

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: P885346

Luminaire Tested: **NVN-SB6C-830-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6C-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29044 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

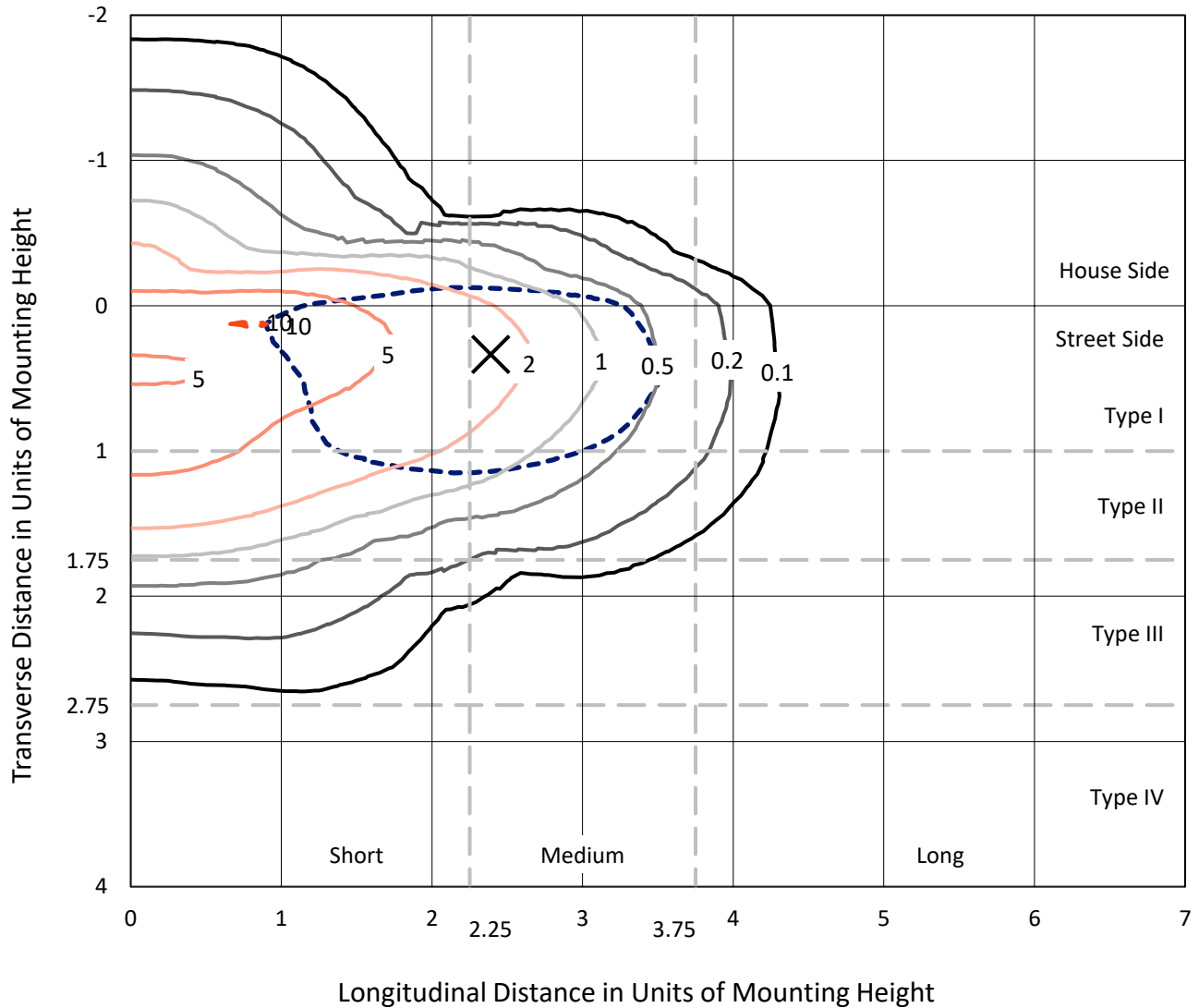
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

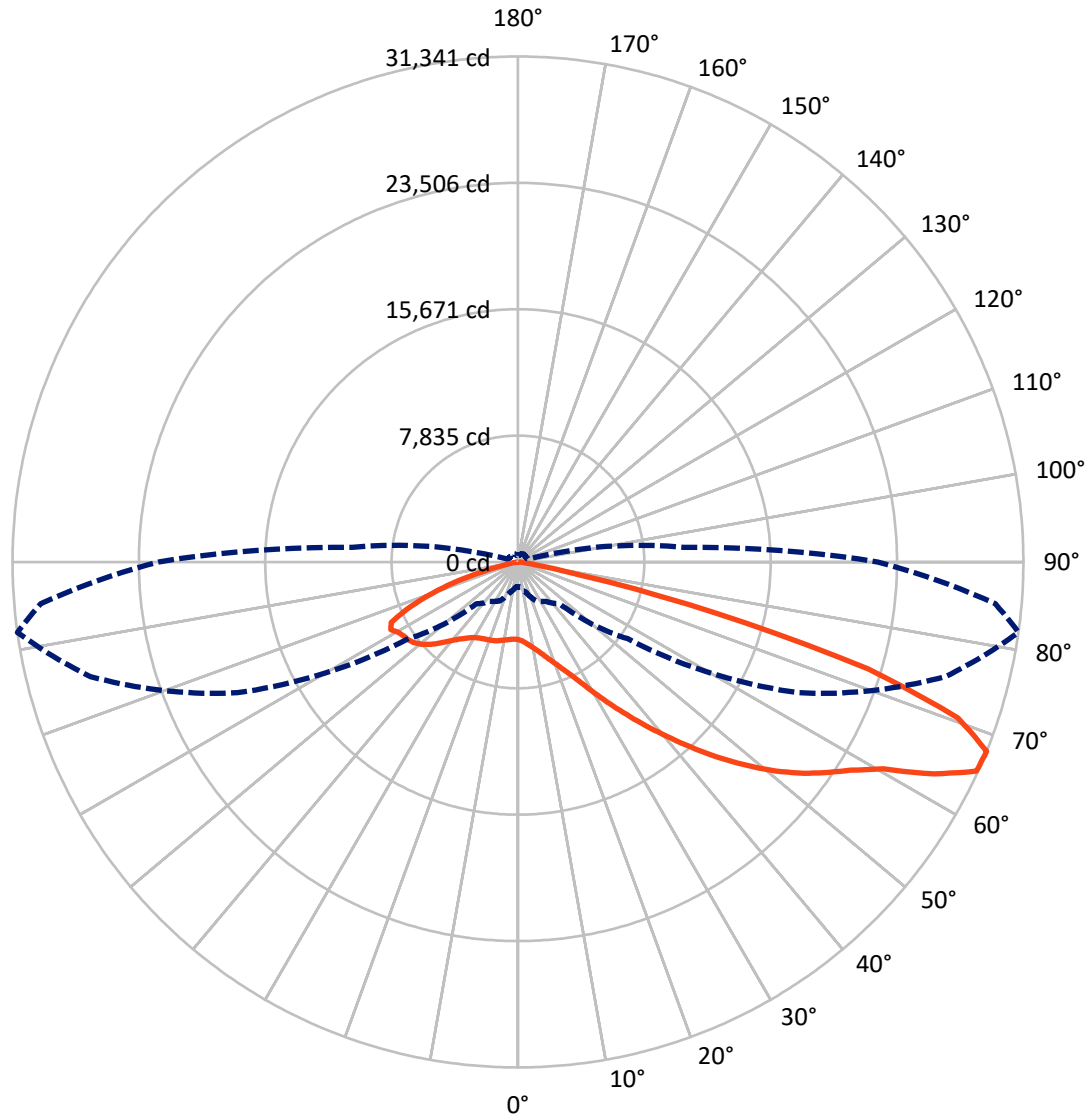
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5261.1	0.0	5261.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	23782.9	0.0	23782.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	29044.0	0.0	29044.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.7	1.5
10°-20°	1114.0	3.8
20°-30°	1784.2	6.1
30°-40°	3155.0	10.9
40°-50°	5527.9	19.0
50°-60°	7372.7	25.4
60°-70°	6863.6	23.6
70°-80°	2634.3	9.1
80°-90°	163.6	0.6
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°	29044.0	100.0
0°-180°	29044.0	100.0

Coefficient of Utilization



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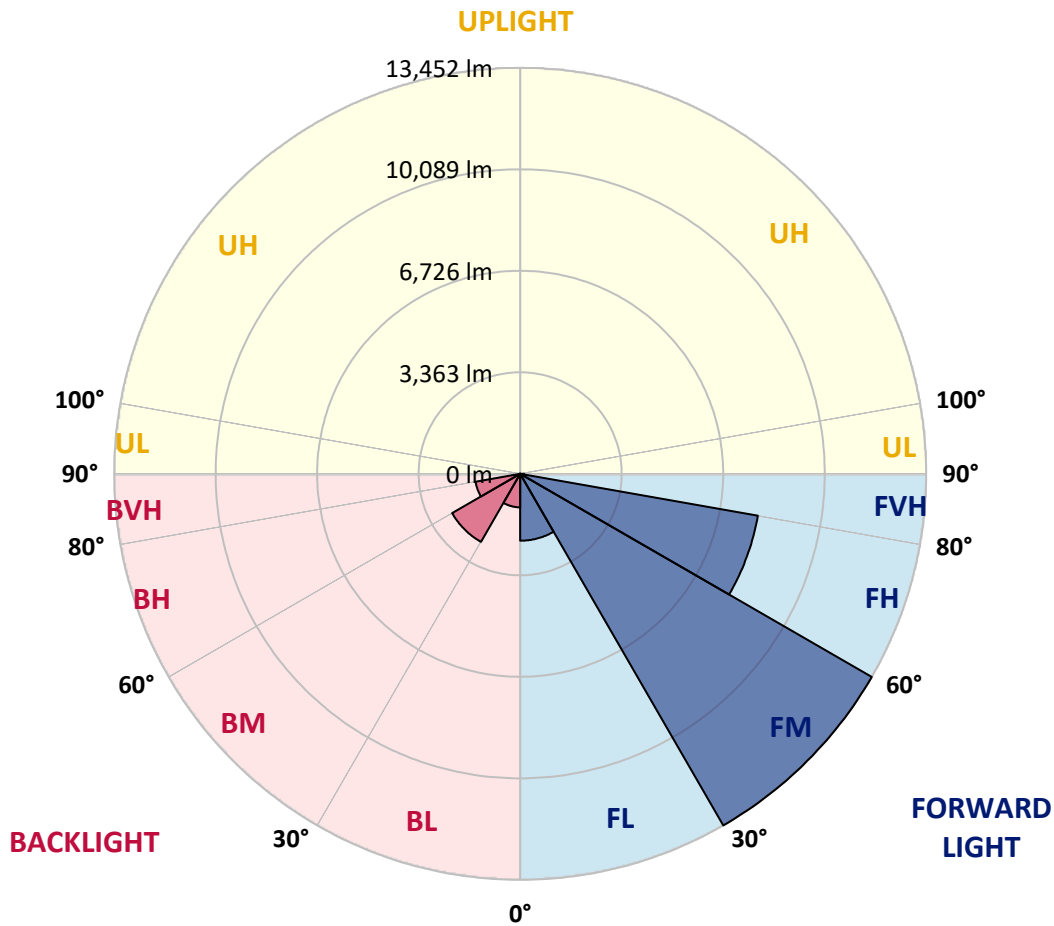
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2215.7	7.6			
FM (30°-60°)	13452.0	46.3			
FH (60°-80°)	7996.3	27.5			G4/12000
FVH (80°-90°)	118.9	0.4			G2/225
BL (0°-30°)	1111.1	3.8	B3/2500		
BM (30°-60°)	2603.7	9.0	B3/5000		
BH (60°-80°)	1501.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	44.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6
2.5°	5085.5	5114.8	5098.1	5089.7	5075.1	5054.2	5037.4	4985.2	4930.8	4895.3	4882.7
5°	5188.0	5217.3	5215.2	5223.6	5234.0	5240.3	5236.1	5177.5	5100.2	5039.5	5004.0
7.5°	5100.2	5133.6	5160.8	5202.6	5275.8	5353.2	5390.8	5378.3	5298.8	5215.2	5171.3
10°	4851.3	4886.9	4951.7	5050.0	5204.7	5372.0	5512.1	5576.9	5526.8	5434.8	5374.1
12.5°	4395.5	4431.0	4558.6	4771.9	5031.2	5321.8	5589.5	5763.1	5775.6	5683.6	5612.5
15°	3883.2	3918.7	4054.6	4322.3	4717.5	5183.8	5631.3	5959.6	6070.4	5991.0	5905.3
17.5°	3565.3	3596.7	3699.1	3914.5	4326.5	4907.8	5616.7	6168.7	6421.8	6359.0	6256.6
20°	3469.1	3496.3	3544.4	3695.0	4037.9	4621.3	5520.5	6365.3	6800.2	6764.7	6649.7
22.5°	3571.6	3596.7	3611.3	3678.2	3893.6	4433.1	5399.2	6566.0	7239.4	7243.6	7103.4
25°	3807.9	3833.0	3816.2	3858.1	3952.2	4374.6	5353.2	6802.3	7791.4	7837.4	7678.5
27.5°	4196.8	4198.9	4159.2	4157.1	4171.7	4462.4	5401.3	7055.4	8487.8	8573.5	8376.9
30°	4976.8	4945.4	4792.8	4627.6	4552.3	4725.9	5535.1	7354.4	9309.6	9462.2	9215.5
32.5°	6179.2	6133.2	5853.0	5457.8	5060.4	5150.4	5775.6	7695.2	10204.5	10480.6	10179.4
35°	7484.0	7471.5	7178.7	6591.1	5896.9	5754.7	6166.6	8142.7	11181.1	11620.2	11262.6
37.5°	8696.9	8690.6	8523.3	7831.1	6986.3	6597.4	6794.0	8728.2	12226.6	12862.3	12439.9
40°	9805.1	9824.0	9656.7	9037.7	8186.6	7678.5	7647.1	9451.7	13389.3	14215.3	13713.4
42.5°	10762.9	10783.8	10614.4	10156.4	9372.3	8874.6	8694.8	10338.4	14524.7	15668.6	15074.7
45°	11413.2	11542.8	11517.7	11151.8	10589.3	10072.8	9953.6	11450.8	15819.1	17209.7	16513.4
47.5°	11597.2	11716.4	11904.6	11954.8	11611.8	11103.7	11245.9	12791.2	17128.2	18752.9	17960.4
50°	11143.4	11254.3	11645.3	12166.0	12404.4	12247.5	12502.7	14227.8	18468.5	20292.0	19380.3
52.5°	10248.5	10361.4	10854.9	11678.8	12651.1	13144.6	13763.6	15643.5	19767.1	21749.5	20724.8
55°	8954.1	9073.3	9706.9	10639.5	12180.6	13514.7	14815.4	17057.1	20956.9	23060.6	21937.7
57.5°	7193.4	7281.2	7939.9	9244.7	10997.1	13146.7	15591.2	18600.3	22077.8	24348.7	23140.0
60°	4688.2	4765.6	5530.9	6986.3	9035.6	11917.1	15745.9	20321.3	23566.6	26023.7	24760.6
62.5°	3117.8	3170.1	3623.9	4692.4	6363.2	9556.3	14840.5	21695.1	25749.7	28938.7	27539.7
65°	2139.2	2191.5	2645.2	3389.7	4111.1	6321.4	12237.1	21513.2	27727.9	31253.5	29599.4
67.5°	1526.5	1570.4	1955.2	2657.8	2975.6	3672.0	8295.4	19187.9	27443.5	31341.3	29710.3
70°	1093.6	1118.7	1436.6	2070.2	2365.0	2206.1	4613.0	14675.3	24028.8	28940.7	27447.7
72.5°	765.3	773.7	997.5	1576.7	1905.0	1610.1	2195.6	9784.2	18173.7	22715.6	21279.0
75°	518.6	529.0	671.2	1156.4	1528.6	1229.6	1162.6	5246.6	10668.8	12573.7	11271.0
77.5°	317.8	322.0	432.9	790.4	1143.8	936.8	748.6	2222.8	4127.8	4052.5	3454.5
80°	179.8	179.8	276.0	491.4	780.0	604.3	524.9	945.2	1306.9	1148.0	1012.1
82.5°	100.4	102.5	200.7	305.3	516.5	357.6	288.6	437.0	564.6	499.8	434.9
85°	41.8	46.0	123.4	144.3	246.7	177.7	117.1	184.0	209.1	186.1	135.9
87.5°	4.2	6.3	37.6	27.2	29.3	35.5	16.7	35.5	29.3	29.3	20.9
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°	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6	4811.6
2.5°	4843.0	4811.6	4732.1	4640.1	4518.9	4460.3	4380.8	4326.5	4280.5	4284.7	4242.8
5°	4937.1	4857.6	4679.9	4458.2	4182.2	3985.6	3776.5	3632.2	3515.1	3490.0	3433.6
7.5°	5066.7	4941.3	4629.7	4230.3	3764.0	3410.6	3094.8	2892.0	2747.7	2701.7	2655.7
10°	5234.0	5052.1	4564.9	3943.8	3272.6	2823.0	2484.2	2325.3	2227.0	2193.6	2168.5
12.5°	5428.5	5179.6	4479.1	3594.6	2766.5	2333.7	2118.3	2038.8	2007.5	1997.0	1990.7
15°	5673.1	5338.6	4349.5	3180.6	2337.8	2034.6	1942.6	1932.2	1936.4	1932.2	1930.1
17.5°	5963.8	5512.1	4138.3	2754.0	2049.3	1882.0	1848.5	1856.9	1867.3	1865.3	1861.1
20°	6281.6	5683.6	3868.5	2375.5	1852.7	1773.2	1754.4	1762.8	1771.2	1767.0	1764.9
22.5°	6643.4	5867.6	3569.5	2080.6	1721.0	1672.9	1652.0	1654.1	1654.1	1645.7	1641.5
25°	7076.3	6070.4	3255.8	1871.5	1620.6	1583.0	1557.9	1549.5	1537.0	1511.9	1507.7
27.5°	7592.8	6285.8	2954.7	1725.2	1541.1	1505.6	1476.3	1455.4	1424.0	1382.2	1378.0
30°	8174.1	6547.2	2699.6	1633.1	1478.4	1442.9	1409.4	1378.0	1332.0	1279.7	1275.6
32.5°	8857.9	6827.4	2513.5	1572.5	1421.9	1384.3	1344.6	1306.9	1256.7	1204.5	1206.6
35°	9673.4	7166.2	2404.8	1530.7	1378.0	1327.8	1283.9	1242.1	1204.5	1158.5	1154.3
37.5°	10557.9	7525.8	2371.3	1509.8	1348.8	1271.4	1221.2	1191.9	1187.7	1160.6	1158.5
40°	11526.1	7952.4	2396.4	1497.2	1317.4	1217.0	1162.6	1156.4	1166.8	1118.7	1120.8
42.5°	12550.7	8458.5	2438.2	1482.6	1273.5	1162.6	1110.4	1110.4	1102.0	1035.1	1035.1
45°	13659.0	9041.9	2480.0	1447.0	1221.2	1108.3	1068.5	1053.9	1018.4	953.5	951.4
47.5°	14775.7	9635.8	2511.4	1382.2	1158.5	1062.3	1026.7	993.3	941.0	882.4	880.4
50°	15835.9	10169.0	2477.9	1286.0	1087.4	1018.4	980.7	934.7	878.3	838.5	832.3
52.5°	16783.1	10631.1	2335.8	1173.1	1012.1	972.4	938.9	890.8	844.8	803.0	798.8
55°	17607.0	11005.4	2084.8	1066.5	945.2	932.6	899.2	838.5	775.8	740.2	736.1
57.5°	18397.4	11289.8	1771.2	978.6	884.5	888.7	838.5	784.2	725.6	688.0	683.8
60°	19449.3	11670.4	1453.3	897.1	819.7	832.3	777.9	738.2	665.0	616.9	610.6
62.5°	21130.5	12262.2	1154.3	796.7	744.4	748.6	725.6	677.5	589.7	533.2	529.0
65°	22464.6	12044.7	909.6	688.0	658.7	665.0	665.0	612.7	518.6	453.8	447.5
67.5°	22314.1	10313.3	725.6	581.3	577.1	581.3	596.0	552.0	460.0	407.8	399.4
70°	20555.5	8203.4	581.3	483.0	501.9	491.4	533.2	504.0	414.0	361.8	355.5
72.5°	16772.7	5909.4	443.3	399.4	384.8	401.5	481.0	453.8	345.0	286.5	280.2
75°	9801.0	3153.4	330.4	315.8	278.1	334.6	426.6	386.9	263.5	211.2	204.9
77.5°	3191.0	1099.9	242.6	232.1	207.0	269.8	363.9	326.2	215.4	167.3	161.0
80°	855.3	332.5	165.2	152.6	133.8	200.7	288.6	259.3	154.7	108.7	106.6
82.5°	342.9	140.1	96.2	85.7	73.2	138.0	227.9	209.1	115.0	69.0	69.0
85°	110.8	46.0	35.5	27.2	33.5	85.7	135.9	142.2	81.6	35.5	27.2
87.5°	14.6	6.3	6.3	8.4	6.3	14.6	41.8	39.7	23.0	4.2	0.0
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)