

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: P885357

Luminaire Tested: **NAV-SB6C-835-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-835-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38003 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

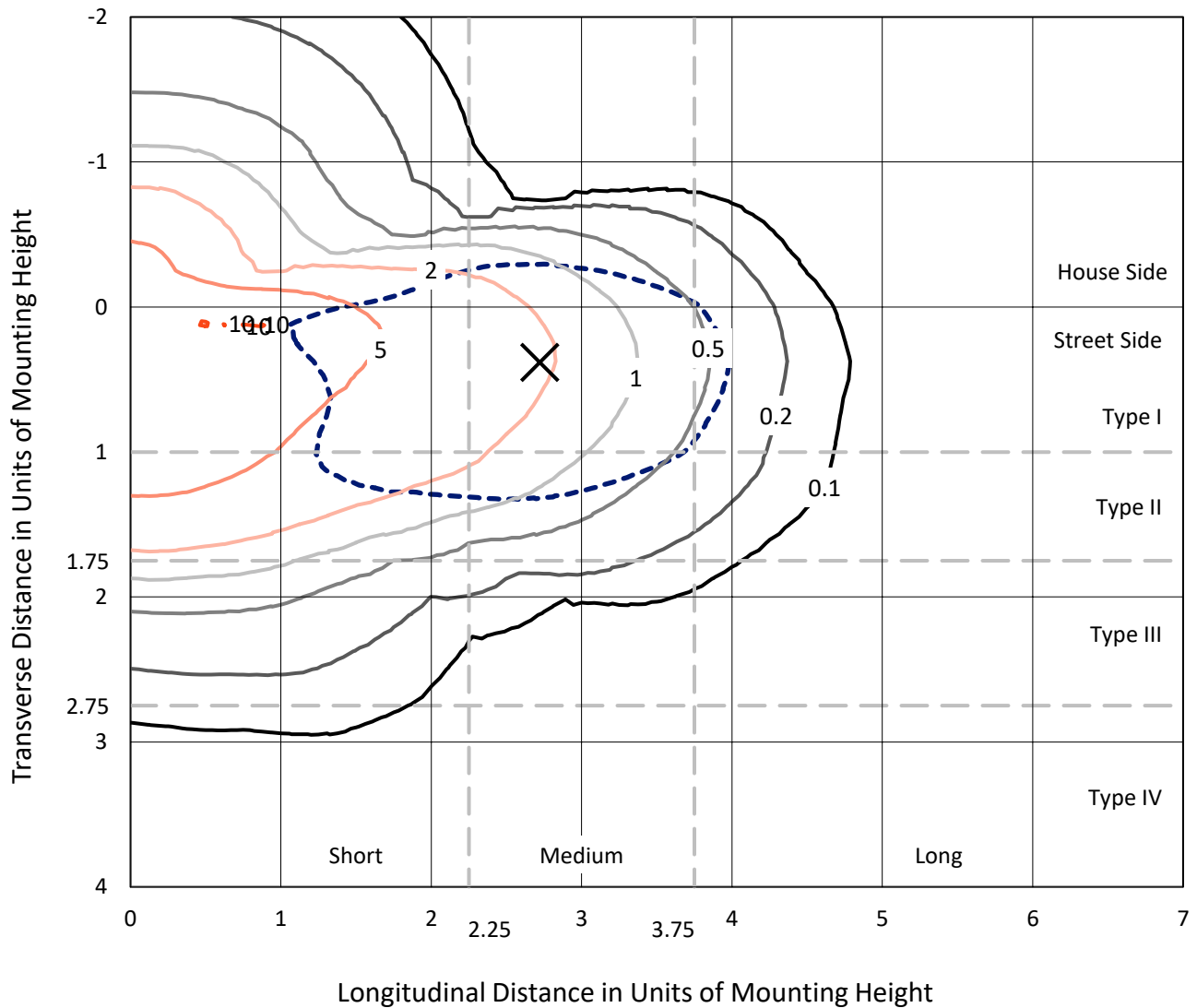
Input Watts (W): 300.9
Input Voltage (V): 120.0
Input Current (Ain): 2.518
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P885357
 CATALOG NUMBER: NAV-SB6C-835-U-T2

Iso-Footcandle Lines of Horizontal Illumination

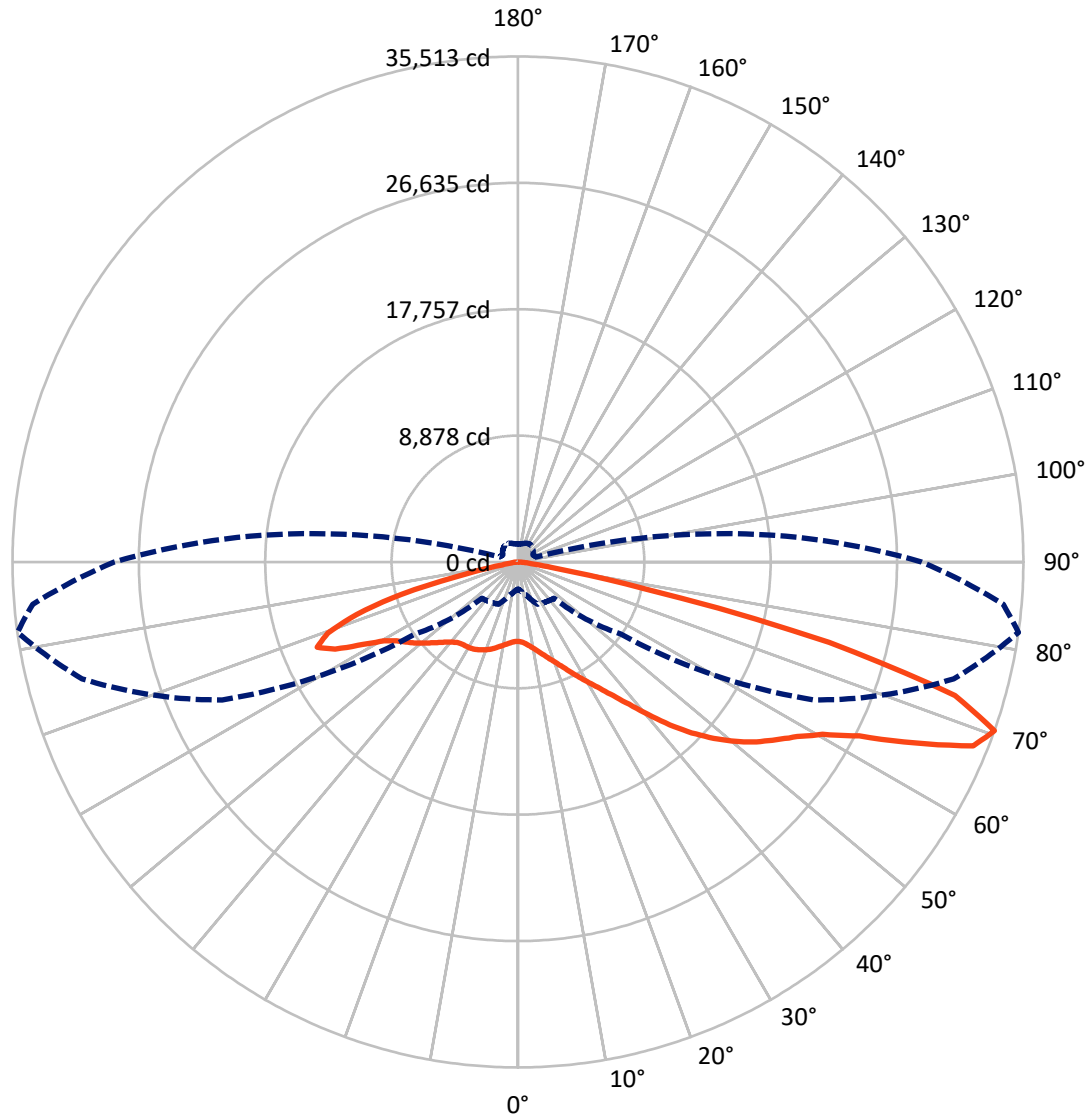
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P885357
CATALOG NUMBER: NAV-SB6C-835-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P885357
 CATALOG NUMBER: NAV-SB6C-835-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9368.7	0.0	9368.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	28634.3	0.0	28634.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	38003.0	0.0	38003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.1	1.4
10°-20°	1511.4	4.0
20°-30°	2528.5	6.7
30°-40°	3950.1	10.4
40°-50°	6291.0	16.6
50°-60°	8754.7	23.0
60°-70°	9157.8	24.1
70°-80°	4786.4	12.6
80°-90°	497.0	1.3
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°	38003.0	100.0
0°-180°	38003.0	100.0

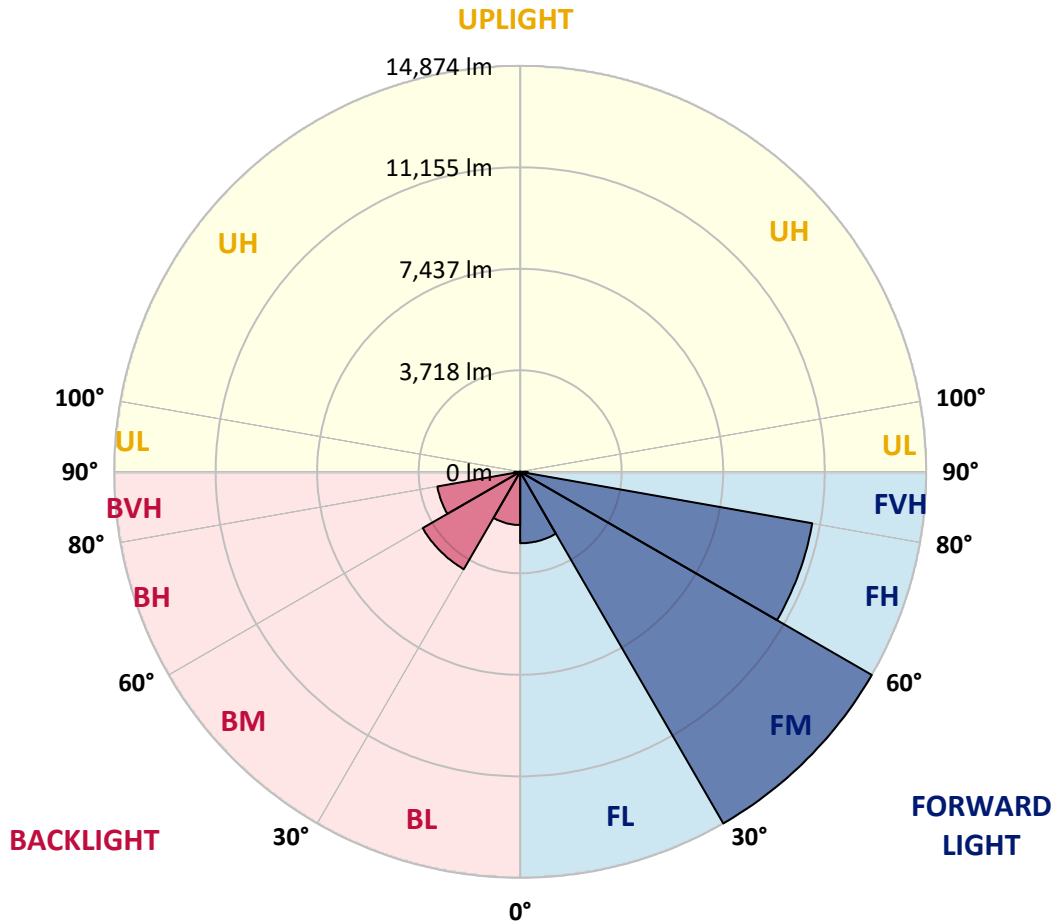


REPORT NUMBER: P885357
 CATALOG NUMBER: NAV-SB6C-835-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.9	6.9			
FM (30°-60°)	14874.0	39.1			
FH (60°-80°)	10865.2	28.6			G4/12000
FVH (80°-90°)	278.2	0.7			G3/500
BL (0°-30°)	1949.0	5.1	B3/2500		
BM (30°-60°)	4121.8	10.8	B3/5000		
BH (60°-80°)	3079.0	8.1	B4/5000		G4/5000
BVH (80°-90°)	218.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



REPORT NUMBER: P885357

CATALOG NUMBER: NAV-SB6C-835-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7
2.5°	5704.8	5737.1	5727.0	5716.9	5716.9	5702.8	5700.8	5680.6	5664.5	5638.3	5632.2
5°	5777.4	5811.7	5807.7	5815.7	5841.9	5848.0	5854.0	5841.9	5809.7	5777.4	5763.3
7.5°	5712.9	5751.2	5763.3	5811.7	5892.3	5964.9	6019.4	6041.6	6011.3	5964.9	5942.8
10°	5495.1	5537.4	5579.8	5694.7	5837.9	6009.3	6154.5	6241.2	6235.2	6190.8	6152.5
12.5°	5053.5	5097.8	5188.6	5412.4	5674.6	5977.0	6247.3	6428.7	6491.3	6459.0	6392.4
15°	4700.6	4738.9	4807.4	5037.3	5378.1	5837.9	6281.5	6634.4	6793.7	6775.6	6694.9
17.5°	4690.5	4706.6	4749.0	4857.9	5120.0	5620.1	6245.2	6836.1	7140.6	7138.6	7037.7
20°	4867.9	4874.0	4898.2	4920.4	5069.6	5454.8	6152.5	7003.5	7529.8	7529.8	7420.9
22.5°	5114.0	5109.9	5134.1	5114.0	5186.6	5440.6	6094.0	7150.7	7963.3	7995.6	7858.5
25°	5483.0	5462.8	5456.8	5410.4	5424.5	5571.7	6158.5	7318.0	8477.6	8544.1	8372.7
27.5°	5975.0	5942.8	5920.6	5813.7	5777.4	5841.9	6356.2	7519.7	9050.3	9165.2	8947.4
30°	6616.3	6557.8	6525.5	6340.0	6208.9	6219.0	6654.6	7787.9	9649.2	9834.7	9558.4
32.5°	7491.5	7400.7	7314.0	7009.5	6769.5	6690.9	7039.8	8158.9	10298.5	10594.9	10240.0
35°	8471.5	8398.9	8306.2	7836.3	7467.3	7285.8	7560.0	8677.2	11058.7	11528.6	11066.8
37.5°	9415.3	9352.7	9397.1	8763.9	8288.0	8023.8	8241.6	9372.9	11996.4	12690.1	12103.3
40°	10391.3	10342.9	10348.9	9743.9	9189.4	8893.0	9068.4	10246.1	13071.2	14071.5	13349.5
42.5°	11452.0	11415.7	11294.7	10758.3	10135.2	9858.9	10020.2	11254.3	14224.7	15644.4	14716.7
45°	12639.7	12617.5	12504.6	11889.6	11175.7	10865.1	11082.9	12367.5	15384.2	17124.5	16090.0
47.5°	13666.1	13684.3	13670.2	13151.9	12411.8	11956.1	12216.2	13529.0	16463.1	18515.9	17406.8
50°	14160.2	14255.0	14394.1	14232.8	13773.0	13309.2	13359.6	14650.2	17491.5	19820.6	18669.2
52.5°	13902.1	14081.5	14460.6	14718.8	14896.2	14799.4	14664.3	15763.3	18459.5	20998.3	19863.0
55°	12940.2	13192.2	13821.4	14444.5	15349.9	16053.7	16231.2	16997.5	19403.2	22034.8	20992.2
57.5°	11187.8	11597.2	12161.8	13422.1	14946.6	16660.7	18058.2	18709.5	20403.4	23141.9	22173.9
60°	8183.1	8731.6	9433.4	11308.8	13535.1	16336.0	19612.9	21339.1	21825.1	24575.6	23712.6
62.5°	5237.0	5575.7	6221.0	7987.5	10546.5	14672.4	20088.8	24626.1	24234.8	26926.9	26019.5
65°	3585.4	3803.2	4394.1	5386.2	6817.9	10921.6	18814.4	27090.3	28062.2	30653.5	29963.8
67.5°	2605.4	2770.7	3274.9	4144.0	4442.4	6463.0	14599.8	26977.3	31782.8	34493.0	33420.2
70°	1899.6	2016.5	2440.0	3274.9	3418.0	3595.5	8844.6	22932.2	31702.1	35513.4	34228.8
72.5°	1407.5	1488.2	1772.5	2540.8	2766.7	2427.9	4377.9	16666.7	27241.5	32121.6	31091.1
75°	1018.4	1078.9	1288.6	1943.9	2214.2	1849.2	2183.9	9739.9	19001.9	22595.4	22776.9
77.5°	778.4	824.8	961.9	1423.7	1772.5	1387.4	1355.1	4480.8	9009.9	9054.3	9562.5
80°	625.1	655.4	730.0	1002.2	1359.2	1038.5	883.2	1808.8	2847.4	2409.8	2528.7
82.5°	459.8	510.2	617.1	703.8	972.0	715.9	538.4	913.5	1082.9	931.6	939.7
85°	262.2	296.4	373.1	504.1	621.1	437.6	308.5	405.3	504.1	413.4	369.0
87.5°	92.8	121.0	131.1	197.6	270.2	181.5	119.0	117.0	165.4	123.0	102.8
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: P885357
 CATALOG NUMBER: NAV-SB6C-835-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7	5571.7
2.5°	5612.0	5602.0	5561.6	5507.2	5450.7	5396.3	5378.1	5339.8	5313.6	5299.5	5315.6
5°	5725.0	5692.7	5597.9	5476.9	5349.9	5212.8	5116.0	5027.2	4962.7	4902.2	4926.4
7.5°	5886.3	5829.8	5666.5	5454.8	5228.9	5001.0	4831.6	4702.6	4615.9	4559.4	4571.5
10°	6073.8	5987.1	5737.1	5420.5	5071.6	4744.9	4545.3	4434.4	4379.9	4349.7	4357.8
12.5°	6289.6	6166.6	5809.7	5341.8	4831.6	4458.6	4321.5	4289.2	4291.2	4293.2	4297.3
15°	6555.8	6384.4	5868.1	5170.4	4519.1	4238.8	4214.6	4267.0	4321.5	4347.7	4345.7
17.5°	6856.3	6614.3	5878.2	4888.1	4212.6	4097.6	4174.2	4287.2	4369.9	4406.2	4414.2
20°	7178.9	6848.2	5805.6	4488.8	3960.5	3982.7	4119.8	4265.0	4355.7	4402.1	4414.2
22.5°	7547.9	7098.2	5632.2	4069.4	3754.8	3857.7	4019.0	4160.1	4254.9	4301.3	4313.4
25°	7969.4	7378.5	5360.0	3716.5	3577.4	3716.5	3877.8	3994.8	4071.4	4113.8	4125.9
27.5°	8437.2	7670.9	4997.0	3436.2	3422.1	3571.3	3704.4	3795.1	3835.5	3867.7	3879.8
30°	8907.1	7937.1	4557.4	3224.5	3287.0	3428.1	3522.9	3563.2	3575.3	3581.4	3595.5
32.5°	9415.3	8167.0	4095.6	3049.0	3157.9	3289.0	3345.4	3363.6	3307.1	3268.8	3280.9
35°	10030.3	8413.0	3643.9	2909.9	3030.9	3143.8	3161.9	3145.8	3079.3	3000.6	3004.7
37.5°	10790.5	8719.5	3282.9	2811.1	2911.9	2986.5	2964.3	2960.3	2966.3	2873.6	2879.6
40°	11722.2	9118.8	3018.8	2734.4	2815.1	2831.2	2768.7	2803.0	2833.2	2692.1	2696.1
42.5°	12756.7	9600.8	2851.4	2682.0	2734.4	2696.1	2599.3	2637.6	2633.6	2448.1	2446.1
45°	13811.3	10125.1	2792.9	2643.7	2659.8	2583.2	2476.3	2486.4	2401.7	2234.3	2240.4
47.5°	14859.9	10687.7	2829.2	2611.4	2567.1	2480.4	2397.7	2353.3	2228.3	2103.3	2103.3
50°	15888.4	11278.5	2962.3	2546.9	2440.0	2389.6	2329.1	2250.5	2117.4	2010.5	2002.4
52.5°	16842.2	11873.4	3111.5	2440.0	2280.7	2311.0	2272.6	2181.9	2050.8	1941.9	1943.9
55°	17745.6	12468.3	3170.0	2292.8	2131.5	2242.4	2220.2	2052.8	1895.6	1806.8	1798.8
57.5°	18729.7	13184.2	3105.5	2105.3	2010.5	2163.8	2079.1	1893.5	1802.8	1736.2	1730.2
60°	20092.9	14307.4	2966.3	1873.4	1895.6	2046.8	1901.6	1825.0	1726.2	1651.6	1647.5
62.5°	22357.4	16402.6	2742.5	1643.5	1760.4	1873.4	1816.9	1740.3	1639.5	1566.9	1566.9
65°	25704.9	19314.5	2321.0	1464.0	1609.2	1704.0	1726.2	1649.5	1544.7	1468.0	1472.1
67.5°	28528.1	21141.5	1756.4	1314.8	1453.9	1566.9	1629.4	1554.8	1443.8	1369.2	1371.3
70°	28372.8	19814.6	1341.0	1167.6	1316.8	1431.7	1512.4	1453.9	1335.0	1264.4	1270.4
72.5°	25200.8	16576.0	1084.9	1018.4	1177.7	1290.6	1387.4	1343.0	1222.0	1153.5	1153.5
75°	18513.9	11766.5	867.1	867.1	1004.2	1143.4	1250.3	1222.0	1111.1	1062.7	1048.6
77.5°	7804.0	4936.5	679.6	719.9	834.8	982.1	1115.1	1125.2	1028.4	1088.9	988.1
80°	2075.0	1361.2	518.3	566.6	655.4	810.7	970.0	965.9	861.1	804.6	748.1
82.5°	790.5	536.4	369.0	399.3	473.9	621.1	768.3	792.5	687.6	594.9	594.9
85°	304.5	229.9	227.9	240.0	276.3	411.4	580.8	600.9	518.3	439.6	453.7
87.5°	78.6	68.6	84.7	80.7	127.0	219.8	332.7	344.8	316.6	183.5	262.2
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)