

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: P885288

Luminaire Tested: **NAV-SB6C-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35093 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

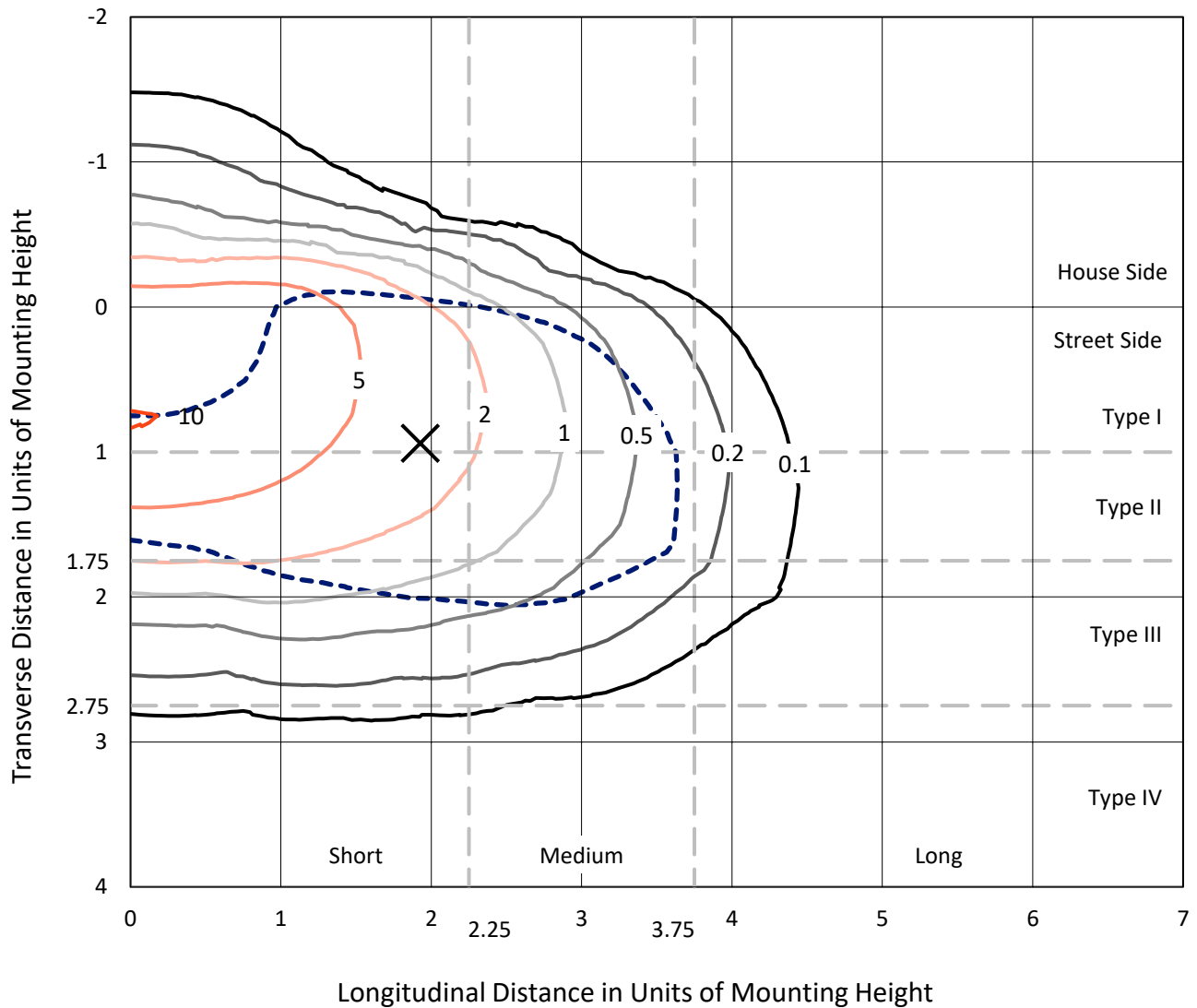
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885288
 CATALOG NUMBER: NAV-SB6C-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

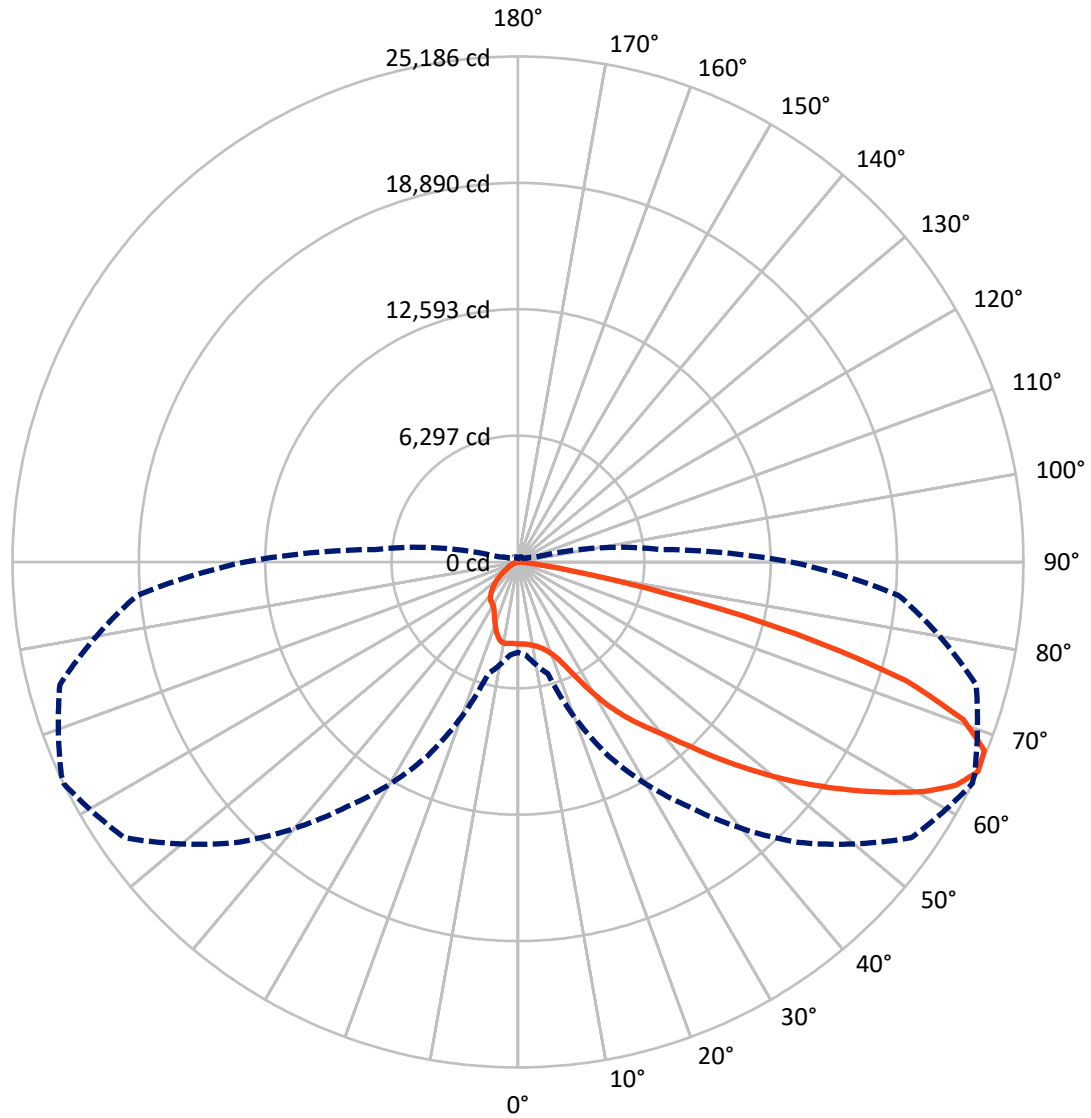
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

REPORT NUMBER: P885288
CATALOG NUMBER: NAV-SB6C-730-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P885288

CATALOG NUMBER: NAV-SB6C-730-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4693.0	0.0	4693.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	30400.0	0.0	30400.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	35093.0	0.0	35093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.6	1.1
10°-20°	1021.4	2.9
20°-30°	1935.4	5.5
30°-40°	3916.4	11.2
40°-50°	6671.6	19.0
50°-60°	9072.9	25.9
60°-70°	8519.9	24.3
70°-80°	3413.4	9.7
80°-90°	165.4	0.5
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°	35093.0	100.0
0°-180°	35093.0	100.0

Coefficient of Utilization



REPORT NUMBER: P885288

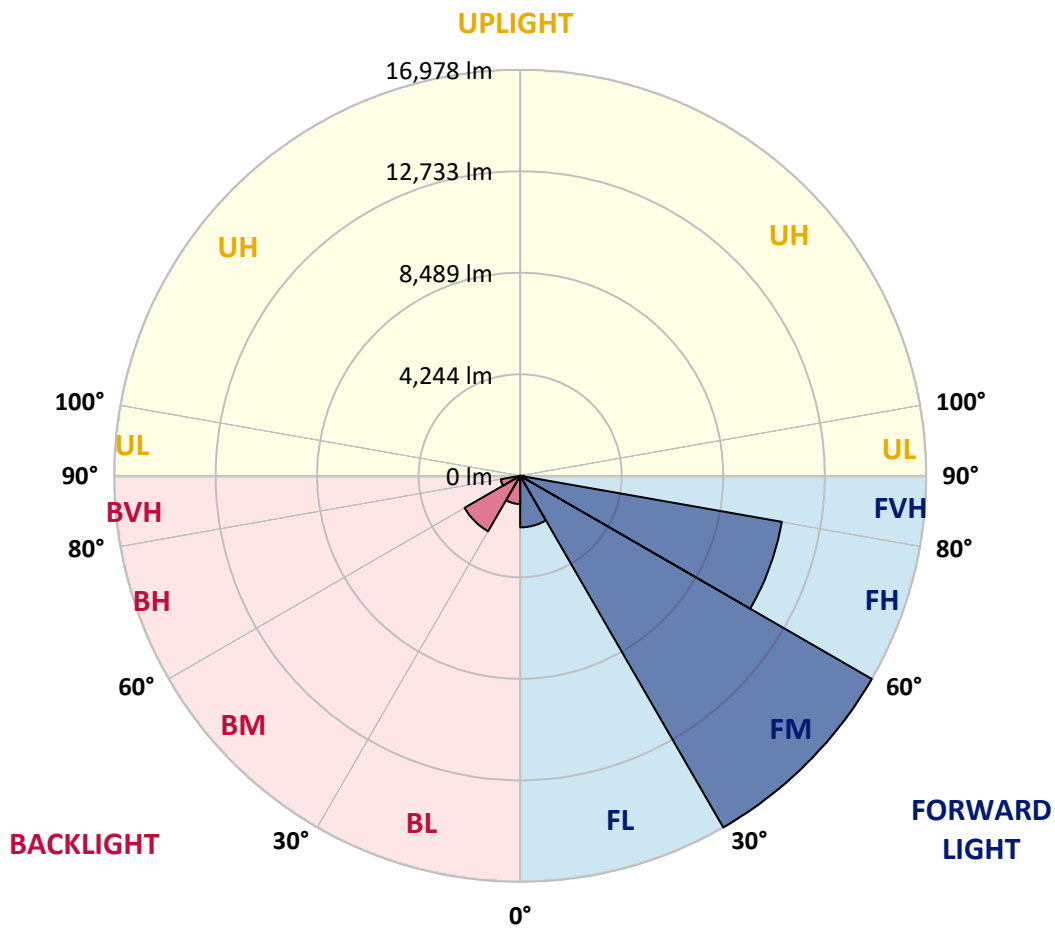
CATALOG NUMBER: NAV-SB6C-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.1	6.1			
FM (30°-60°)	16978.0	48.4			
FH (60°-80°)	11109.6	31.7			G4/12000
FVH (80°-90°)	157.3	0.4			G2/225
BL (0°-30°)	1178.3	3.4	B3/2500		
BM (30°-60°)	2683.0	7.6	B3/5000		
BH (60°-80°)	823.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.1	0.0			G0/10
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: P885288

CATALOG NUMBER: NAV-SB6C-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7
2.5°	4067.6	4095.8	4088.7	4081.7	4079.3	4084.0	4086.4	4084.0	4084.0	4084.0	4086.4
5°	3989.9	4013.5	4013.5	4029.9	4053.4	4081.7	4102.9	4107.6	4112.3	4119.3	4117.0
7.5°	3841.7	3860.5	3874.7	3928.8	3987.6	4062.9	4126.4	4159.3	4164.0	4189.9	4199.3
10°	3740.6	3764.1	3787.6	3844.1	3928.8	4041.7	4149.9	4229.9	4241.7	4302.8	4331.1
12.5°	3735.9	3759.4	3790.0	3851.1	3949.9	4069.9	4201.7	4316.9	4338.1	4427.5	4486.3
15°	3785.3	3813.5	3841.7	3917.0	4022.9	4168.7	4309.9	4453.4	4474.6	4601.6	4665.1
17.5°	3886.4	3924.1	3945.2	4020.5	4133.4	4295.8	4481.6	4646.3	4665.1	4813.3	4893.3
20°	4086.4	4131.1	4138.1	4199.3	4309.9	4484.0	4705.1	4909.8	4933.3	5102.7	5192.1
22.5°	4500.4	4564.0	4507.5	4538.1	4636.9	4811.0	5050.9	5309.7	5342.6	5535.6	5615.5
25°	5229.7	5319.1	5173.3	5121.5	5163.9	5345.0	5646.1	5973.1	6010.8	6166.0	6206.0
27.5°	6662.4	6547.2	6326.0	6109.6	5982.5	6086.1	6424.8	6829.5	6876.5	7027.1	6980.0
30°	8236.3	8135.1	7836.4	7356.4	7055.3	7038.8	7351.7	7803.4	7857.5	8001.0	7857.5
32.5°	9812.5	9716.0	9391.4	8800.9	8278.6	8019.9	8236.3	8737.4	8765.6	8857.4	8645.6
35°	11362.8	11264.0	10939.4	10334.8	9692.5	9104.4	9062.0	9626.6	9636.1	9732.5	9417.3
37.5°	12922.6	12840.2	12494.4	11901.6	11268.7	10457.1	10064.2	10468.9	10480.6	10574.7	10247.7
40°	14035.3	14070.6	13833.0	13374.3	12830.8	11943.9	11188.7	11365.2	11294.6	11452.2	11257.0
42.5°	14990.5	15061.0	14854.0	14623.5	14308.2	13527.2	12581.5	12550.9	12438.0	12522.6	12320.3
45°	15816.2	15875.0	15689.2	15635.1	15628.0	15079.9	14103.6	13920.1	13762.4	13746.0	13503.7
47.5°	16119.7	16232.6	16312.6	16493.8	16846.6	16616.1	15677.4	15392.8	15216.3	15086.9	14703.5
50°	16235.0	16355.0	16627.8	17154.8	17990.0	18088.8	17244.2	16924.3	16707.8	16472.6	15908.0
52.5°	16079.7	16293.8	16660.8	17547.7	18759.3	19269.8	18747.5	18467.5	18220.5	17837.1	16999.6
55°	15164.6	15378.6	16129.1	17543.0	19142.7	20097.9	20168.4	20043.8	19766.2	19161.5	17881.8
57.5°	13235.5	13553.1	14741.1	16945.4	19135.7	20810.7	21561.2	21650.5	21340.0	20474.3	18575.8
60°	10563.0	10993.5	12442.7	15621.0	18545.2	21196.5	22782.1	23229.1	22899.8	21768.2	19138.0
62.5°	7370.6	7869.3	9240.8	13546.0	17194.8	20918.9	23673.7	24499.5	24250.1	22925.6	19354.5
65°	4495.7	4655.7	5761.4	10659.4	14898.7	19756.7	23949.0	25186.4	25104.1	23633.8	19034.5
67.5°	2994.8	3128.9	3446.5	7309.4	11565.2	17434.8	23290.3	25066.5	25090.0	23518.5	17862.9
70°	1804.4	1919.7	2126.7	4251.1	7495.2	13800.1	21250.6	23537.3	23673.7	21977.6	15642.1
72.5°	743.4	821.0	1009.2	1926.7	3881.7	8758.6	16921.9	20208.4	20526.0	18479.3	12005.1
75°	421.1	461.1	592.8	966.9	1684.4	4081.7	10250.1	14345.9	14814.0	12736.7	7222.3
77.5°	280.0	298.8	383.5	625.8	948.1	1392.7	4380.5	7474.1	8368.0	6956.5	3126.5
80°	188.2	204.7	263.5	418.8	616.4	597.5	1395.1	2769.0	3406.5	2390.2	762.2
82.5°	127.0	129.4	188.2	275.2	390.5	289.4	411.7	861.0	1082.2	691.7	289.4
85°	72.9	70.6	138.8	160.0	174.1	120.0	124.7	258.8	338.8	291.7	164.7
87.5°	9.4	14.1	54.1	42.3	23.5	25.9	25.9	44.7	65.9	70.6	35.3
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: P885288

CATALOG NUMBER: NAV-SB6C-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7	4081.7
2.5°	4086.4	4084.0	4077.0	4069.9	4053.4	4044.0	4048.7	4044.0	4041.7	4044.0	4053.4
5°	4117.0	4109.9	4091.1	4067.6	4034.6	3994.6	3968.8	3931.1	3895.8	3874.7	3879.4
7.5°	4199.3	4192.3	4166.4	4100.5	3994.6	3827.6	3674.7	3540.6	3439.4	3380.6	3383.0
10°	4331.1	4319.3	4279.3	4133.4	3855.8	3491.2	3187.7	2936.0	2771.3	2693.7	2686.6
12.5°	4486.3	4472.2	4401.6	4102.9	3592.3	3023.0	2604.3	2324.3	2171.4	2103.2	2096.1
15°	4669.8	4651.0	4512.2	3957.0	3208.9	2505.5	2122.0	1912.6	1813.8	1752.7	1755.0
17.5°	4898.0	4865.1	4594.5	3738.2	2792.5	2110.2	1825.6	1668.0	1580.9	1522.1	1517.4
20°	5194.4	5140.3	4660.4	3477.1	2409.0	1860.9	1625.6	1493.9	1428.0	1376.2	1366.8
22.5°	5608.5	5530.9	4740.4	3194.8	2138.5	1689.1	1477.4	1380.9	1326.8	1268.0	1258.6
25°	6121.3	6029.6	4839.2	2933.6	1952.6	1540.9	1369.2	1289.2	1225.7	1157.5	1150.4
27.5°	6838.9	6674.2	4956.8	2719.6	1792.6	1413.9	1270.4	1181.0	1108.1	1051.6	1039.8
30°	7638.7	7368.2	5060.3	2590.2	1646.8	1296.3	1141.0	1051.6	983.4	943.4	936.3
32.5°	8396.3	8029.3	5128.6	2533.7	1515.0	1162.2	999.8	903.4	851.6	839.9	846.9
35°	9111.4	8626.8	5121.5	2479.6	1397.4	1028.1	861.0	762.2	722.2	729.3	729.3
37.5°	9934.8	9264.4	5072.1	2394.9	1301.0	905.7	741.1	654.0	618.7	621.1	630.5
40°	10892.3	10000.7	5041.5	2234.9	1195.1	792.8	642.2	571.7	545.8	536.4	534.0
42.5°	11913.3	10713.5	5046.2	2053.8	1063.4	691.7	574.0	515.2	491.7	484.6	482.3
45°	12939.0	11393.4	5053.3	1865.6	924.6	614.0	524.6	475.2	461.1	451.7	451.7
47.5°	13903.6	11972.1	4921.5	1663.3	788.1	555.2	484.6	451.7	439.9	428.2	428.2
50°	14802.3	12358.0	4603.9	1428.0	679.9	508.2	454.0	430.5	418.8	407.0	407.0
52.5°	15501.0	12419.1	4079.3	1185.7	604.6	472.9	435.2	414.0	399.9	388.2	385.8
55°	15811.5	12035.7	3333.6	959.8	545.8	442.3	416.4	395.2	378.8	367.0	364.6
57.5°	15731.5	11228.7	2599.6	771.6	489.3	411.7	392.9	378.8	359.9	341.1	338.8
60°	15338.6	10148.9	1959.7	642.2	437.6	378.8	367.0	355.2	329.4	301.1	296.4
62.5°	14658.8	8791.5	1397.4	531.7	381.1	341.1	336.4	327.0	289.4	237.6	232.9
65°	13618.9	7142.4	941.0	442.3	327.0	298.8	301.1	284.7	235.3	176.4	171.7
67.5°	12099.2	5222.7	602.3	362.3	272.9	249.4	251.7	242.3	200.0	150.6	143.5
70°	10163.0	3458.3	392.9	275.2	218.8	192.9	207.0	209.4	169.4	122.3	117.6
72.5°	7450.5	2042.0	275.2	204.7	160.0	134.1	169.4	174.1	136.4	91.7	87.0
75°	4246.4	969.3	207.0	148.2	98.8	94.1	131.7	131.7	94.1	61.2	56.5
77.5°	1783.2	404.6	145.9	96.5	56.5	54.1	89.4	82.3	47.1	28.2	28.2
80°	515.2	181.1	77.6	47.1	23.5	21.2	35.3	25.9	11.8	4.7	4.7
82.5°	202.3	80.0	30.6	18.8	9.4	9.4	4.7	0.0	0.0	0.0	0.0
85°	120.0	32.9	14.1	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.6	7.1	4.7	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)