

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: LUMARK

Report Number: P885340

Luminaire Tested: **NAV-SB6C-827-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885340  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6C-827-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

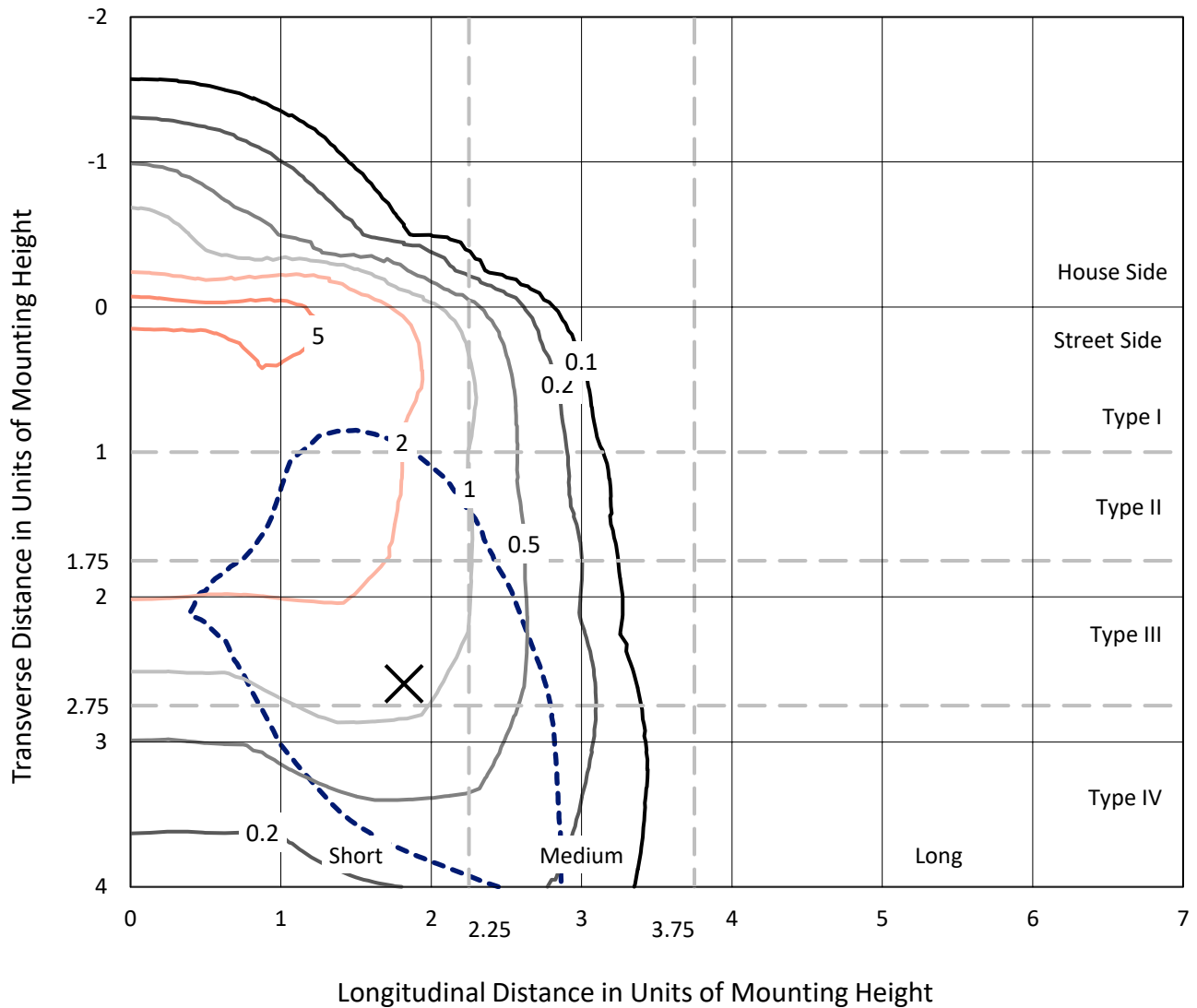
Lumens per Lamp: N/A  
Luminaire Lumens: 27964 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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



REPORT NUMBER: P885340  
 CATALOG NUMBER: NAV-SB6C-827-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

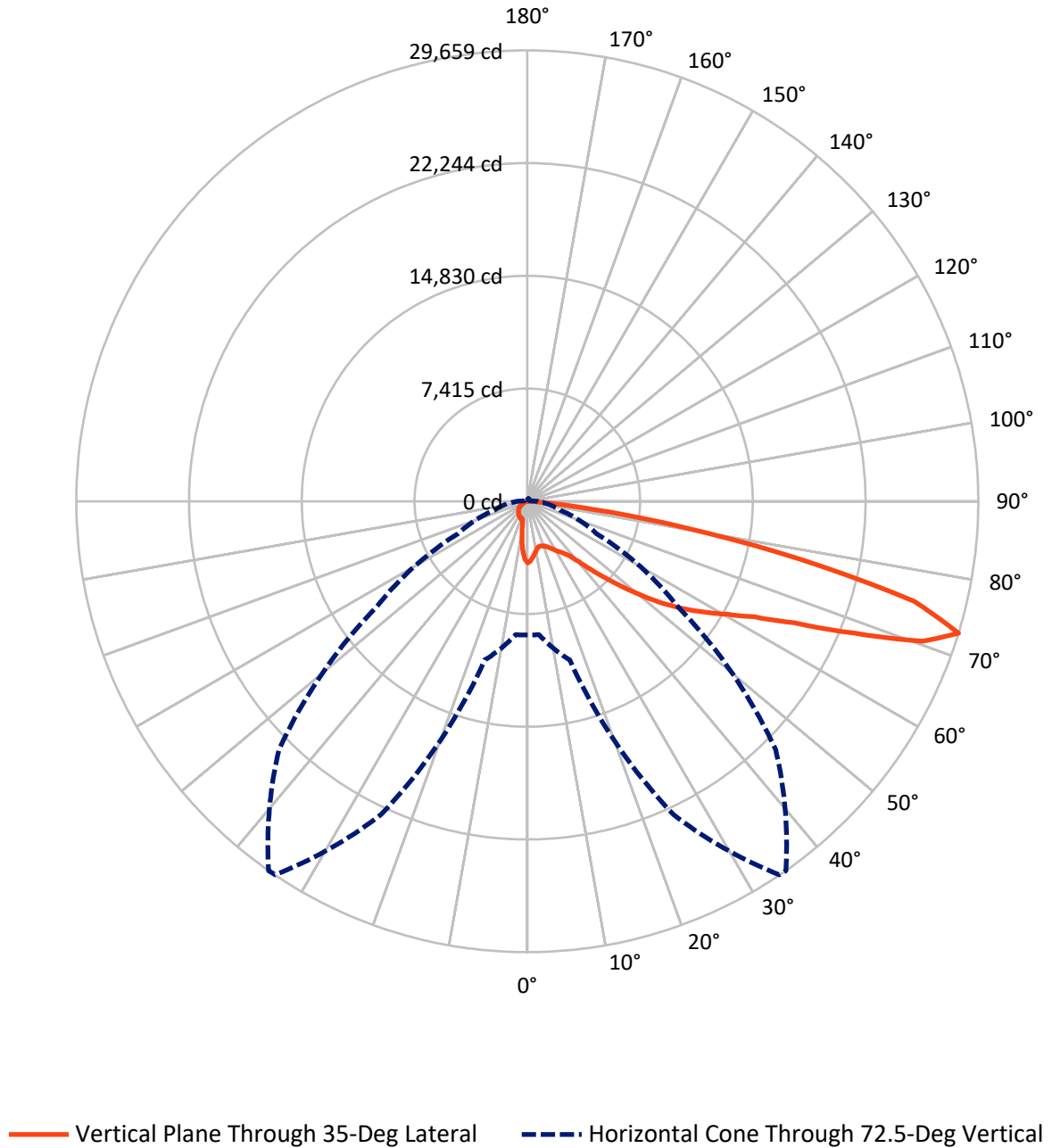
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P885340  
CATALOG NUMBER: NAV-SB6C-827-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P885340  
 CATALOG NUMBER: NAV-SB6C-827-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3147.2	0.0	3147.2
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	24816.8	0.0	24816.8
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	27964.0	0.0	27964.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.0	1.2
10°-20°	779.1	2.8
20°-30°	1265.6	4.5
30°-40°	2111.7	7.6
40°-50°	3995.4	14.3
50°-60°	6348.7	22.7
60°-70°	7853.8	28.1
70°-80°	4882.0	17.5
80°-90°	394.5	1.4
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°	27964.0	100.0
0°-180°	27964.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P885340

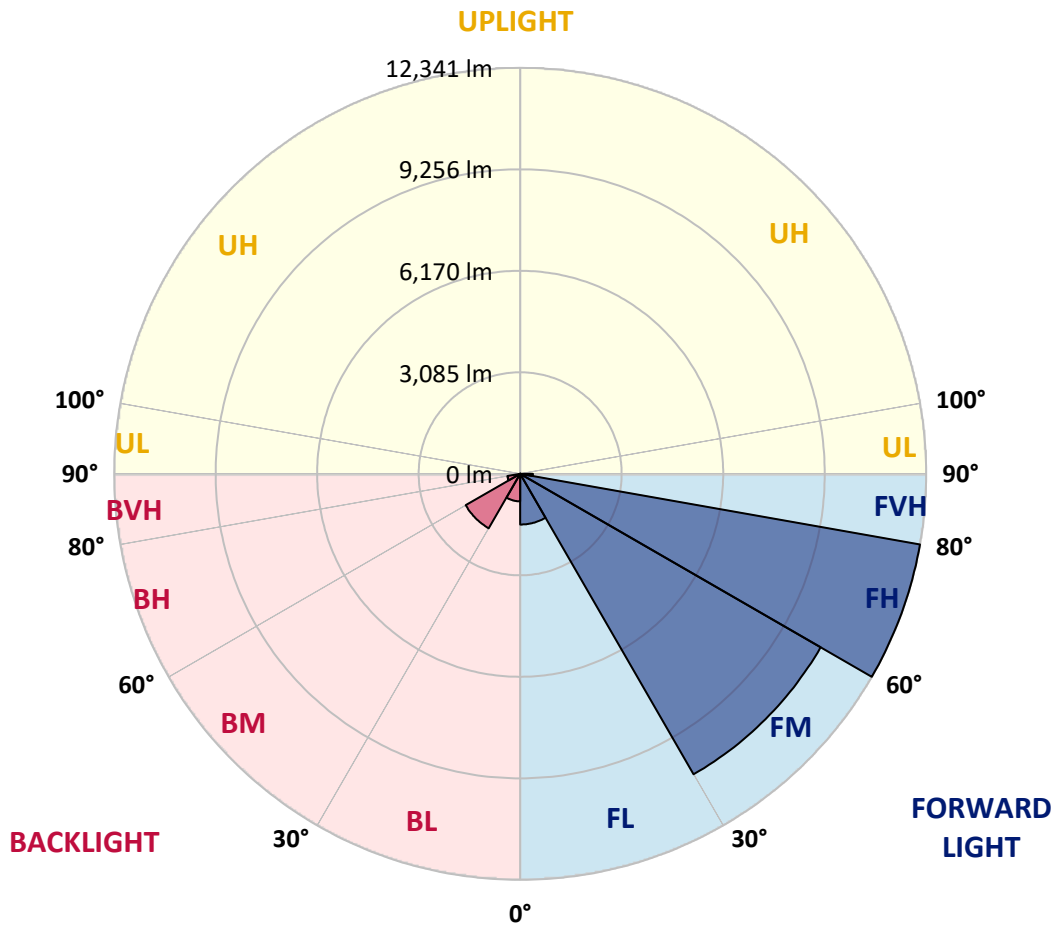
CATALOG NUMBER: NAV-SB6C-827-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.5	5.5			
FM (30°-60°)	10545.2	37.7			
FH (60°-80°)	12340.9	44.1			G5
FVH (80°-90°)	389.2	1.4			G3/500
BL (0°-30°)	836.3	3.0	B2/1000		
BM (30°-60°)	1910.6	6.8	B2/2500		
BH (60°-80°)	394.9	1.4	B1/500		G1/500
BVH (80°-90°)	5.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



REPORT NUMBER: P885340  
 CATALOG NUMBER: NAV-SB6C-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9
2.5°	3872.6	3905.4	3911.5	3921.8	3921.8	3934.1	3954.6	3983.3	4030.4	4055.0	4071.4
5°	3569.4	3593.9	3624.7	3649.3	3696.4	3702.5	3782.5	3860.3	3968.9	4050.9	4108.2
7.5°	3264.1	3292.7	3333.7	3393.1	3454.6	3473.1	3593.9	3725.1	3897.2	4050.9	4147.2
10°	3048.9	3051.0	3087.8	3147.3	3245.6	3268.2	3415.7	3602.1	3817.3	4026.3	4184.1
12.5°	2928.0	2942.4	2958.8	3003.8	3098.1	3112.4	3270.2	3489.4	3737.4	4011.9	4227.1
15°	2928.0	2938.3	2948.5	2971.0	3046.9	3059.2	3198.5	3417.7	3696.4	4018.1	4296.8
17.5°	2958.8	2975.1	2967.0	2993.6	3073.5	3081.7	3204.6	3397.2	3694.3	4057.0	4403.3
20°	3032.5	3044.8	3028.4	3044.8	3124.7	3141.1	3268.2	3436.2	3729.2	4124.6	4536.5
22.5°	3149.3	3155.5	3116.5	3128.8	3210.8	3231.3	3378.8	3546.8	3813.2	4233.2	4714.7
25°	3296.8	3309.1	3249.7	3264.1	3341.9	3366.5	3536.6	3712.8	3946.4	4382.8	4942.2
27.5°	3466.9	3473.1	3421.8	3419.8	3520.2	3555.0	3727.1	3917.7	4124.6	4571.3	5229.0
30°	3661.6	3680.0	3630.8	3622.6	3749.7	3778.4	3948.4	4169.7	4386.9	4854.1	5636.8
32.5°	3815.2	3829.6	3800.9	3821.4	3950.5	3973.0	4216.8	4526.2	4798.8	5255.7	6192.1
35°	4036.5	4044.7	3979.2	4016.0	4163.6	4220.9	4583.6	5026.2	5317.2	5759.7	6917.4
37.5°	4837.7	4837.7	4559.0	4376.7	4518.0	4569.3	5085.6	5655.2	5956.4	6435.9	7831.3
40°	5946.2	5927.8	5520.0	5147.1	5128.6	5229.0	5800.7	6448.2	6782.2	7247.3	8859.9
42.5°	7128.5	7099.8	6544.5	6175.7	6114.2	6149.0	6626.5	7425.6	7765.7	8237.0	9966.3
45°	8177.6	8169.4	7661.2	7165.4	7054.7	7165.4	7657.1	8568.9	8812.7	9308.6	11070.7
47.5°	9056.6	9056.6	8685.7	8362.0	8304.6	8370.2	9052.5	9837.2	9814.7	10449.9	12146.5
50°	10068.8	10060.6	9708.2	9568.8	9628.2	9720.5	10658.9	11173.2	10851.5	11570.7	13107.5
52.5°	10777.7	10826.9	10706.0	10683.5	10986.7	11146.6	12289.9	12480.5	11779.7	12634.1	13826.6
55°	11339.2	11396.5	11535.9	11693.6	12277.6	12486.6	13869.7	13720.1	12556.3	13556.2	14240.5
57.5°	12134.2	12052.2	12267.4	12578.8	13523.4	13775.4	15400.3	14890.1	13181.2	14304.1	14285.6
60°	13099.3	13111.5	13148.4	13541.8	14767.1	15090.9	16908.3	15996.5	13582.8	14763.0	13785.7
62.5°	14259.0	14277.4	14353.2	14957.7	16437.1	16742.4	18514.8	16902.2	13767.2	14634.0	12494.8
65°	14179.1	14256.9	15103.2	17170.6	18975.8	19277.0	20389.6	17537.4	13488.6	13453.7	10173.3
67.5°	12916.9	13043.9	14459.8	19813.8	22803.3	23139.4	22655.8	17662.4	12285.8	10462.2	6636.7
70°	11261.3	11306.4	13009.1	22190.7	27235.3	27575.4	24684.3	16287.5	9322.9	5835.6	2973.1
72.5°	8794.3	8804.6	10802.3	22741.8	29640.8	29659.3	23092.2	12091.1	5013.9	2241.6	1032.7
75°	6282.2	6220.8	7235.0	18443.0	26077.6	26286.6	17312.0	5671.6	1915.8	1059.3	514.3
77.5°	3368.6	3436.2	4093.9	10937.6	18014.8	18371.3	9445.9	1635.1	975.3	721.2	340.1
80°	1040.9	1098.3	1678.1	5007.8	10204.0	10419.2	3501.7	727.4	680.3	514.3	223.3
82.5°	327.8	340.1	782.7	2104.3	4235.3	4333.6	1014.3	411.8	465.1	340.1	131.1
85°	94.3	96.3	348.3	784.8	1047.0	1067.5	284.8	159.8	266.4	211.0	67.6
87.5°	10.2	32.8	131.1	131.1	92.2	90.2	30.7	34.8	75.8	26.6	12.3
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: P885340  
 CATALOG NUMBER: NAV-SB6C-827-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9	4052.9
2.5°	4061.1	4063.2	4036.5	3991.5	3942.3	3901.3	3850.1	3809.1	3780.4	3772.2	3786.6
5°	4089.8	4075.5	3999.6	3862.4	3698.4	3557.1	3399.3	3274.3	3192.3	3157.5	3169.8
7.5°	4132.8	4091.9	3925.9	3655.4	3341.9	3063.3	2780.5	2561.2	2421.9	2352.3	2362.5
10°	4169.7	4087.8	3802.9	3356.3	2876.8	2454.7	2073.6	1809.3	1661.7	1592.1	1594.1
12.5°	4204.5	4085.7	3643.1	3001.8	2352.3	1835.9	1481.4	1350.3	1309.3	1295.0	1290.9
15°	4270.1	4091.9	3442.3	2596.1	1829.8	1387.2	1258.1	1256.0	1264.2	1260.1	1258.1
17.5°	4360.3	4098.0	3214.9	2165.8	1411.8	1223.3	1217.1	1235.5	1247.8	1241.7	1239.6
20°	4477.1	4122.6	2973.1	1739.6	1213.0	1182.3	1196.6	1213.0	1223.3	1213.0	1211.0
22.5°	4641.0	4165.6	2708.8	1397.4	1149.5	1157.7	1170.0	1188.4	1198.7	1184.3	1182.3
25°	4841.8	4233.2	2448.6	1215.1	1118.8	1129.0	1147.4	1167.9	1180.2	1165.9	1163.8
27.5°	5102.0	4341.8	2208.8	1174.1	1088.0	1094.2	1120.8	1151.5	1167.9	1149.5	1149.5
30°	5479.0	4520.1	2001.9	1192.5	1069.6	1055.2	1092.1	1135.1	1153.6	1137.2	1135.1
32.5°	5979.0	4772.1	1874.8	1221.2	1061.4	1010.2	1045.0	1100.3	1131.0	1120.8	1120.8
35°	6634.7	5155.3	1825.7	1254.0	1055.2	963.0	987.6	1047.0	1100.3	1110.6	1110.6
37.5°	7429.7	5688.0	1840.0	1268.3	1036.8	924.1	936.4	987.6	1057.3	1090.1	1098.3
40°	8333.3	6308.9	1922.0	1254.0	1016.3	891.3	893.4	932.3	993.8	1042.9	1059.3
42.5°	9265.6	7034.2	2073.6	1200.7	997.9	862.6	856.5	883.1	924.1	958.9	973.3
45°	10152.8	7780.1	2223.2	1126.9	975.3	833.9	819.6	829.8	838.0	852.4	860.6
47.5°	10927.3	8304.6	2180.1	1059.3	944.6	801.2	776.6	772.5	747.9	745.8	743.8
50°	11462.1	8419.3	1936.3	991.7	899.5	764.3	725.3	700.8	657.7	637.2	639.3
52.5°	11632.2	7966.5	1581.8	924.1	825.7	715.1	659.8	620.8	567.6	549.1	547.1
55°	11406.8	7079.3	1264.2	842.1	723.3	649.5	588.1	536.8	493.8	471.3	471.3
57.5°	10855.6	5950.3	999.9	745.8	614.7	575.8	514.3	463.1	426.2	403.7	399.6
60°	9941.7	4725.0	790.9	631.1	524.5	495.9	432.3	399.6	366.8	340.1	334.0
62.5°	8554.6	3372.7	620.8	500.0	438.5	405.7	368.8	344.2	305.3	268.4	262.3
65°	6675.6	2063.3	479.5	366.8	352.4	336.0	313.5	291.0	243.8	206.9	200.8
67.5°	4210.7	977.4	342.2	276.6	278.7	270.5	260.2	241.8	206.9	174.2	170.1
70°	1854.3	473.3	225.4	211.0	206.9	206.9	215.1	209.0	176.2	145.5	139.3
72.5°	631.1	254.1	168.0	159.8	149.6	147.5	180.3	174.2	141.4	112.7	106.5
75°	329.9	170.1	122.9	114.7	90.2	108.6	143.4	135.2	100.4	73.8	67.6
77.5°	215.1	120.9	84.0	73.8	51.2	71.7	106.5	94.3	59.4	36.9	32.8
80°	135.2	79.9	49.2	34.8	24.6	38.9	57.4	41.0	22.5	8.2	6.1
82.5°	71.7	41.0	18.4	12.3	10.2	12.3	14.3	10.2	4.1	0.0	0.0
85°	28.7	14.3	6.1	4.1	2.0	0.0	4.1	2.0	0.0	0.0	0.0
87.5°	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)