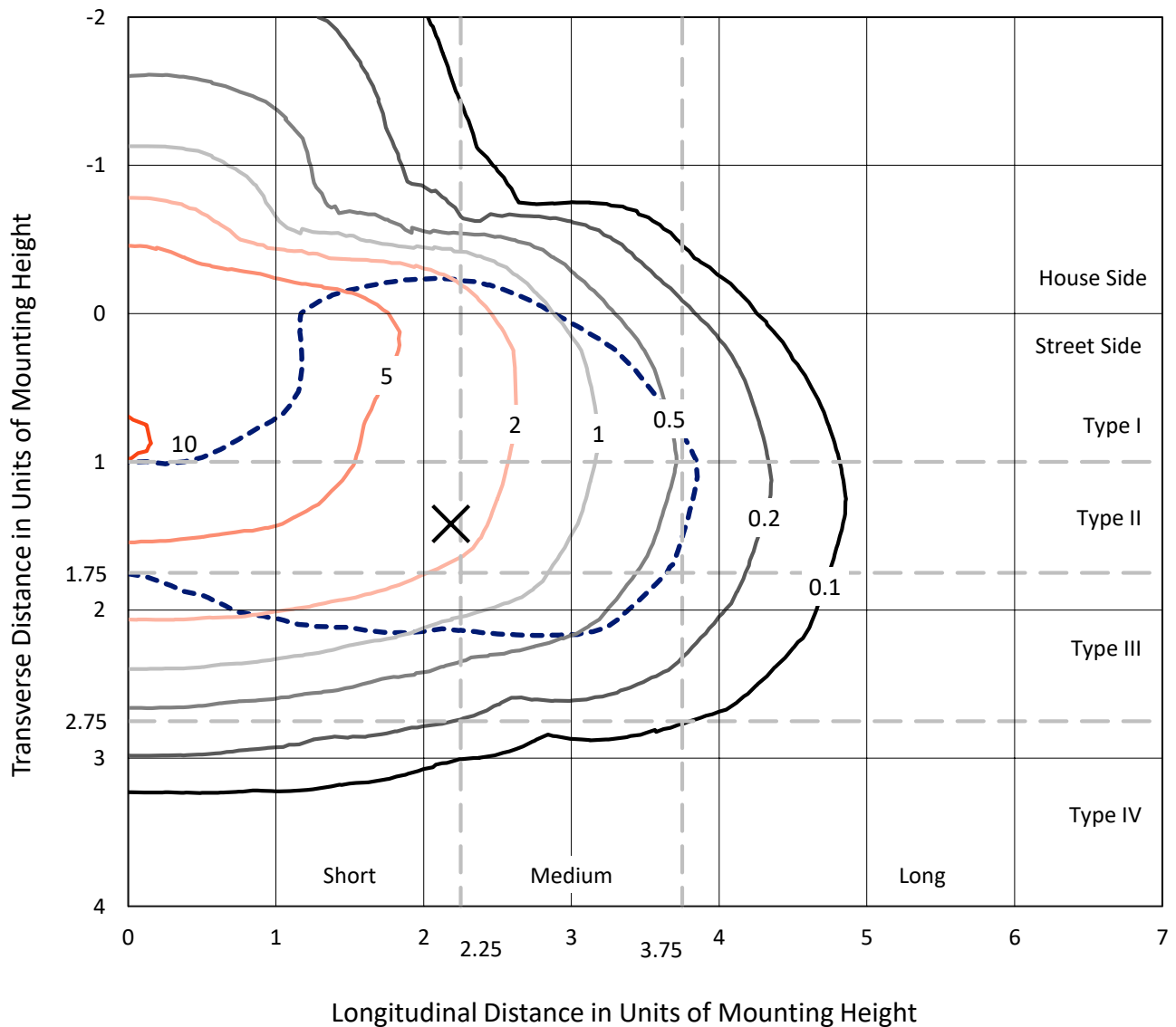
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

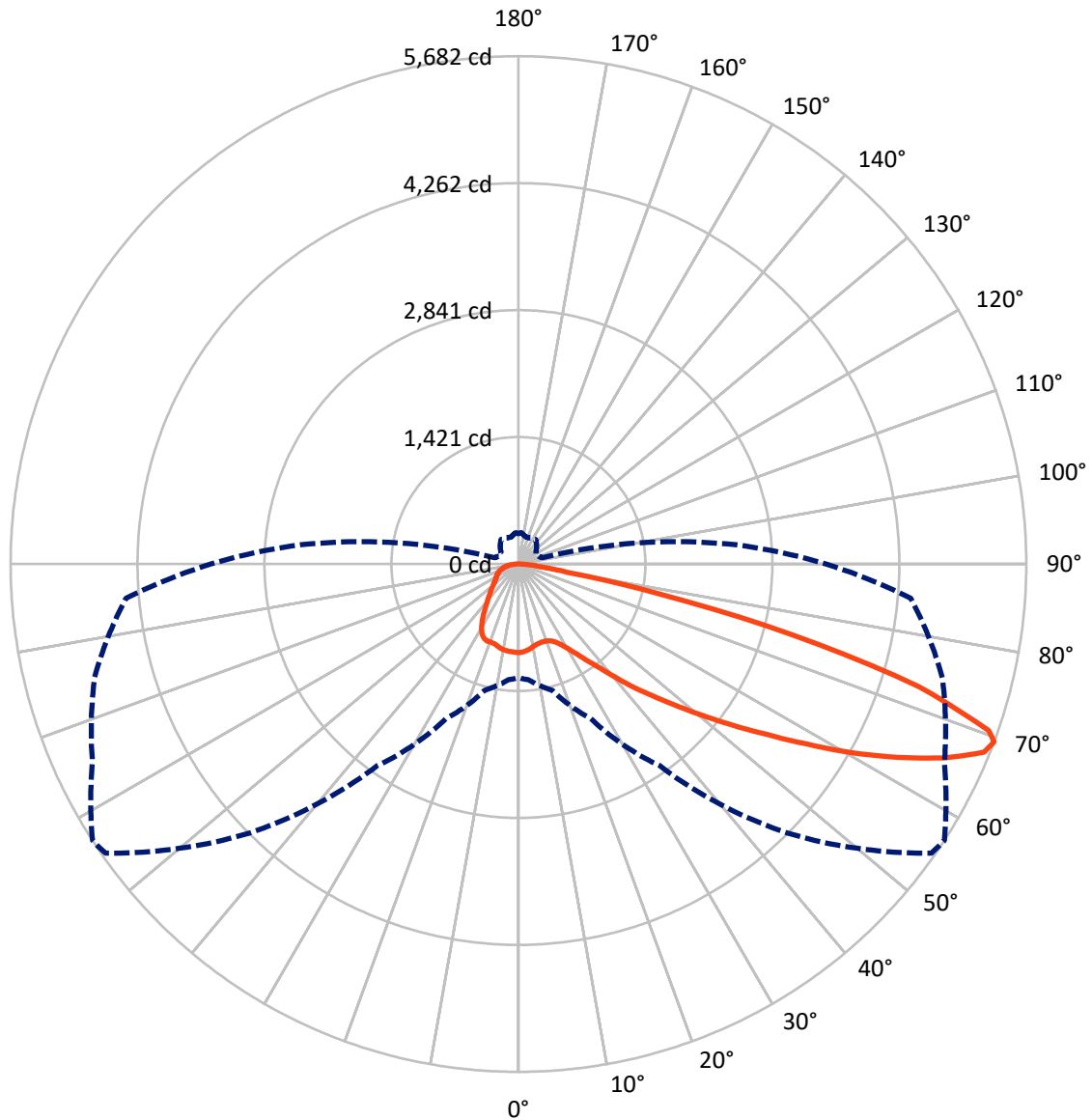
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.5	0.0	1771.5
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	6256.5	0.0	6256.5
	% Fixture	77.9	0.0	77.9
Total	Lumens	8028.0	0.0	8028.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.2
10°-20°	264.0	3.3
20°-30°	439.2	5.5
30°-40°	717.2	8.9
40°-50°	1210.5	15.1
50°-60°	1883.1	23.5
60°-70°	2243.1	27.9
70°-80°	1045.0	13.0
80°-90°	132.9	1.7
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°	8028.0	100.0
0°-180°	8028.0	100.0



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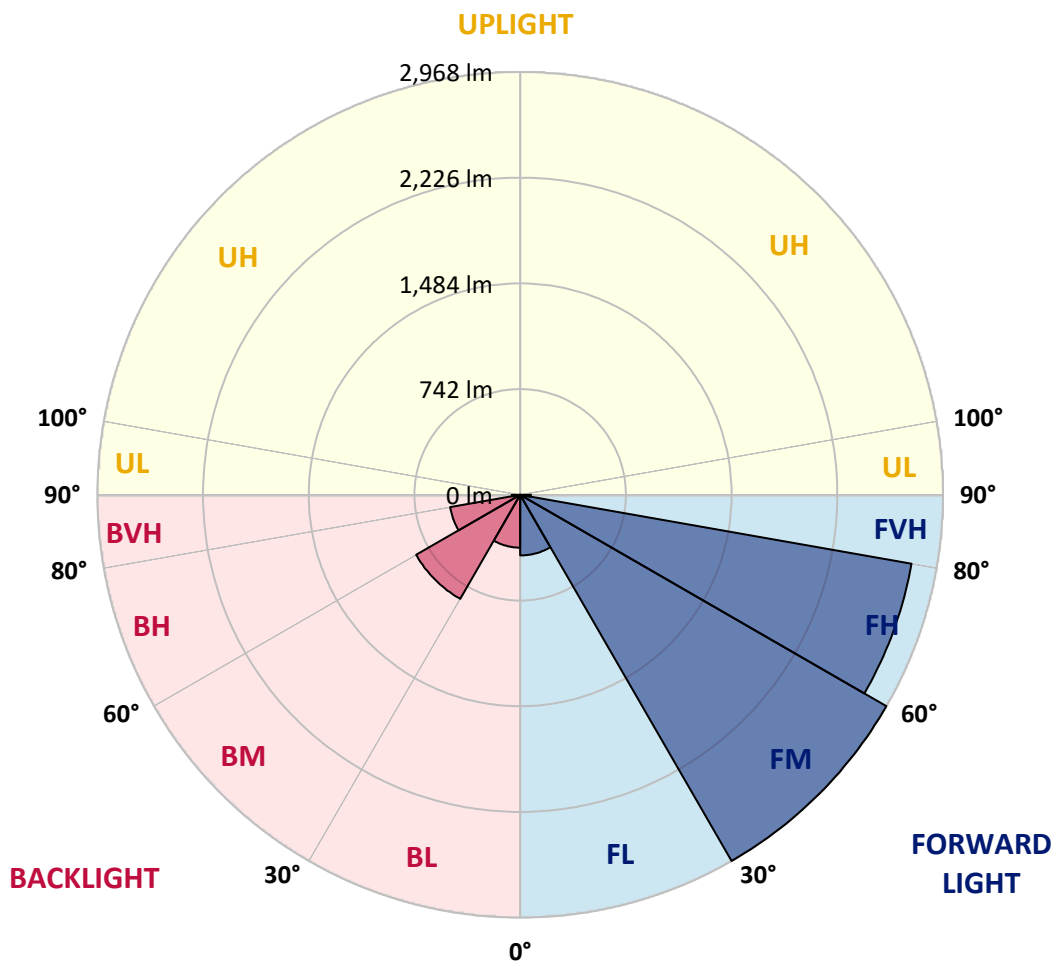
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	425.1	5.3			
FM	(30°-60°)	2967.7	37.0			
FH	(60°-80°)	2788.9	34.7			G2/5000
FVH	(80°-90°)	74.7	0.9			G1/100
BL	(0°-30°)	371.0	4.6	B1/500		
BM	(30°-60°)	843.1	10.5	B1/1000		
BH	(60°-80°)	499.2	6.2	B1/500		G1/500
BVH	(80°-90°)	58.2	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9
2.5°	986.3	986.3	988.9	988.9	988.9	987.8	984.7	985.8	983.7	982.2	979.6
5°	966.2	967.3	970.4	971.4	972.9	973.4	973.4	972.9	973.4	973.4	971.9
7.5°	938.5	939.5	943.1	945.2	949.8	953.9	956.0	956.0	958.5	960.6	961.1
10°	921.5	921.5	923.6	923.6	927.2	929.2	935.9	935.4	942.6	949.3	952.4
12.5°	919.5	919.5	918.4	914.8	912.8	912.3	919.0	920.0	930.8	942.6	948.3
15°	926.2	926.2	923.1	915.9	908.2	904.6	911.2	913.3	925.1	939.0	947.7
17.5°	947.7	947.2	940.5	926.2	912.8	907.1	909.2	911.2	922.0	938.0	948.8
20°	995.5	995.5	981.1	954.9	931.8	918.4	915.4	916.9	924.6	939.5	953.4
22.5°	1079.3	1080.9	1055.2	1012.0	972.4	944.1	931.8	933.3	936.9	951.3	966.8
25°	1202.7	1198.5	1162.1	1100.9	1039.2	990.9	965.7	967.3	967.3	980.6	996.6
27.5°	1333.2	1334.2	1281.8	1216.0	1134.8	1062.9	1022.8	1022.3	1021.7	1034.6	1051.6
30°	1480.7	1481.2	1420.6	1344.5	1251.5	1159.5	1099.4	1098.8	1094.2	1110.1	1132.2
32.5°	1642.1	1641.6	1571.2	1485.3	1382.0	1277.7	1199.6	1199.1	1195.5	1217.1	1243.8
35°	1821.0	1821.0	1751.1	1645.2	1533.6	1417.5	1327.0	1326.5	1328.6	1357.9	1383.1
37.5°	2036.3	2040.9	1956.6	1828.1	1706.3	1582.5	1477.1	1474.0	1458.6	1508.0	1549.6
40°	2260.9	2273.7	2186.4	2036.3	1904.7	1776.8	1660.6	1658.5	1645.2	1697.6	1764.9
42.5°	2504.0	2533.3	2436.2	2283.0	2139.6	2001.3	1884.7	1879.0	1827.6	1909.4	2014.7
45°	2822.7	2841.7	2700.8	2562.1	2426.9	2269.1	2130.4	2100.0	2048.6	2153.5	2290.2
47.5°	3039.5	3030.3	2942.4	2849.4	2762.5	2611.4	2398.1	2359.6	2296.9	2435.6	2586.2
50°	3174.2	3180.9	3131.5	3126.9	3122.3	3016.9	2700.3	2654.1	2581.6	2746.1	2921.8
52.5°	3263.1	3232.8	3241.5	3346.4	3473.3	3423.0	3042.1	2990.7	2916.2	3080.7	3279.0
55°	3226.1	3186.0	3266.7	3473.3	3771.9	3783.2	3417.3	3364.4	3300.6	3436.3	3708.7
57.5°	3073.0	3093.0	3220.5	3507.8	3976.0	4106.0	3848.5	3794.5	3669.1	3806.9	4116.8
60°	2857.6	2898.2	3093.0	3453.3	4118.9	4357.3	4321.9	4285.9	4070.0	4167.7	4545.4
62.5°	2626.3	2666.4	2905.9	3360.3	4054.6	4579.9	4786.5	4764.4	4512.5	4515.1	4817.3
65°	2284.5	2301.0	2545.6	3106.4	3876.3	4780.8	5251.6	5232.1	4935.5	4811.7	4893.4
67.5°	1725.4	1745.9	1946.9	2452.1	3333.5	4671.9	5623.2	5620.1	5189.9	4921.7	4712.5
69°	1274.1	1299.3	1463.2	1903.7	2756.4	4256.6	5640.7	5682.3	5258.8	4910.3	4406.7
70°	932.3	961.1	1112.7	1511.0	2295.8	3798.1	5491.1	5580.5	5232.6	4838.9	4168.2
72.5°	396.3	406.0	480.6	682.0	1164.6	2290.2	4497.6	4685.7	4725.8	4335.7	3256.4
75°	248.2	251.3	280.6	350.0	518.1	947.2	2912.6	3169.1	3528.3	3363.9	2180.2
77.5°	187.1	189.7	206.6	241.0	321.7	353.6	1351.2	1611.3	2020.9	1978.7	1085.0
80°	143.4	144.9	156.2	175.3	226.7	221.5	438.4	551.0	843.4	744.2	383.9
82.5°	112.6	113.1	122.8	126.4	158.3	149.0	220.0	245.2	340.8	283.2	187.6
85°	99.7	101.2	111.0	92.5	101.2	89.9	120.8	131.1	180.9	170.6	70.9
87.5°	50.9	53.5	93.0	79.1	50.9	42.7	52.9	57.0	73.5	79.7	34.4
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°	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9	991.9
2.5°	980.1	980.6	982.2	984.7	988.9	994.0	1000.2	1006.3	1009.9	1012.5	1011.5
5°	971.9	972.4	975.5	980.1	985.3	993.0	1003.2	1011.0	1016.6	1020.2	1019.7
7.5°	961.6	963.2	969.3	974.5	981.7	987.8	996.0	1003.2	1008.9	1012.5	1012.0
10°	953.9	955.4	963.2	969.8	976.0	977.0	975.5	973.4	972.9	975.5	974.5
12.5°	950.3	953.4	960.6	965.2	962.6	952.9	941.6	936.9	935.4	940.5	941.1
15°	951.3	953.9	960.1	957.0	943.1	926.7	920.5	924.1	927.2	930.3	930.8
17.5°	953.9	955.4	957.0	945.7	926.2	915.4	913.3	909.7	900.5	895.3	894.8
20°	958.5	960.6	958.0	940.0	922.6	908.2	883.5	861.4	840.3	829.0	824.4
22.5°	974.5	976.0	968.3	950.8	924.1	877.3	827.5	789.4	757.1	739.6	732.9
25°	1005.8	1008.4	997.6	975.5	905.6	823.9	753.5	702.1	661.5	640.4	634.7
27.5°	1060.8	1063.4	1051.6	994.0	862.4	752.4	667.1	616.2	581.3	563.3	560.7
30°	1143.0	1146.6	1135.8	993.5	796.6	661.5	582.8	553.0	533.0	520.6	520.1
32.5°	1257.1	1270.5	1226.3	976.0	715.4	569.5	519.1	508.8	499.1	490.8	490.8
35°	1402.1	1433.4	1315.7	939.5	626.0	506.8	483.6	473.9	461.5	452.8	451.8
37.5°	1575.3	1624.1	1379.5	874.8	548.9	476.4	462.0	446.1	426.6	409.6	405.5
40°	1813.2	1824.5	1410.8	769.4	491.3	460.0	442.0	422.0	397.3	378.3	376.2
42.5°	2052.2	2015.2	1404.6	656.3	458.4	445.1	421.4	399.3	377.2	361.3	361.3
45°	2324.1	2181.7	1357.9	542.7	428.6	428.1	402.4	381.4	364.4	352.6	350.0
47.5°	2584.2	2331.3	1277.2	459.0	397.8	411.2	390.1	373.1	357.7	346.4	344.4
50°	2899.7	2504.5	1191.4	400.4	368.0	396.3	385.0	376.2	361.3	341.8	339.7
52.5°	3213.3	2707.0	1125.1	356.2	341.8	384.4	388.0	389.1	375.2	337.2	334.6
55°	3549.9	2923.4	1055.2	321.7	320.2	378.8	395.2	394.2	387.5	338.2	334.1
57.5°	3870.1	3140.8	950.8	297.6	303.2	373.1	396.8	380.3	368.5	343.3	336.6
60°	4135.3	3320.7	797.7	280.6	288.8	361.8	386.5	361.8	341.8	342.3	336.1
62.5°	4264.3	3371.0	610.1	261.1	277.0	343.3	371.6	347.9	329.4	344.4	340.8
65°	4166.1	3227.7	434.8	243.1	262.6	321.7	362.9	336.1	323.3	354.6	350.5
67.5°	3813.6	2837.0	315.6	227.2	248.8	299.6	346.4	325.3	317.1	362.3	353.1
69°	3438.9	2449.5	273.4	217.9	239.0	287.8	335.6	319.7	312.5	351.5	338.2
70°	3127.4	2150.9	252.4	212.3	230.8	281.1	327.4	316.1	307.9	338.7	322.8
72.5°	2242.4	1390.3	212.3	195.3	209.2	266.2	309.4	302.7	290.4	305.8	295.5
75°	1354.8	725.7	180.4	177.8	186.6	245.7	288.3	280.1	267.8	269.3	264.2
77.5°	622.4	335.1	151.1	157.3	162.9	220.0	262.6	253.4	242.1	238.0	238.5
80°	272.9	195.8	126.4	134.1	137.2	197.9	234.9	224.6	212.3	234.4	217.4
82.5°	147.5	113.6	98.7	103.8	112.6	172.2	204.0	190.7	178.9	208.2	168.1
85°	59.6	58.1	66.8	72.0	78.1	123.9	170.6	156.8	142.4	127.5	124.4
87.5°	25.7	27.8	32.9	34.9	41.6	77.1	114.6	100.2	100.7	86.3	84.8
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)