

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: P971084

Luminaire Tested: **NAV-SB6C-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-835-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35945.7 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

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

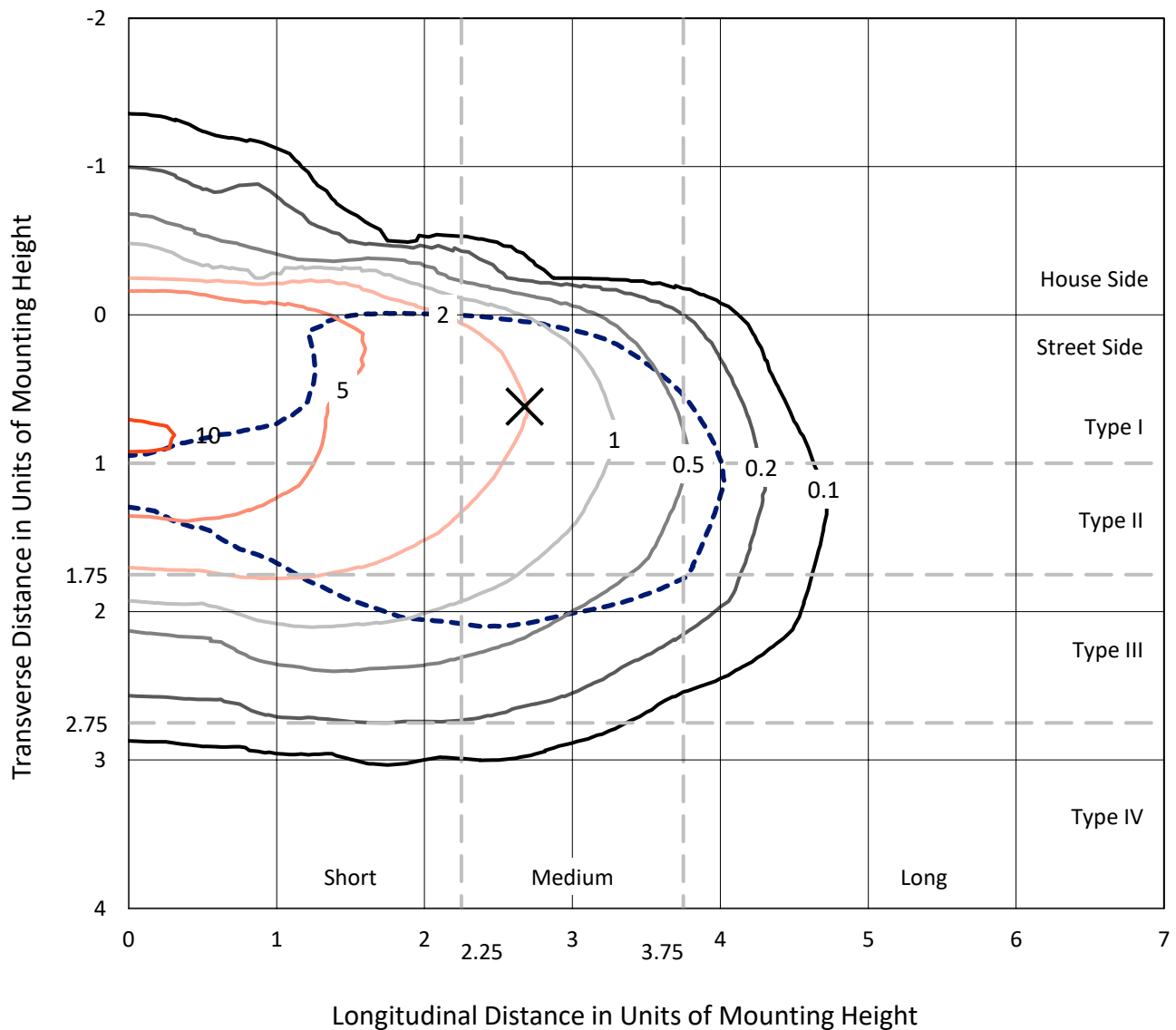


REPORT NUMBER: P971084

CATALOG NUMBER: NAV-SB6C-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

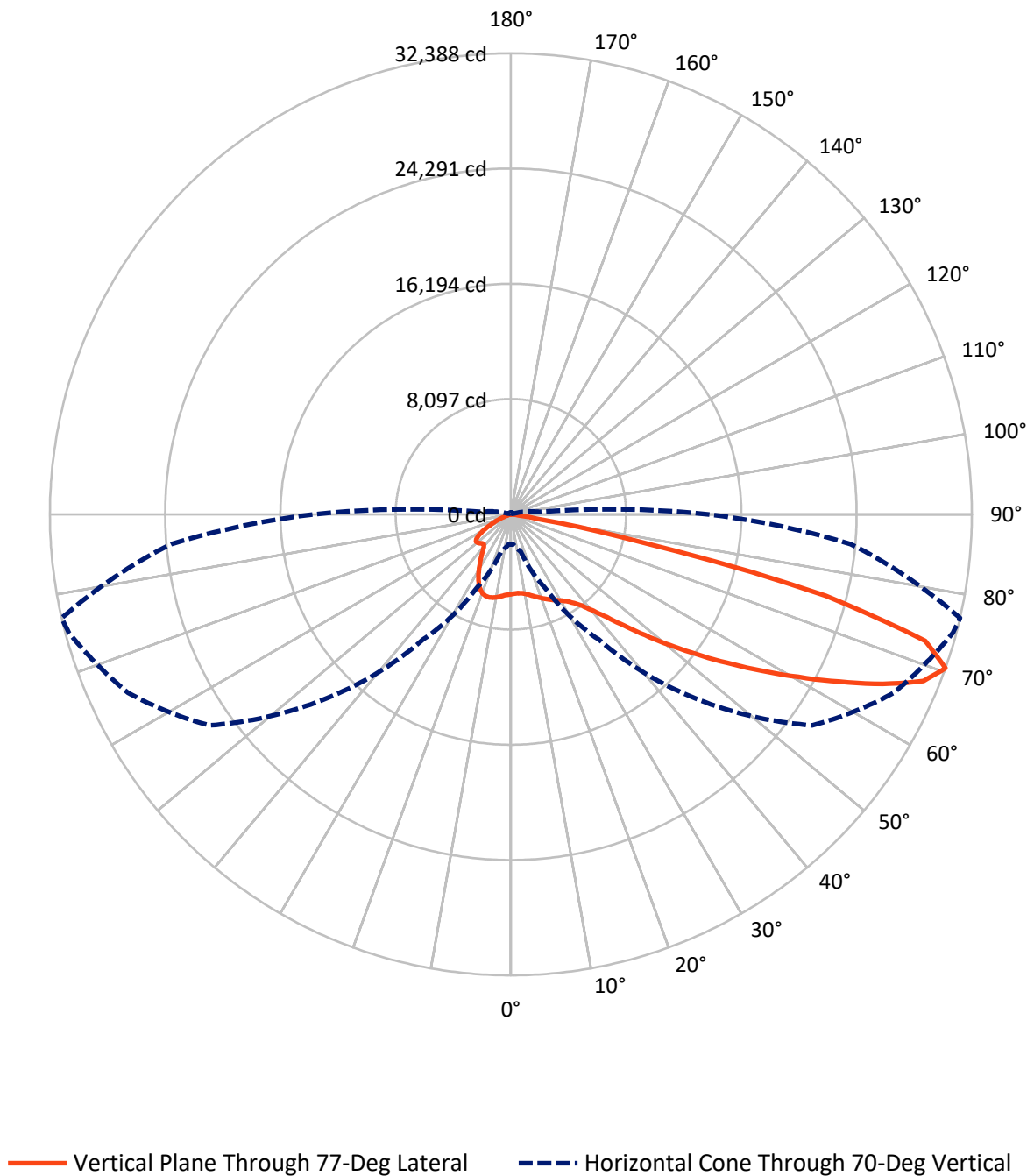
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type III - Medium - N/A

REPORT NUMBER: P971084
CATALOG NUMBER: NAV-SB6C-835-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971084

CATALOG NUMBER: NAV-SB6C-835-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3789.2	0.0	3789.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	32156.5	0.0	32156.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	35945.7	0.0	35945.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.2	1.3
10°-20°	1147.1	3.2
20°-30°	1774.3	4.9
30°-40°	3219.5	9.0
40°-50°	6077.2	16.9
50°-60°	8781.1	24.4
60°-70°	9347.2	26.0
70°-80°	4953.4	13.8
80°-90°	162.7	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°	35945.7	100.0
0°-180°	35945.7	100.0

Coefficient of Utilization



REPORT NUMBER: P971084

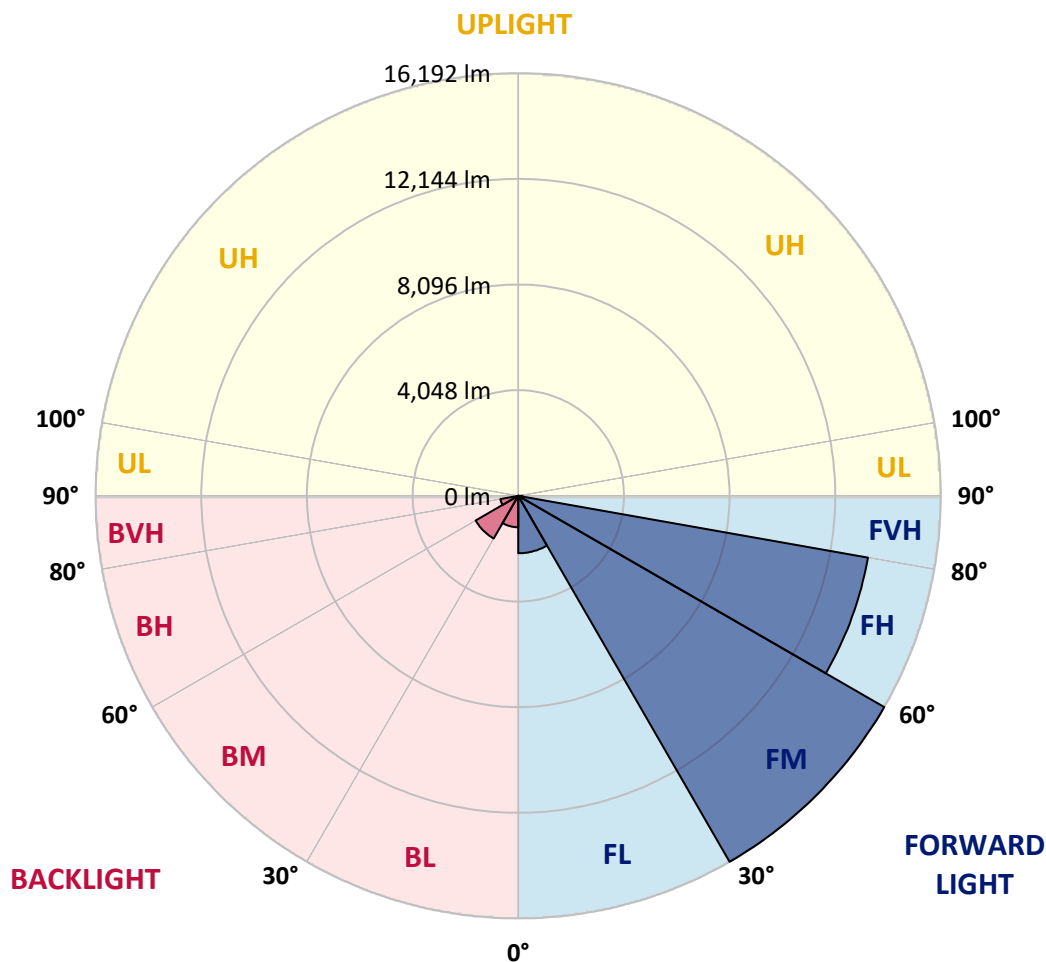
CATALOG NUMBER: NAV-SB6C-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2200.7	6.1			
FM	(30°-60°)	16191.6	45.0			
FH	(60°-80°)	13606.0	37.9			G5
FVH	(80°-90°)	158.3	0.4			G2/225
BL	(0°-30°)	1203.9	3.3	B3/2500		
BM	(30°-60°)	1886.3	5.2	B2/2500		
BH	(60°-80°)	694.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P971084

CATALOG NUMBER: NAV-SB6C-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9
2.5°	5264.1	5311.8	5305.0	5336.8	5348.1	5393.5	5438.9	5500.2	5568.3	5566.1	5611.5
5°	4966.7	5014.4	5025.8	5068.9	5123.4	5193.8	5286.8	5409.4	5536.5	5556.9	5647.7
7.5°	4614.9	4664.9	4694.4	4780.6	4880.4	5025.8	5177.9	5357.2	5568.3	5597.8	5772.6
10°	4263.1	4308.5	4347.0	4469.6	4628.5	4844.2	5091.6	5350.4	5634.1	5677.3	5924.7
12.5°	4045.2	4088.2	4131.4	4238.1	4435.6	4698.9	5034.8	5382.2	5743.1	5804.4	6131.2
15°	3968.0	4006.5	4040.6	4136.0	4319.8	4619.5	5023.5	5448.0	5881.6	5963.2	6380.9
17.5°	3979.3	3999.8	4022.4	4095.1	4274.4	4583.1	5043.9	5561.4	6045.0	6117.6	6630.6
20°	4045.2	4056.4	4058.8	4108.7	4267.6	4578.6	5084.8	5670.4	6199.3	6297.0	6878.1
22.5°	4129.1	4133.6	4129.1	4163.1	4310.7	4612.6	5139.2	5802.1	6371.9	6462.6	7127.7
25°	4521.8	4435.6	4326.6	4260.8	4383.3	4678.4	5220.9	5979.1	6560.3	6648.8	7370.7
27.5°	5740.8	5493.4	5103.0	4664.9	4533.2	4773.8	5334.5	6158.5	6751.0	6830.4	7631.7
30°	7720.2	7395.7	6732.8	5745.3	5014.4	4973.5	5482.0	6337.8	6953.0	7039.3	7910.9
32.5°	9704.2	9624.8	8859.8	7493.3	6097.2	5418.5	5727.2	6580.7	7220.8	7289.0	8287.7
35°	11710.9	11549.7	10923.2	9572.6	7765.6	6324.2	6135.8	6898.6	7572.7	7649.9	8837.0
37.5°	13247.7	13150.0	12761.9	11649.6	9745.1	7722.6	6834.9	7391.1	8083.5	8169.7	9540.8
40°	14605.1	14559.7	14428.1	13694.8	11958.4	9552.2	7922.3	8153.8	8791.7	8893.8	10403.3
42.5°	15672.0	15778.7	15853.7	15649.3	14239.7	11640.5	9384.2	9225.2	9779.1	9883.6	11502.0
45°	16763.9	16800.3	17102.1	17397.2	16505.2	13824.3	11032.2	10480.5	11007.2	11136.6	12818.6
47.5°	17465.3	17610.6	18141.8	18661.7	18409.6	15989.8	12802.8	11962.9	12430.5	12673.4	14294.1
50°	17517.6	17792.3	18523.2	19428.9	19796.6	18051.0	14727.7	13651.8	14148.9	14416.7	15869.6
52.5°	16648.2	17074.9	18207.6	19533.3	20545.7	19796.6	16718.5	15340.7	15978.5	16328.0	17503.9
55°	12764.2	13322.6	17020.4	18965.8	20575.2	21120.0	18657.0	17099.9	18016.9	18411.9	19270.0
57.5°	11120.7	11402.2	13381.6	17980.7	20028.2	21653.4	20409.5	18775.1	20234.7	20725.1	20938.4
60°	9252.5	9622.5	11222.8	16368.9	19285.9	21705.7	21957.7	20936.1	22638.7	23190.2	22468.4
62.5°	6287.9	6689.7	8281.0	13599.5	18271.1	21680.7	23226.6	23160.7	25310.4	25902.9	23764.5
65°	3895.3	4147.3	5196.0	11104.8	16852.4	21708.0	24554.5	25862.1	28129.8	28731.3	24767.9
67.5°	3078.1	3193.9	3740.9	8526.1	14407.6	21095.0	25880.2	28402.1	30783.4	31260.0	25074.4
70°	2067.9	2138.4	2721.7	5715.8	10718.9	18266.6	25855.2	29677.8	32149.9	32388.3	23957.5
72.5°	1089.6	1144.1	1591.3	2646.9	6474.0	12984.4	21794.2	28152.4	30790.2	30431.5	20477.7
75°	544.8	635.6	1071.4	1343.9	2764.8	7241.3	13533.7	22196.0	24234.5	22845.2	13138.8
77.5°	413.2	499.4	885.3	885.3	962.5	2438.0	5731.7	12105.9	11166.1	9297.9	3856.8
80°	263.3	340.5	774.1	669.6	401.8	619.7	1493.6	3391.4	2372.2	1804.6	701.4
82.5°	154.4	222.4	644.7	442.7	224.7	229.3	422.2	721.9	615.2	479.0	215.7
85°	61.3	145.2	442.7	174.8	88.6	56.8	127.1	154.4	127.1	95.3	54.5
87.5°	0.0	34.0	77.2	0.0	6.8	4.5	9.1	11.4	11.4	9.1	18.1
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: P971084

CATALOG NUMBER: NAV-SB6C-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9	5606.9
2.5°	5631.9	5636.4	5650.0	5652.3	5620.5	5579.7	5563.8	5556.9	5529.7	5527.4	5531.9
5°	5699.9	5720.4	5699.9	5641.0	5500.2	5302.7	5152.9	5030.3	4919.1	4885.0	4864.5
7.5°	5836.1	5856.5	5795.2	5563.8	5209.7	4816.9	4462.8	4213.1	3988.4	3904.4	3870.3
10°	6031.4	6058.6	5865.7	5398.1	4771.5	4140.5	3541.2	3119.0	2789.8	2655.9	2599.1
12.5°	6276.5	6287.9	5904.2	5146.1	4201.8	3300.6	2451.6	1999.9	1707.0	1598.1	1564.0
15°	6546.7	6530.8	5908.8	4803.4	3425.4	2333.5	1600.3	1314.4	1196.3	1160.0	1160.0
17.5°	6830.4	6764.6	5818.0	4308.5	2574.2	1595.8	1187.3	1119.1	1098.7	1089.6	1087.3
20°	7109.6	6962.1	5652.3	3661.5	1847.8	1191.8	1078.2	1057.8	1046.4	1041.9	1037.4
22.5°	7363.9	7111.9	5368.5	2910.2	1341.5	1053.3	1019.3	1001.1	980.6	971.6	969.2
25°	7611.2	7198.2	4969.0	2208.7	1073.7	985.1	958.0	923.9	896.7	885.3	880.8
27.5°	7851.9	7252.6	4469.6	1634.4	958.0	921.6	871.7	824.0	803.6	799.0	794.5
30°	8108.5	7270.8	3902.1	1219.0	887.5	842.1	769.6	715.0	703.7	705.9	705.9
32.5°	8421.7	7298.0	3330.1	998.8	828.5	746.8	660.6	603.8	594.7	603.8	601.6
35°	8796.2	7352.5	2778.5	919.3	776.3	649.2	556.2	508.5	499.4	506.2	503.9
37.5°	9304.7	7441.0	2263.2	903.4	733.2	567.5	467.6	429.1	429.1	431.3	429.1
40°	9981.1	7677.1	1802.4	892.1	710.5	506.2	394.9	379.0	385.9	390.4	390.4
42.5°	10805.1	8178.8	1491.4	878.5	685.5	479.0	358.6	351.9	363.2	367.8	367.8
45°	11729.1	8814.4	1382.4	855.8	662.9	497.1	342.8	333.7	347.3	349.6	351.9
47.5°	12684.7	9436.4	1368.8	830.9	640.1	524.4	338.2	317.8	333.7	336.0	338.2
50°	13651.8	9842.7	1382.4	792.2	603.8	524.4	340.5	301.9	315.5	322.4	324.6
52.5°	14625.5	10028.8	1373.3	708.3	540.3	492.6	340.5	288.3	301.9	306.5	306.5
55°	15569.9	9992.5	1234.9	583.4	458.6	435.8	331.4	277.0	286.0	288.3	288.3
57.5°	16316.7	9486.3	978.4	454.0	372.3	363.2	301.9	263.3	270.1	267.8	267.8
60°	16707.2	8374.0	699.2	349.6	292.8	286.0	265.6	245.2	249.7	238.3	236.1
62.5°	16711.7	6903.1	467.6	277.0	233.8	227.0	227.0	220.2	215.7	192.9	186.1
65°	16355.3	5271.0	311.0	220.2	188.4	177.0	190.6	188.4	172.5	140.7	136.2
67.5°	15547.2	3455.0	236.1	172.5	145.2	138.5	152.1	158.9	147.6	118.1	115.7
70°	13885.6	2011.3	195.3	134.0	109.0	102.2	122.6	136.2	122.6	95.3	90.8
72.5°	11533.8	1085.1	158.9	99.8	74.9	68.1	97.6	111.2	97.6	70.4	68.1
75°	7484.1	581.1	122.6	65.8	38.5	43.2	72.7	81.7	68.1	45.4	40.9
77.5°	2512.9	256.6	77.2	31.8	18.1	18.1	43.2	49.9	31.8	15.9	13.6
80°	560.7	106.7	31.8	13.6	6.8	6.8	9.1	9.1	4.5	0.0	0.0
82.5°	183.9	43.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.4	15.9	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	2.3	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)