

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: P883929

Luminaire Tested: **NAV-SB4C-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29897 lumens
Efficiency: N/A
Efficacy: 149.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

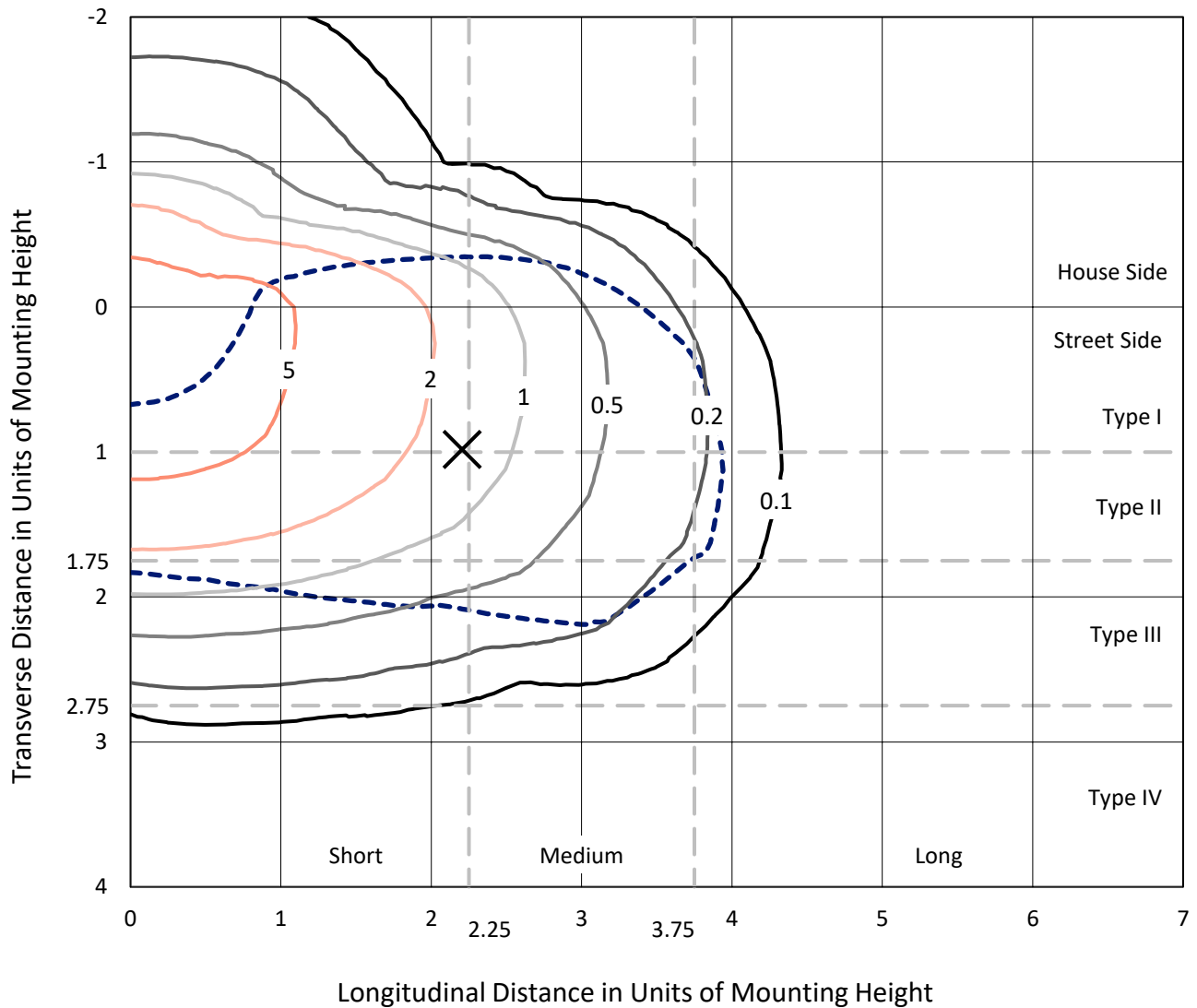
Input Watts (W): 200.7
Input Voltage (V): 120.0
Input Current (Ain): 1.714
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883929
 CATALOG NUMBER: NAV-SB4C-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

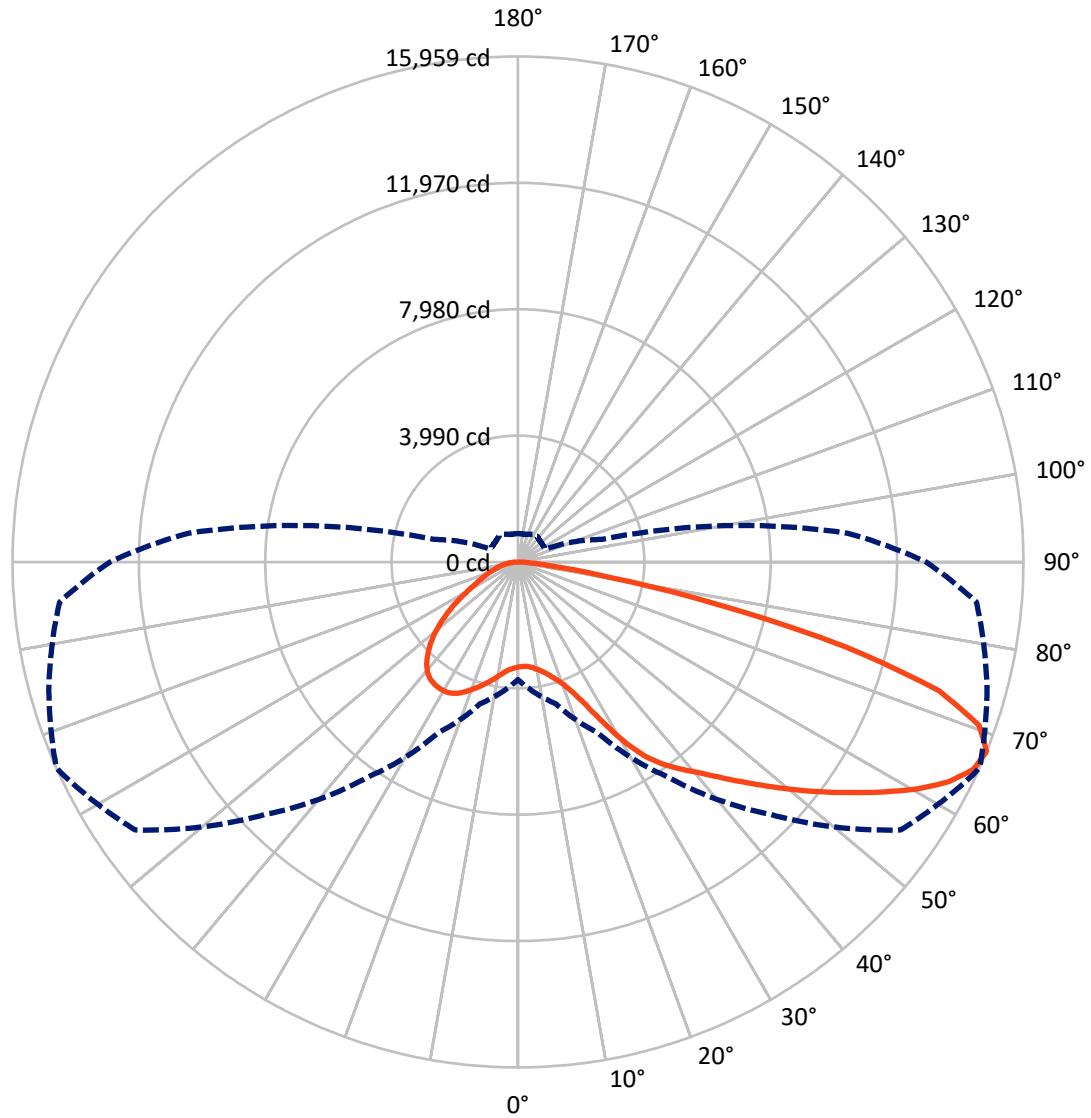
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

REPORT NUMBER: P883929
CATALOG NUMBER: NAV-SB4C-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P883929
 CATALOG NUMBER: NAV-SB4C-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7433.8	0.0	7433.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22463.2	0.0	22463.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	29897.0	0.0	29897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	1.1
10°-20°	1086.2	3.6
20°-30°	2093.6	7.0
30°-40°	3670.8	12.3
40°-50°	5457.3	18.3
50°-60°	6917.7	23.1
60°-70°	6768.8	22.6
70°-80°	3228.8	10.8
80°-90°	345.1	1.2
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°	29897.0	100.0
0°-180°	29897.0	100.0

Coefficient of Utilization



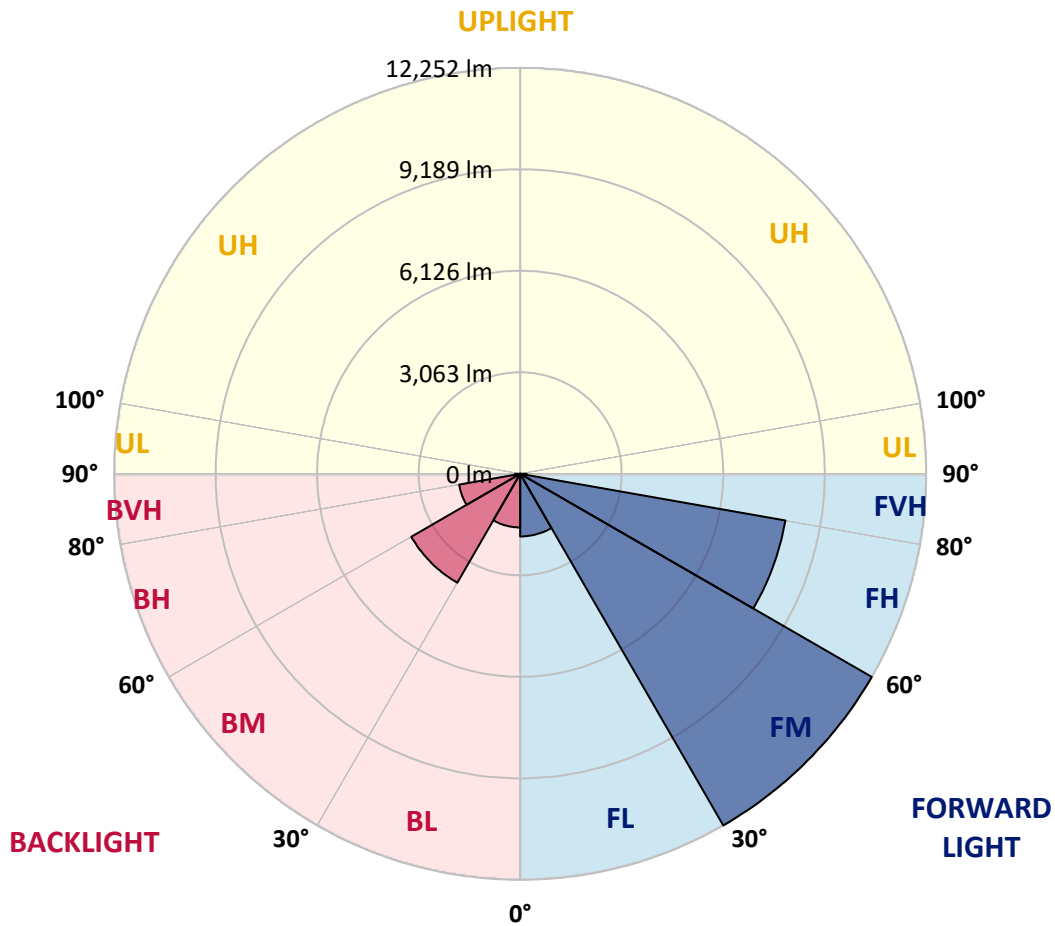
REPORT NUMBER: P883929
 CATALOG NUMBER: NAV-SB4C-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1889.2	6.3			
FM (30°-60°)	12251.5	41.0			
FH (60°-80°)	8126.8	27.2			G4/12000
FVH (80°-90°)	195.6	0.7			G2/225
BL (0°-30°)	1619.3	5.4	B3/2500		
BM (30°-60°)	3794.3	12.7	B3/5000		
BH (60°-80°)	1870.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	149.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P883929
 CATALOG NUMBER: NAV-SB4C-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0
2.5°	3281.4	3300.3	3295.6	3287.7	3286.1	3289.3	3294.0	3298.7	3297.1	3305.0	3317.5
5°	3272.0	3290.8	3289.3	3289.3	3295.6	3308.1	3316.0	3323.8	3316.0	3325.4	3342.7
7.5°	3278.3	3292.4	3298.7	3305.0	3320.7	3344.2	3363.1	3380.4	3371.0	3381.9	3403.9
10°	3358.4	3369.4	3375.7	3375.7	3386.7	3413.4	3432.2	3463.6	3455.8	3473.1	3501.3
12.5°	3504.5	3515.5	3515.5	3509.2	3517.0	3534.3	3540.6	3575.2	3561.0	3589.3	3617.6
15°	3683.5	3705.5	3688.3	3677.3	3680.4	3697.7	3696.1	3722.8	3708.7	3732.2	3757.4
17.5°	3881.5	3909.7	3881.5	3879.9	3873.6	3892.5	3894.0	3917.6	3892.5	3909.7	3927.0
20°	4115.5	4154.8	4131.2	4139.1	4124.9	4132.8	4140.6	4175.2	4135.9	4148.5	4143.8
22.5°	4445.4	4492.5	4467.4	4497.2	4487.8	4481.5	4479.9	4541.2	4479.9	4484.7	4439.1
25°	4926.0	4982.6	4938.6	4979.5	4979.5	4999.9	5023.4	5102.0	4999.9	4970.0	4852.2
27.5°	5636.1	5692.6	5606.2	5631.3	5623.5	5673.8	5648.6	5843.4	5733.4	5684.7	5447.6
30°	6490.6	6591.1	6427.7	6421.5	6413.6	6493.7	6529.8	6658.6	6547.1	6498.4	6212.5
32.5°	7414.2	7519.5	7324.7	7268.1	7238.3	7287.0	7257.1	7360.8	7283.8	7208.4	6855.0
35°	8391.2	8494.9	8309.6	8199.6	8080.2	7978.1	7871.3	7898.0	7825.8	7711.1	7345.1
37.5°	9314.9	9504.9	9308.6	9190.8	8970.9	8771.4	8472.9	8348.8	8281.3	8176.0	7806.9
40°	10255.8	10364.2	10215.0	10114.4	9875.7	9563.1	9085.5	8823.2	8732.1	8630.0	8317.4
42.5°	10948.5	11052.2	10972.1	10903.0	10716.0	10353.2	9735.9	9407.6	9275.6	9160.9	8895.5
45°	11498.3	11575.3	11525.0	11550.1	11470.0	11118.2	10409.7	10034.3	9897.7	9757.8	9548.9
47.5°	11719.8	11801.5	11881.6	12030.8	12167.5	11908.3	11133.9	10712.9	10568.4	10425.4	10219.7
50°	11694.7	11777.9	12010.4	12327.7	12751.8	12665.4	11897.3	11435.5	11302.0	11138.6	10948.5
52.5°	11493.6	11587.8	11886.3	12414.1	13089.5	13232.5	12674.8	12181.6	12055.9	11861.2	11671.1
55°	10965.8	11022.3	11470.0	12217.7	13169.6	13628.3	13436.7	12976.4	12850.8	12579.0	12371.7
57.5°	9987.2	10068.9	10720.8	11688.4	12968.6	13896.9	14105.8	13812.1	13691.1	13300.0	13083.2
60°	8710.1	8840.5	9586.6	10799.3	12456.5	13895.4	14713.7	14633.6	14533.1	14010.0	13783.8
62.5°	7265.0	7415.8	8133.6	9542.6	11561.1	13501.1	15093.9	15321.6	15269.8	14665.0	14376.0
65°	5579.5	5683.2	6397.9	7916.9	10167.8	12654.4	15137.9	15791.3	15800.7	15163.0	14685.5
67.5°	3715.0	4013.4	4633.9	5940.8	8301.7	11270.5	14751.4	15868.3	15959.4	15334.2	14530.0
70°	1812.7	2205.4	2813.3	3861.0	5940.8	9148.4	13741.4	15236.8	15439.5	14834.7	13603.2
72.5°	752.4	879.7	1211.1	1905.4	3410.2	6173.3	11711.9	13524.6	13900.1	13144.5	11437.0
75°	507.4	549.8	692.7	977.0	1553.5	3044.2	8446.2	10084.6	10689.3	9927.5	8114.8
77.5°	391.1	417.8	504.2	683.3	923.6	1151.4	4520.8	6077.5	6390.0	5915.7	4222.3
80°	307.9	328.3	377.0	497.9	655.0	615.8	1541.0	2753.6	2934.3	2461.5	1357.2
82.5°	267.0	274.9	270.2	337.7	435.1	359.7	505.8	1016.3	1121.6	813.7	443.0
85°	193.2	215.2	224.6	208.9	230.9	182.2	207.3	359.7	395.8	353.4	249.8
87.5°	78.5	116.2	142.9	135.1	84.8	51.8	64.4	105.2	121.0	131.9	81.7
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: P883929
 CATALOG NUMBER: NAV-SB4C-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0	3316.0
2.5°	3319.1	3330.1	3338.0	3347.4	3353.7	3363.1	3381.9	3392.9	3394.5	3402.4	3400.8
5°	3349.0	3364.7	3381.9	3407.1	3435.4	3458.9	3495.0	3520.2	3529.6	3537.5	3535.9
7.5°	3413.4	3435.4	3466.8	3510.8	3551.6	3583.0	3627.0	3656.8	3686.7	3697.7	3699.2
10°	3509.2	3540.6	3586.2	3645.8	3689.8	3730.7	3776.2	3801.4	3831.2	3843.8	3850.0
12.5°	3628.6	3661.5	3721.2	3804.5	3845.3	3873.6	3889.3	3883.0	3889.3	3900.3	3903.5
15°	3765.2	3801.4	3868.9	3958.4	3986.7	3961.6	3927.0	3895.6	3890.9	3894.0	3905.0
17.5°	3927.0	3953.7	4032.3	4107.7	4087.2	3983.6	3908.2	3857.9	3832.8	3824.9	3835.9
20°	4153.2	4153.2	4217.6	4264.7	4128.1	3952.1	3834.3	3752.7	3700.8	3678.8	3674.1
22.5°	4428.1	4403.0	4443.8	4410.8	4120.2	3864.2	3700.8	3559.4	3480.9	3449.5	3444.8
25°	4776.8	4747.0	4736.0	4531.8	4063.7	3724.4	3458.9	3287.7	3218.6	3201.3	3204.4
27.5°	5303.0	5227.6	5084.7	4597.8	3960.0	3504.5	3176.2	3017.5	2978.2	2979.8	2984.5
30°	6003.6	5852.8	5502.5	4608.7	3790.4	3193.4	2887.1	2774.0	2755.2	2763.0	2789.8
32.5°	6652.4	6509.4	5929.8	4558.5	3529.6	2888.7	2628.0	2552.6	2524.3	2533.7	2546.3
35°	7161.3	7122.0	6325.6	4487.8	3209.2	2602.8	2395.5	2331.1	2276.1	2263.5	2273.0
37.5°	7642.0	7626.3	6622.5	4388.8	2891.9	2400.2	2208.6	2123.7	2043.6	1999.6	2001.2
40°	8169.8	8154.1	6817.3	4236.5	2610.7	2224.3	2040.5	1929.0	1830.0	1749.9	1757.7
42.5°	8763.5	8670.9	6910.0	4018.1	2371.9	2075.0	1903.8	1753.0	1622.6	1548.8	1553.5
45°	9412.3	9203.4	6908.4	3740.1	2170.9	1938.4	1757.7	1544.1	1423.2	1354.0	1350.9
47.5°	10100.3	9712.3	6823.6	3432.2	1976.1	1787.6	1531.5	1368.2	1288.1	1245.6	1236.2
50°	10810.3	10188.3	6679.1	3078.8	1776.6	1616.4	1390.2	1278.6	1217.4	1178.1	1164.0
52.5°	11477.9	10620.2	6504.7	2678.2	1573.9	1449.9	1327.3	1240.9	1176.5	1132.6	1113.7
55°	12098.4	10992.5	6258.1	2268.2	1409.0	1338.3	1297.5	1225.2	1151.4	1099.6	1079.1
57.5°	12649.7	11234.4	5832.4	1883.4	1291.2	1261.4	1266.1	1198.5	1113.7	1069.7	1041.4
60°	13108.4	11411.9	5202.5	1526.8	1195.4	1186.0	1217.4	1148.3	1049.3	999.0	977.0
62.5°	13383.3	11408.8	4429.7	1250.4	1113.7	1116.8	1153.0	1085.4	984.9	937.8	923.6
65°	13359.7	11129.2	3581.4	1069.7	1035.2	1038.3	1085.4	1016.3	931.5	903.2	901.6
67.5°	12886.9	10447.4	2747.3	951.9	948.8	962.9	1017.9	969.2	898.5	895.4	900.1
70°	11606.7	9032.1	1979.2	857.7	859.2	879.7	951.9	939.3	881.2	887.5	885.9
72.5°	9307.0	6886.4	1328.9	758.7	760.3	793.3	889.1	915.8	863.9	947.2	959.8
75°	6198.4	4294.6	854.5	653.5	655.0	697.4	834.1	870.2	816.8	944.1	951.9
77.5°	2978.2	1930.5	618.9	549.8	549.8	589.1	721.0	779.1	695.9	733.6	672.3
80°	1028.9	725.7	486.9	443.0	433.5	460.2	607.9	675.4	600.0	552.9	518.4
82.5°	405.3	377.0	391.1	344.0	312.6	329.9	472.8	557.6	441.4	399.0	397.4
85°	232.5	245.0	276.5	227.8	180.6	202.6	347.1	400.6	333.0	293.7	300.0
87.5°	62.8	86.4	127.2	117.8	81.7	86.4	164.9	221.5	191.6	147.7	152.4
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)