

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: P271150

Luminaire Tested: **NVN-AF-06-LED-U-SL2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-06-LED-U-SL2-7027-1200  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33657.9 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 382  
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

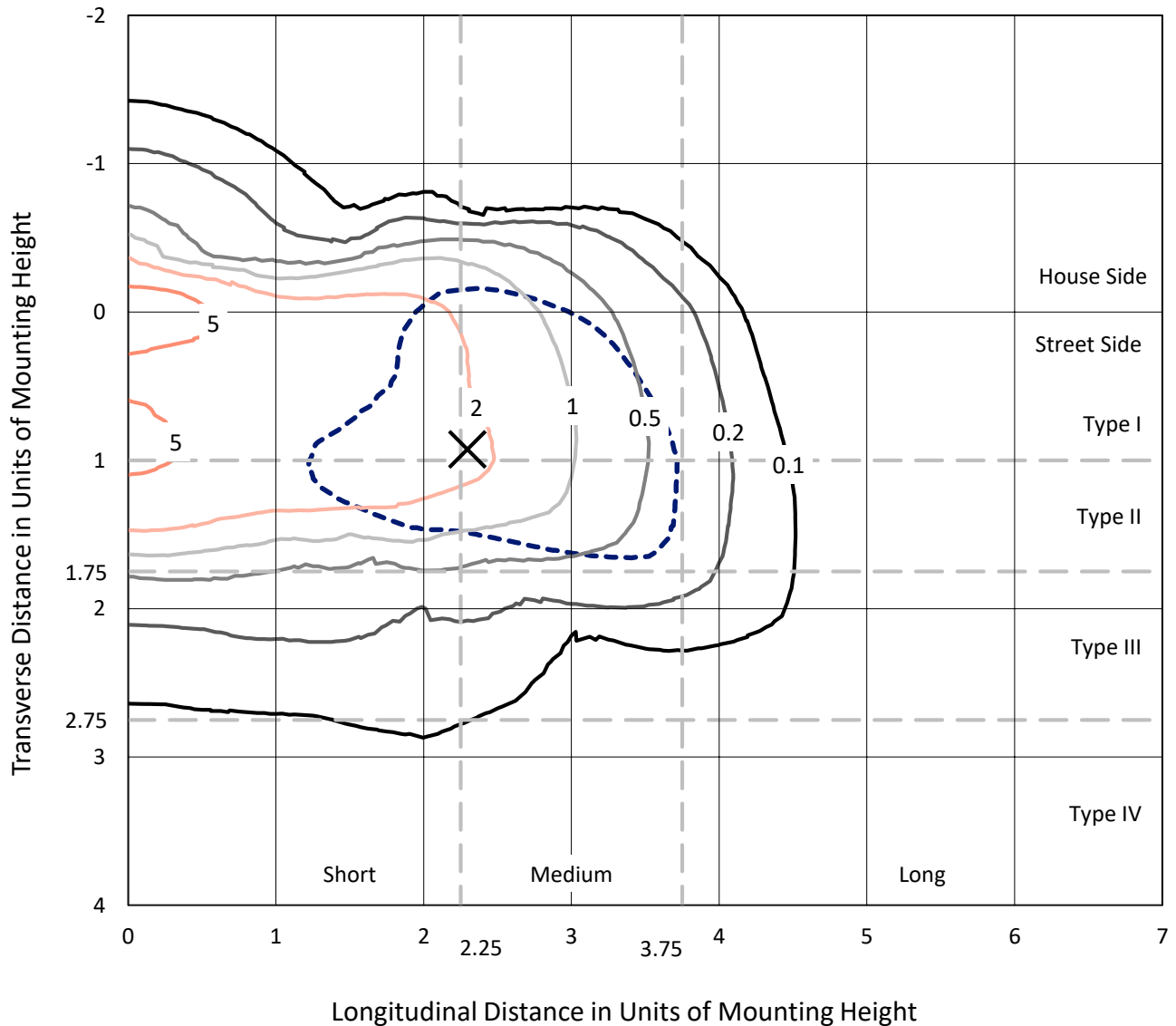


REPORT NUMBER: P271150

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-1200

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

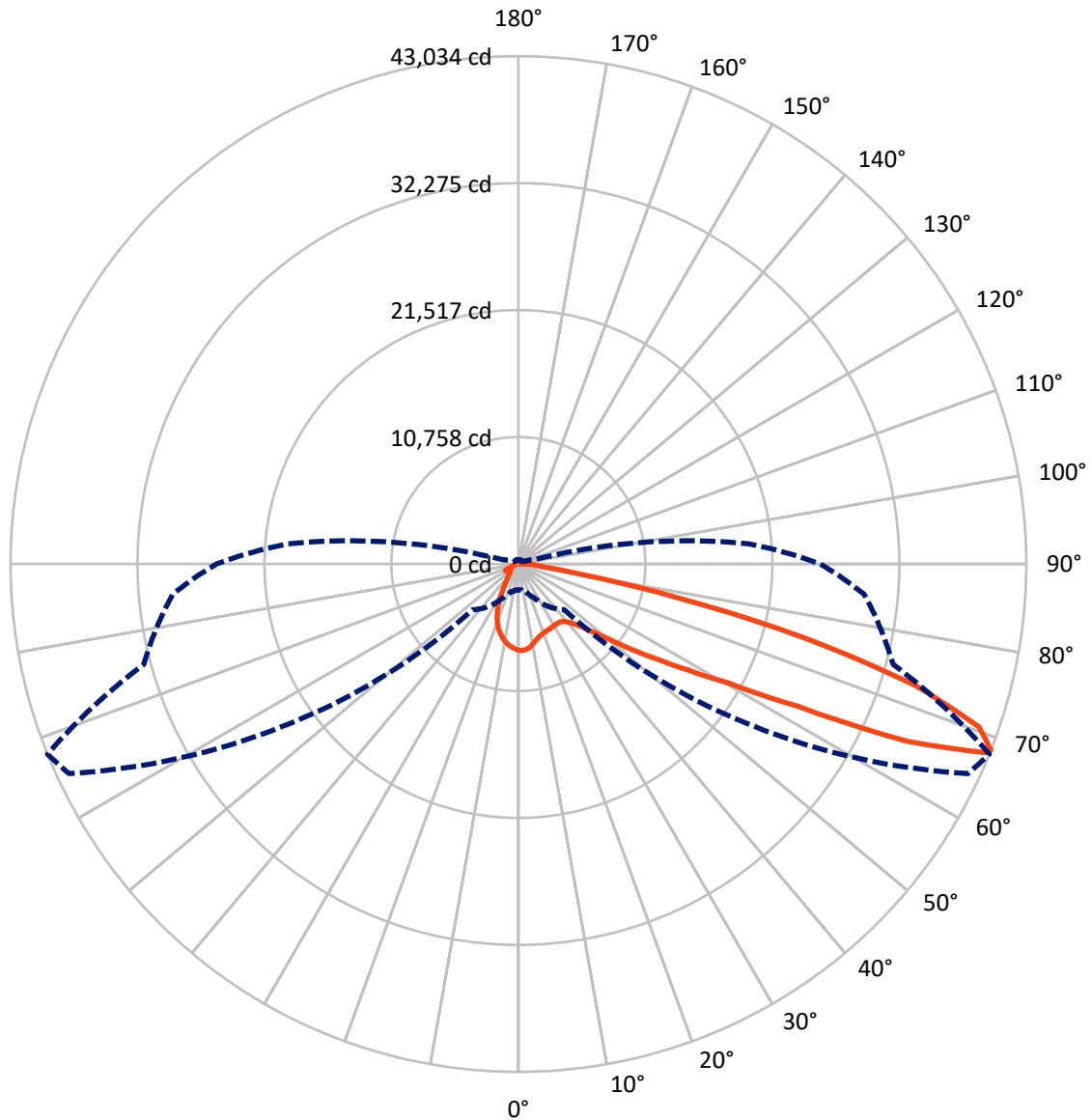


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Medium - Semi-Cutoff

REPORT NUMBER: P271150

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P271150

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5506.5	0.0	5506.5
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	28151.4	0.0	28151.4
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	33657.9	0.0	33657.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.5	1.9
10°-20°	1455.4	4.3
20°-30°	1968.4	5.8
30°-40°	2775.4	8.2
40°-50°	4563.8	13.6
50°-60°	7074.3	21.0
60°-70°	9172.3	27.3
70°-80°	5263.6	15.6
80°-90°	757.3	2.2
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°	33657.9	100.0
0°-180°	33657.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P271150

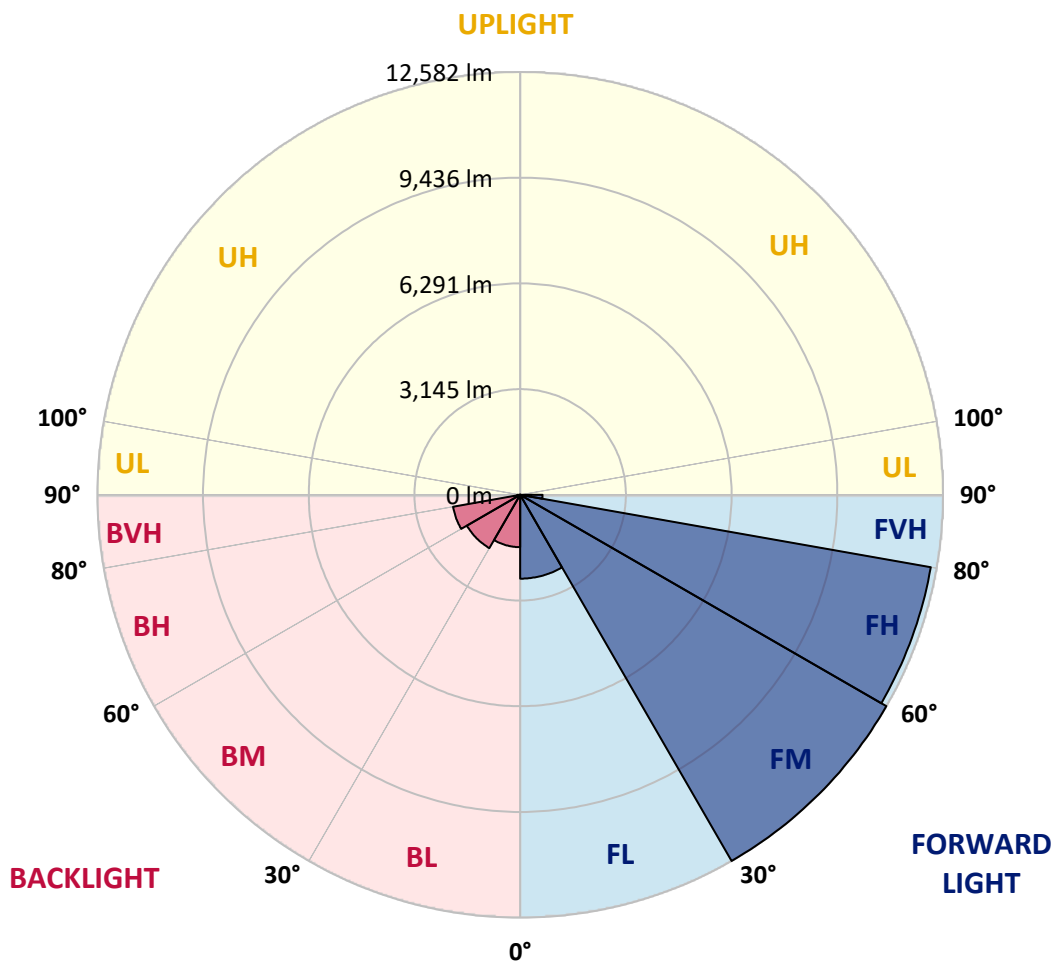
CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2494.6	7.4			
FM (30°-60°)	12581.9	37.4			
FH (60°-80°)	12407.9	36.9			G5
FVH (80°-90°)	667.0	2.0			G4/750
BL (0°-30°)	1556.7	4.6	B3/2500		
BM (30°-60°)	1831.5	5.4	B2/2500		
BH (60°-80°)	2028.0	6.0	B3/2500		G3/2500
BVH (80°-90°)	90.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





REPORT NUMBER: P271150

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7
2.5°	7128.1	7185.2	7185.2	7227.0	7264.4	7295.0	7321.5	7321.5	7321.5	7303.8	7288.5
5°	6378.2	6455.2	6466.2	6571.7	6710.2	6879.5	7068.7	7235.7	7268.6	7330.3	7354.5
7.5°	5857.2	5881.4	5923.2	5995.6	6136.4	6345.3	6642.1	7015.9	7106.0	7299.4	7400.6
10°	5487.7	5507.6	5542.8	5615.3	5742.9	5932.0	6224.4	6710.2	6859.7	7202.7	7402.8
12.5°	5217.4	5232.7	5265.8	5331.7	5461.4	5630.8	5929.7	6435.4	6620.1	7106.0	7433.7
15°	5006.3	5032.7	5059.1	5122.9	5254.7	5417.5	5720.9	6235.3	6435.4	7029.1	7490.7
17.5°	4922.7	4935.9	4940.4	4973.3	5092.0	5256.9	5560.4	6094.6	6301.3	6967.6	7534.8
20°	4975.5	4977.7	4933.8	4911.8	4979.9	5131.6	5426.2	5989.1	6200.1	6912.5	7552.3
22.5°	5206.3	5206.3	5092.0	4995.4	4949.1	5043.7	5336.1	5916.5	6145.1	6870.7	7552.3
25°	5646.0	5626.4	5448.2	5256.9	5052.4	5012.9	5278.9	5870.3	6103.4	6848.8	7523.8
27.5°	6224.4	6206.7	5980.2	5696.7	5327.3	5078.8	5259.1	5833.0	6061.7	6815.8	7462.2
30°	6927.9	6912.5	6655.4	6283.7	5738.5	5287.8	5305.3	5806.6	6028.6	6760.9	7358.8
32.5°	7629.2	7620.5	7416.0	7035.6	6305.7	5641.7	5426.2	5802.2	6011.1	6694.9	7233.5
35°	8335.1	8335.1	8209.7	7888.7	7068.7	6173.8	5679.1	5883.5	6044.1	6659.7	7125.7
37.5°	9377.1	9335.5	9102.3	8770.4	8029.4	6864.2	6088.1	6055.0	6171.5	6719.1	7090.6
40°	10991.0	10870.1	10287.4	9729.0	9078.2	7748.1	6686.1	6387.0	6457.3	6921.4	7174.1
42.5°	12679.5	12488.2	11716.6	10823.9	10162.2	8838.6	7470.9	6925.8	6923.4	7312.7	7440.2
45°	14128.5	14029.5	13194.0	12061.7	11399.9	10065.4	8462.6	7726.1	7646.8	7919.5	7952.4
47.5°	14970.6	14904.6	14401.1	13372.1	12868.6	11514.2	9720.2	8836.4	8686.8	8849.6	8799.0
50°	14737.5	14801.3	14656.1	14130.7	14447.4	13550.3	11323.0	10357.7	10074.1	10236.8	10113.7
52.5°	13510.7	13682.2	13811.9	13912.9	15355.3	16274.4	13337.0	12257.5	12022.1	11993.6	11874.9
55°	11300.9	11573.7	11982.6	12725.7	15111.3	18462.0	16854.8	14555.0	14212.1	14031.7	14077.9
57.5°	7690.8	8104.1	8985.8	10399.6	13842.6	19394.1	22056.8	17523.1	16942.8	16300.7	16450.2
60°	4236.8	4582.0	5630.8	7055.5	10947.0	19255.7	26667.4	22347.0	20520.0	18818.1	19126.0
62.5°	2741.6	2816.5	3597.0	4819.4	6719.1	16999.9	29228.7	30409.3	26537.5	22138.1	22571.3
65°	2203.1	2255.9	2638.3	3887.1	4680.9	10936.1	29343.0	38773.1	36220.4	26649.7	26663.0
67.5°	2152.5	2176.7	2398.7	3269.4	4390.6	5954.0	25363.6	42071.0	42662.5	31974.8	29400.2
68°	2183.2	2211.8	2436.2	3168.2	4388.5	5487.7	23441.9	42020.3	43033.9	32865.3	29400.2
70°	1926.0	1961.2	2484.4	3278.2	4201.6	4718.3	16052.3	39788.7	41420.2	34912.2	27896.3
72.5°	1007.0	978.4	1229.1	2587.7	4729.2	4916.2	8480.2	33241.2	35145.3	32333.2	24101.4
75°	784.8	714.5	688.2	1022.5	4159.8	5098.6	4925.0	23626.6	25064.5	23307.8	16109.5
77.5°	738.8	653.0	602.5	604.6	1831.5	5305.3	3984.0	13904.1	13904.1	11118.5	5140.5
80°	593.6	514.5	481.5	549.7	883.8	4889.7	4157.6	6336.5	5404.3	2873.6	1415.9
82.5°	391.3	349.6	351.7	446.3	670.6	3265.0	4815.1	3128.6	2350.3	1273.0	833.3
85°	248.4	213.3	237.4	312.3	501.3	1455.6	4766.6	2174.4	1556.7	714.5	415.6
87.5°	125.4	96.7	118.8	162.8	305.7	417.7	3924.5	1941.3	1154.3	296.8	226.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271150

CATALOG NUMBER: NVN-AF-06-LED-U-SL2-7027-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7	7323.7
2.5°	7288.5	7240.1	7215.9	7176.4	7128.1	7079.6	7046.7	7031.3	7022.5	7026.8	7024.7
5°	7341.3	7277.4	7174.1	7026.8	6875.2	6714.7	6591.6	6497.0	6437.7	6420.0	6415.6
7.5°	7380.8	7288.5	7095.1	6826.8	6567.2	6285.9	6046.2	5855.0	5725.3	5665.9	5663.8
10°	7374.2	7255.5	6949.8	6554.2	6173.8	5760.4	5384.5	5063.4	4830.5	4718.3	4713.9
12.5°	7380.8	7218.2	6771.9	6235.3	5690.0	5098.6	4540.3	4041.0	3693.7	3528.8	3522.3
15°	7407.2	7178.5	6589.2	5879.1	5125.0	4289.5	3491.4	2864.9	2548.2	2440.4	2440.4
17.5°	7405.0	7112.6	6378.2	5465.7	4454.4	3335.3	2383.4	1996.4	1965.6	2064.6	2079.9
20°	7361.0	7007.0	6105.6	4975.5	3667.3	2308.6	1616.1	1561.1	1807.3	2079.9	2110.7
22.5°	7292.9	6870.7	5791.3	4406.0	2750.5	1503.9	1246.6	1330.2	1664.4	2003.0	2051.3
25°	7198.4	6705.8	5430.7	3744.2	1829.3	1081.6	1040.0	1143.4	1378.5	1605.0	1640.1
27.5°	7059.8	6497.0	5037.1	3027.5	1167.4	890.4	905.9	978.4	1079.6	1176.3	1196.1
30°	6886.1	6252.9	4608.3	2233.8	886.1	795.9	822.3	866.2	910.3	971.7	985.0
32.5°	6710.2	6004.5	4162.0	1534.7	773.9	745.4	771.7	795.9	833.3	875.0	883.8
35°	6552.0	5773.6	3702.5	1070.7	725.6	712.4	725.6	740.9	778.3	820.2	824.5
37.5°	6437.7	5584.6	3223.2	846.5	696.9	683.8	690.3	696.9	740.9	802.5	809.2
40°	6422.3	5459.2	2737.3	760.8	674.9	657.4	653.0	657.4	714.5	784.8	791.4
42.5°	6571.7	5465.7	2262.4	725.6	657.4	637.5	620.0	628.9	679.4	734.4	738.8
45°	6925.8	5619.7	1851.2	710.2	642.0	626.6	600.2	604.6	628.9	657.4	661.8
47.5°	7550.2	5956.1	1536.8	701.3	628.9	615.6	582.6	569.4	571.6	587.0	587.0
50°	8548.4	6519.0	1345.7	692.6	617.9	593.6	556.3	529.9	523.3	532.1	534.2
52.5°	10036.9	7484.1	1253.2	674.9	598.0	565.0	523.3	496.9	486.0	494.6	494.6
55°	12048.5	9025.5	1209.3	650.8	573.8	529.9	492.5	470.5	461.6	468.2	468.2
57.5°	14341.7	11028.4	1283.9	617.9	543.0	492.5	466.1	450.7	444.1	450.7	452.9
60°	17065.8	13649.1	1798.4	576.1	510.1	459.6	444.1	435.3	430.9	437.6	437.6
62.5°	20687.0	17136.2	2783.5	543.0	474.9	428.8	424.3	420.0	415.6	422.2	422.2
65°	24596.2	20308.8	2864.9	523.3	444.1	402.4	404.5	404.5	400.1	406.8	406.8
67.5°	25840.6	20034.0	1600.6	499.1	406.8	376.0	384.7	384.7	382.6	389.1	387.0
68°	25576.8	19598.7	1393.9	492.5	400.1	369.4	378.1	380.3	378.1	384.7	382.6
70°	23611.2	17206.6	916.8	455.1	371.5	347.4	360.6	362.7	360.6	369.4	367.1
72.5°	19491.0	12905.9	677.2	397.9	336.3	318.8	332.1	334.2	336.3	345.2	343.1
75°	12378.4	7128.1	534.2	338.7	301.2	285.8	299.0	305.7	310.1	323.2	316.7
77.5°	3390.4	2163.5	433.2	288.0	259.4	252.9	261.6	270.4	274.8	290.2	279.3
80°	1187.3	956.4	360.6	244.1	215.5	213.3	222.2	230.9	235.3	248.4	235.3
82.5°	721.2	624.4	288.0	191.2	169.3	167.1	178.0	186.8	191.2	191.2	182.4
85°	376.0	329.8	211.1	134.0	116.5	110.0	129.7	140.8	142.9	140.8	134.0
87.5°	211.1	186.8	112.1	63.8	52.8	54.9	68.1	83.5	90.1	87.9	83.5
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)