

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: P883986

Luminaire Tested: **NVN-SB4C-830-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P883986  
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-SB4C-830-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

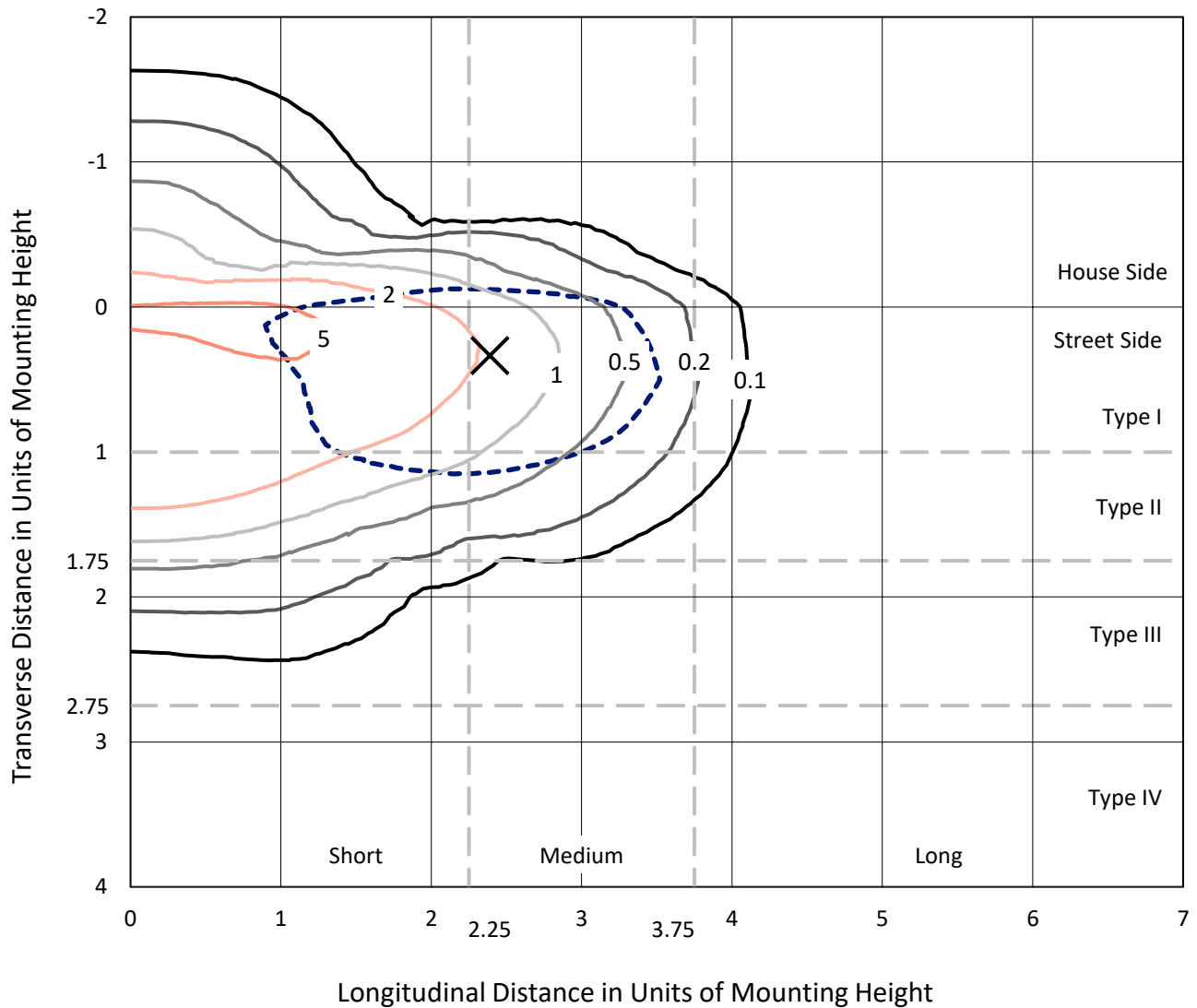
Lumens per Lamp: N/A  
Luminaire Lumens: 19392 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 200.7  
Input Voltage (V): 120.0  
Input Current (Ain): 1.714  
Voltage Rise (V): NR  
Power Factor: 0.994  
Total Harmonic Distortion (THDi): 9.472  
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

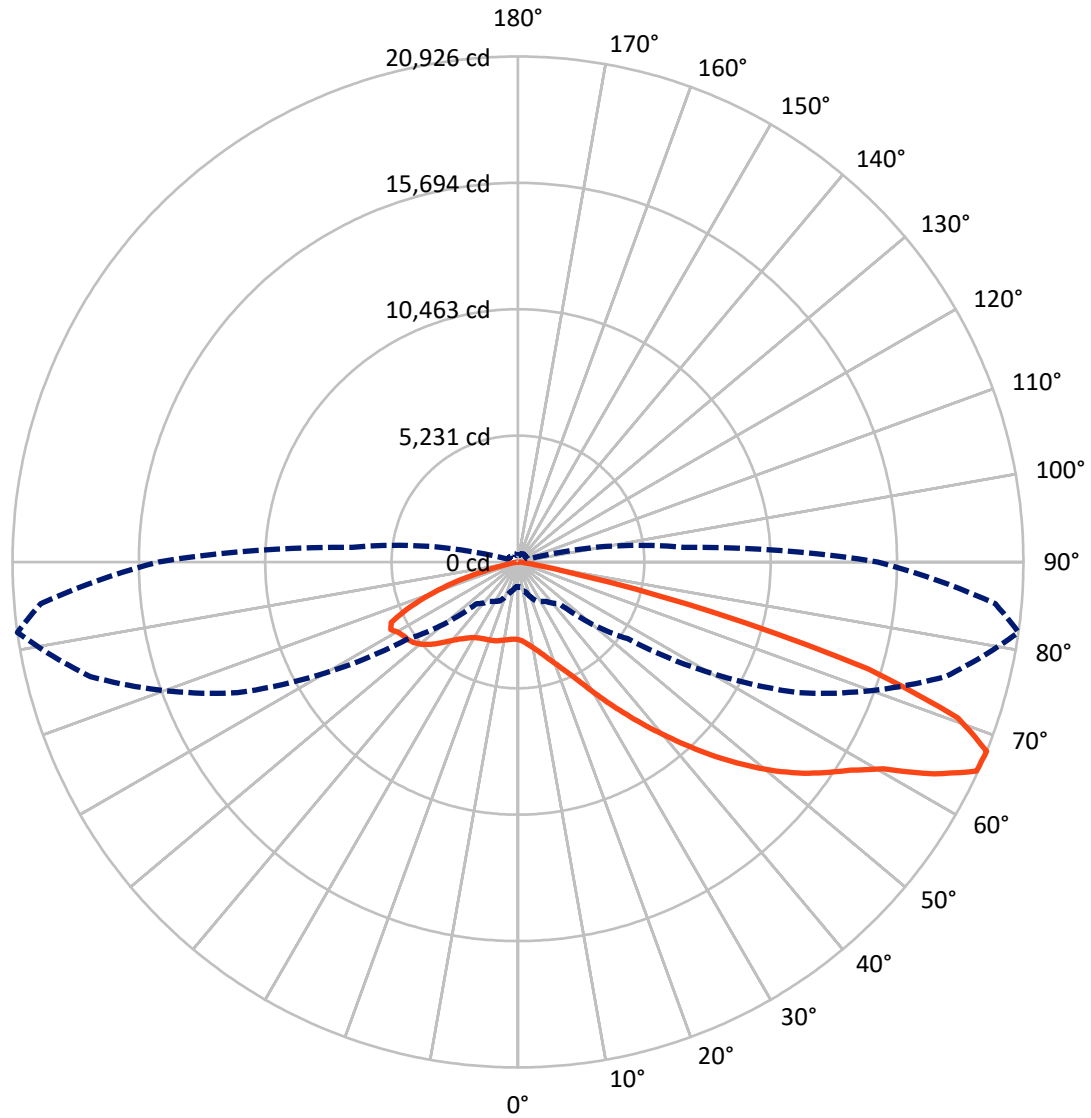
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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
<b>House Side</b>	Lumens	3512.7	0.0	3512.7
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	15879.3	0.0	15879.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	19392.0	0.0	19392.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.2	1.5
10°-20°	743.8	3.8
20°-30°	1191.3	6.1
30°-40°	2106.5	10.9
40°-50°	3690.9	19.0
50°-60°	4922.6	25.4
60°-70°	4582.7	23.6
70°-80°	1758.8	9.1
80°-90°	109.2	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°	19392.0	100.0
0°-180°	19392.0	100.0

**Coefficient of Utilization**



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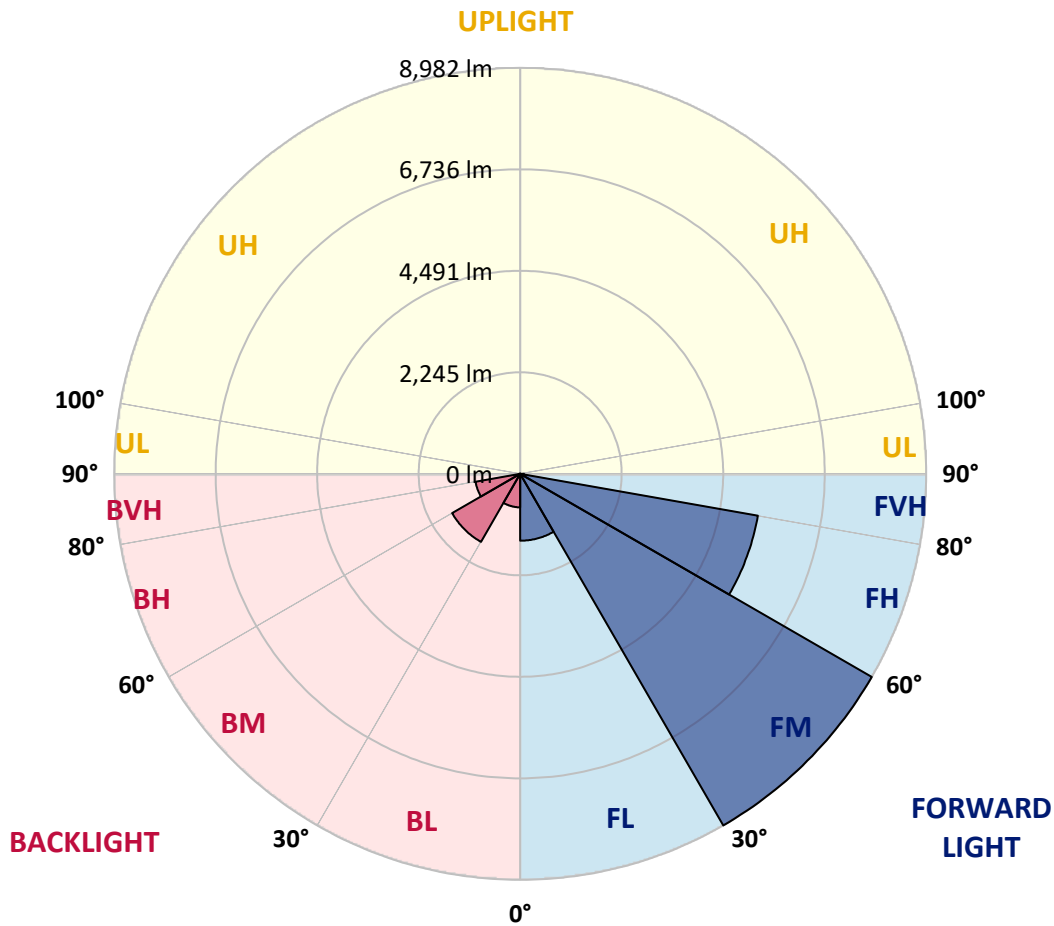
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.4	7.6			
FM (30°-60°)	8981.6	46.3			
FH (60°-80°)	5338.9	27.5			G3/7500
FVH (80°-90°)	79.4	0.4			G1/100
BL (0°-30°)	741.9	3.8	B2/1000		
BM (30°-60°)	1738.4	9.0	B2/2500		
BH (60°-80°)	1002.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	29.8	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-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3395.5	3415.0	3403.9	3398.3	3388.5	3374.6	3363.4	3328.5	3292.2	3268.4	3260.1
5°	3463.9	3483.5	3482.1	3487.6	3494.6	3498.8	3496.0	3456.9	3405.3	3364.8	3341.0
7.5°	3405.3	3427.6	3445.8	3473.7	3522.5	3574.2	3599.3	3591.0	3537.9	3482.1	3452.7
10°	3239.1	3262.9	3306.1	3371.8	3475.1	3586.8	3680.3	3723.6	3690.1	3628.7	3588.2
12.5°	2934.8	2958.5	3043.7	3186.1	3359.2	3553.3	3732.0	3847.9	3856.2	3794.8	3747.3
15°	2592.7	2616.4	2707.2	2885.9	3149.8	3461.1	3759.9	3979.1	4053.1	4000.0	3942.8
17.5°	2380.5	2401.4	2469.8	2613.6	2888.7	3276.8	3750.1	4118.7	4287.7	4245.8	4177.4
20°	2316.3	2334.4	2366.5	2467.0	2696.0	3085.5	3685.9	4250.0	4540.4	4516.6	4439.8
22.5°	2384.7	2401.4	2411.2	2455.9	2599.7	2959.9	3604.9	4384.0	4833.6	4836.3	4742.8
25°	2542.4	2559.2	2548.0	2575.9	2638.8	2920.8	3574.2	4541.8	5202.1	5232.9	5126.8
27.5°	2802.1	2803.5	2777.0	2775.6	2785.4	2979.4	3606.3	4710.7	5667.1	5724.3	5593.1
30°	3322.9	3302.0	3200.0	3089.7	3039.5	3155.4	3695.7	4910.3	6215.8	6317.7	6152.9
32.5°	4125.7	4095.0	3907.9	3644.0	3378.7	3438.8	3856.2	5137.9	6813.3	6997.6	6796.6
35°	4996.9	4988.5	4793.1	4400.7	3937.2	3842.3	4117.3	5436.7	7465.3	7758.5	7519.8
37.5°	5806.7	5802.5	5690.8	5228.7	4664.6	4404.9	4536.2	5827.6	8163.4	8587.9	8305.8
40°	6546.7	6559.2	6447.5	6034.3	5466.0	5126.8	5105.8	6310.7	8939.7	9491.2	9156.1
42.5°	7186.1	7200.1	7087.0	6781.2	6257.7	5925.4	5805.3	6902.7	9697.8	10461.5	10065.0
45°	7620.3	7706.9	7690.1	7445.8	7070.2	6725.4	6645.8	7645.5	10562.1	11490.5	11025.6
47.5°	7743.2	7822.8	7948.4	7981.9	7753.0	7413.7	7508.6	8540.4	11436.1	12520.9	11991.7
50°	7440.2	7514.2	7775.3	8122.9	8282.1	8177.4	8347.7	9499.6	12331.0	13548.5	12939.7
52.5°	6842.7	6918.0	7247.5	7797.6	8446.9	8776.4	9189.6	10444.8	13198.0	14521.6	13837.5
55°	5978.4	6058.0	6481.0	7103.7	8132.7	9023.5	9891.9	11388.6	13992.5	15397.0	14647.3
57.5°	4802.8	4861.5	5301.3	6172.5	7342.5	8777.8	10409.9	12419.0	14740.8	16257.1	15450.1
60°	3130.2	3181.9	3692.9	4664.6	6032.9	7956.8	10513.2	13568.0	15734.9	17375.4	16532.1
62.5°	2081.7	2116.6	2419.6	3133.0	4248.6	6380.5	9908.7	14485.3	17192.5	19321.7	18387.6
65°	1428.3	1463.2	1766.2	2263.2	2744.9	4220.6	8170.4	14363.8	18513.3	20867.2	19762.9
67.5°	1019.2	1048.5	1305.4	1774.5	1986.8	2451.7	5538.6	12811.3	18323.4	20925.9	19836.9
70°	730.2	747.0	959.2	1382.2	1579.1	1473.0	3080.0	9798.4	16043.4	19323.1	18326.2
72.5°	511.0	516.6	666.0	1052.7	1271.9	1075.1	1466.0	6532.7	12134.2	15166.6	14207.5
75°	346.3	353.2	448.2	772.1	1020.6	821.0	776.3	3503.0	7123.3	8395.2	7525.4
77.5°	212.2	215.0	289.0	527.8	763.7	625.5	499.8	1484.1	2756.0	2705.8	2306.5
80°	120.1	120.1	184.3	328.1	520.8	403.5	350.4	631.1	872.6	766.5	675.7
82.5°	67.0	68.4	134.0	203.8	344.9	238.7	192.7	291.8	377.0	333.7	290.4
85°	27.9	30.7	82.4	96.3	164.7	118.7	78.2	122.9	139.6	124.3	90.8
87.5°	2.8	4.2	25.1	18.2	19.5	23.7	11.2	23.7	19.5	19.5	14.0
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°	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3233.5	3212.6	3159.5	3098.1	3017.1	2978.0	2925.0	2888.7	2858.0	2860.8	2832.8
5°	3296.4	3243.3	3124.6	2976.6	2792.3	2661.1	2521.5	2425.2	2347.0	2330.2	2292.5
7.5°	3382.9	3299.2	3091.1	2824.5	2513.1	2277.2	2066.3	1930.9	1834.6	1803.9	1773.1
10°	3494.6	3373.2	3047.8	2633.2	2185.0	1884.8	1658.7	1552.5	1486.9	1464.6	1447.8
12.5°	3624.5	3458.3	2990.6	2400.0	1847.1	1558.1	1414.3	1361.3	1340.3	1333.3	1329.2
15°	3787.8	3564.4	2904.0	2123.6	1560.9	1358.5	1297.0	1290.1	1292.9	1290.1	1288.7
17.5°	3981.9	3680.3	2763.0	1838.8	1368.3	1256.6	1234.2	1239.8	1246.8	1245.4	1242.6
20°	4194.1	3794.8	2582.9	1586.1	1237.0	1184.0	1171.4	1177.0	1182.6	1179.8	1178.4
22.5°	4435.6	3917.7	2383.3	1389.2	1149.1	1116.9	1103.0	1104.4	1104.4	1098.8	1096.0
25°	4724.7	4053.1	2173.8	1249.6	1082.0	1056.9	1040.2	1034.6	1026.2	1009.4	1006.6
27.5°	5069.5	4196.9	1972.8	1151.8	1029.0	1005.2	985.7	971.7	950.8	922.9	920.1
30°	5457.6	4371.4	1802.5	1090.4	987.1	963.4	941.0	920.1	889.4	854.5	851.7
32.5°	5914.2	4558.5	1678.2	1049.9	949.4	924.3	897.7	872.6	839.1	804.2	805.6
35°	6458.7	4784.7	1605.6	1022.0	920.1	886.6	857.3	829.3	804.2	773.5	770.7
37.5°	7049.3	5024.8	1583.3	1008.0	900.5	848.9	815.4	795.8	793.0	774.9	773.5
40°	7695.7	5309.7	1600.0	999.7	879.6	812.6	776.3	772.1	779.1	747.0	748.3
42.5°	8379.8	5647.5	1627.9	989.9	850.3	776.3	741.4	741.4	735.8	691.1	691.1
45°	9119.8	6037.1	1655.9	966.2	815.4	740.0	713.4	703.7	679.9	636.7	635.3
47.5°	9865.4	6433.6	1676.8	922.9	773.5	709.3	685.5	663.2	628.3	589.2	587.8
50°	10573.2	6789.6	1654.5	858.6	726.0	679.9	654.8	624.1	586.4	559.9	555.7
52.5°	11205.7	7098.2	1559.5	783.3	675.7	649.2	626.9	594.8	564.1	536.1	533.3
55°	11755.8	7348.1	1392.0	712.0	631.1	622.7	600.4	559.9	518.0	494.2	491.5
57.5°	12283.5	7537.9	1182.6	653.4	590.6	593.4	559.9	523.6	484.5	459.3	456.5
60°	12985.8	7792.1	970.3	599.0	547.3	555.7	519.4	492.8	444.0	411.9	407.7
62.5°	14108.3	8187.2	770.7	531.9	497.0	499.8	484.5	452.4	393.7	356.0	353.2
65°	14999.1	8042.0	607.3	459.3	439.8	444.0	444.0	409.1	346.3	303.0	298.8
67.5°	14898.6	6885.9	484.5	388.1	385.3	388.1	397.9	368.6	307.2	272.3	266.7
70°	13724.4	5477.2	388.1	322.5	335.1	328.1	356.0	336.5	276.4	241.5	237.3
72.5°	11198.7	3945.6	296.0	266.7	256.9	268.1	321.1	303.0	230.4	191.3	187.1
75°	6543.9	2105.4	220.6	210.8	185.7	223.4	284.8	258.3	175.9	141.0	136.8
77.5°	2130.6	734.4	162.0	155.0	138.2	180.1	242.9	217.8	143.8	111.7	107.5
80°	571.0	222.0	110.3	101.9	89.4	134.0	192.7	173.1	103.3	72.6	71.2
82.5°	229.0	93.5	64.2	57.2	48.9	92.1	152.2	139.6	76.8	46.1	46.1
85°	74.0	30.7	23.7	18.2	22.3	57.2	90.8	94.9	54.5	23.7	18.2
87.5°	9.8	4.2	4.2	5.6	4.2	9.8	27.9	26.5	15.4	2.8	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)