

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: P970928

Luminaire Tested: **NAV-SB6C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38624.1 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
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

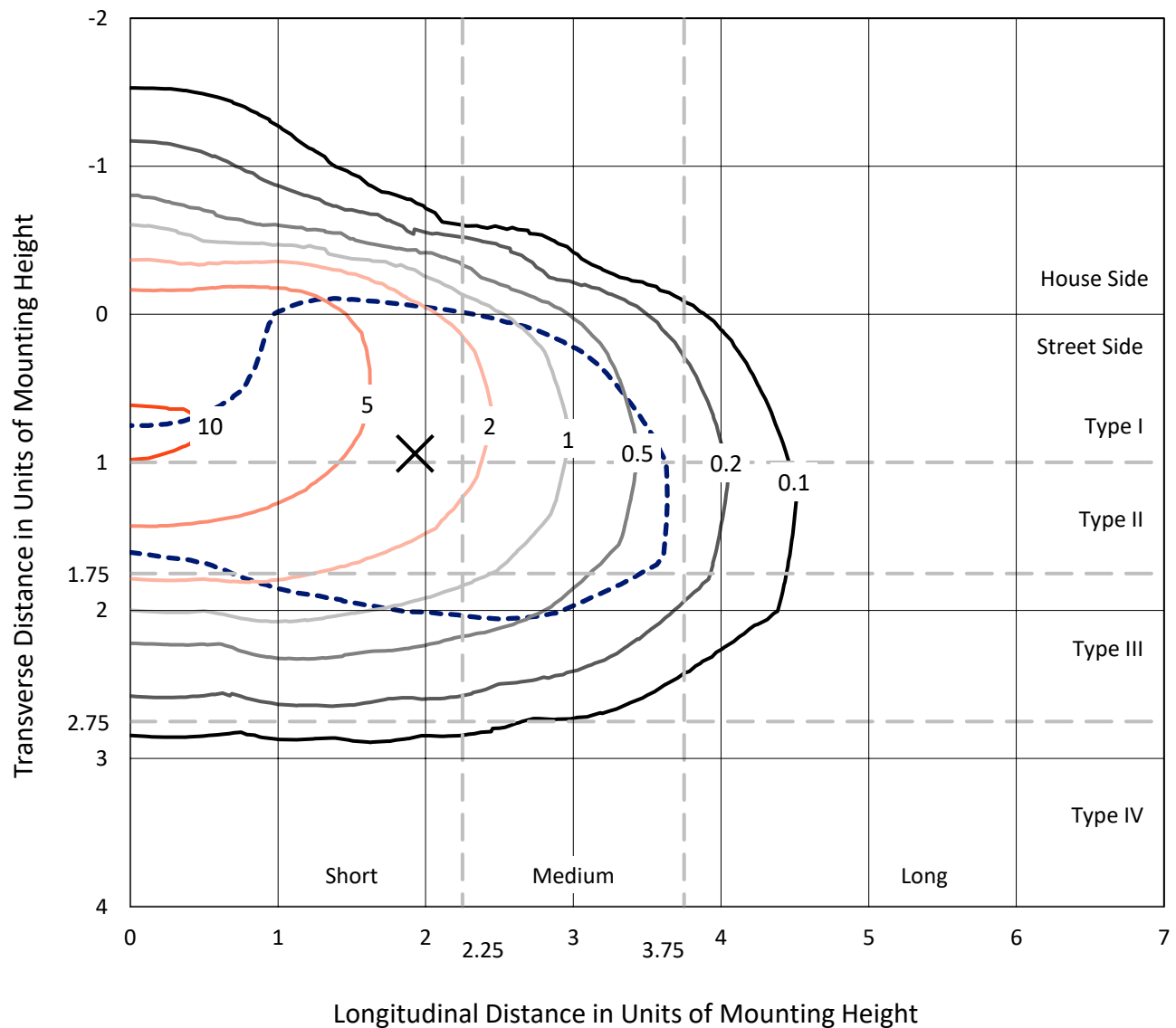


REPORT NUMBER: P970928

CATALOG NUMBER: NAV-SB6C-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

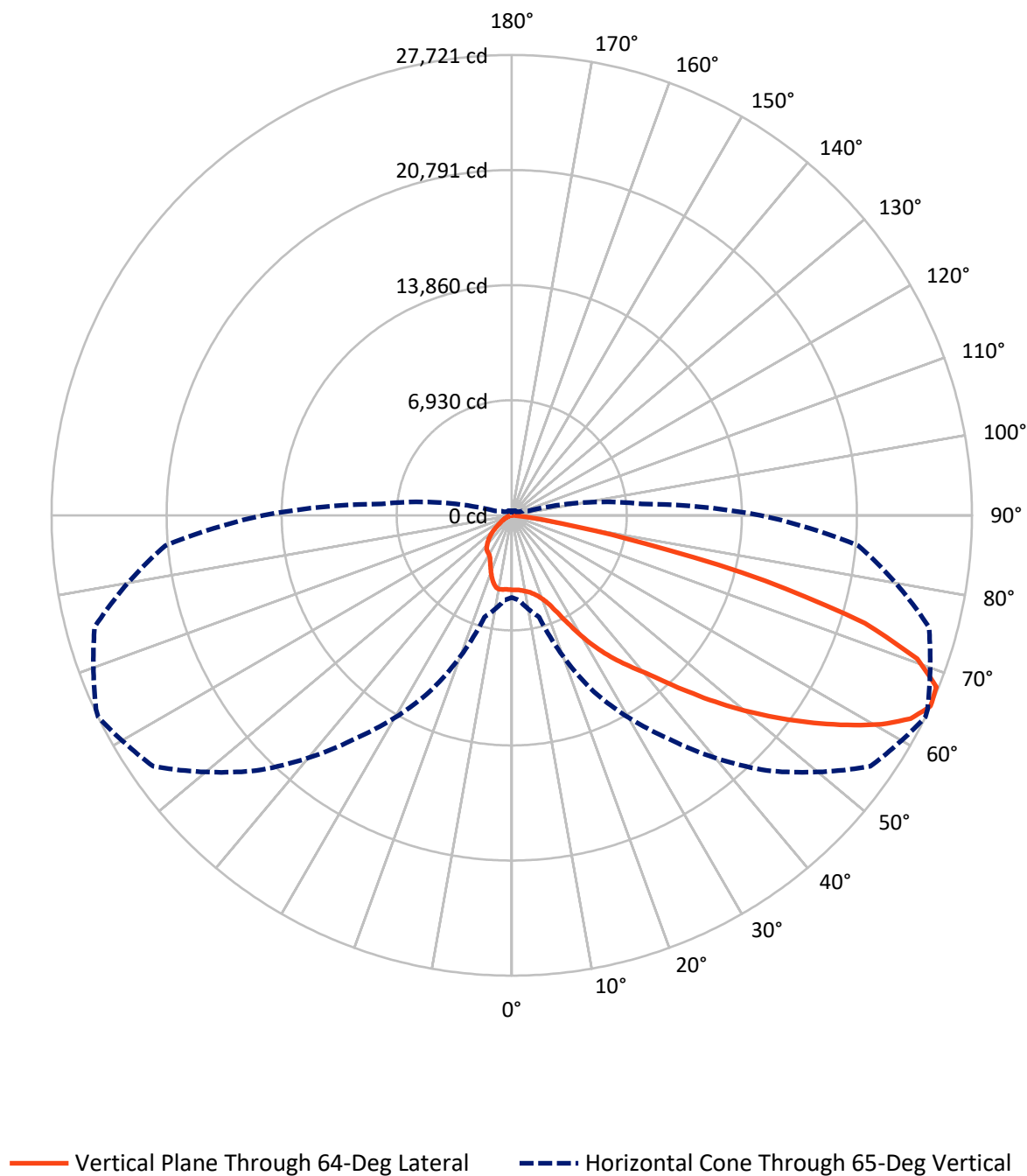


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
Type III - Short - N/A

REPORT NUMBER: P970928

CATALOG NUMBER: NAV-SB6C-740-U-T3-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5165.2	0.0	5165.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33458.8	0.0	33458.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	38624.1	0.0	38624.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.5	1.1
10°-20°	1124.2	2.9
20°-30°	2130.2	5.5
30°-40°	4310.5	11.2
40°-50°	7342.9	19.0
50°-60°	9985.8	25.9
60°-70°	9377.2	24.3
70°-80°	3756.9	9.7
80°-90°	182.0	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°	38624.1	100.0
0°-180°	38624.1	100.0

Coefficient of Utilization



REPORT NUMBER: P970928

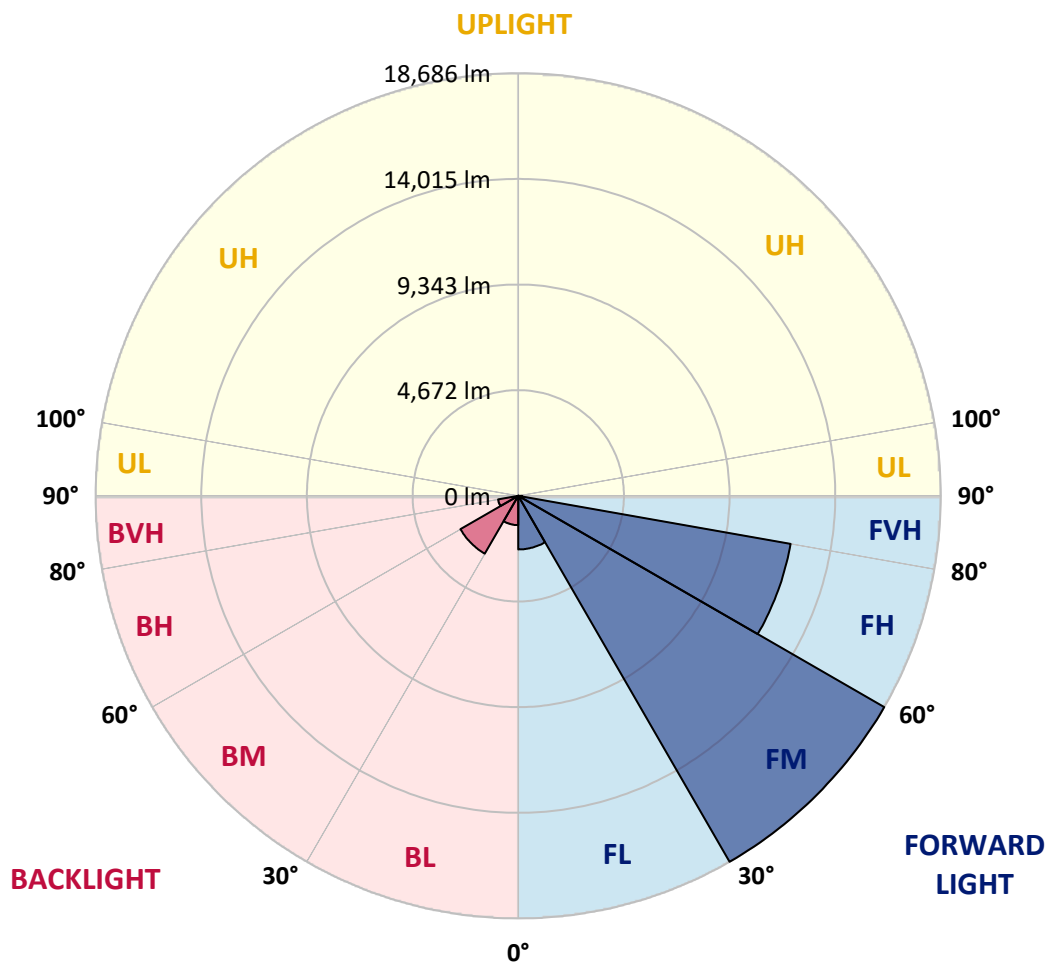
CATALOG NUMBER: NAV-SB6C-740-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.0	6.1			
FM	(30°-60°)	18686.3	48.4			
FH	(60°-80°)	12227.5	31.7			G5
FVH	(80°-90°)	173.1	0.4			G2/225
BL	(0°-30°)	1296.8	3.4	B3/2500		
BM	(30°-60°)	2952.9	7.6	B3/5000		
BH	(60°-80°)	906.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	8.9	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 Short



REPORT NUMBER: P970928

CATALOG NUMBER: NAV-SB6C-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4
2.5°	4476.9	4508.0	4500.2	4492.4	4489.8	4494.9	4497.6	4494.9	4494.9	4494.9	4497.6
5°	4391.4	4417.3	4417.3	4435.4	4461.3	4492.4	4515.6	4520.9	4526.0	4533.8	4531.2
7.5°	4228.2	4249.0	4264.5	4324.1	4388.8	4471.7	4541.6	4577.9	4583.0	4611.5	4621.8
10°	4116.9	4142.8	4168.7	4230.9	4324.1	4448.4	4567.5	4655.5	4668.5	4735.8	4766.9
12.5°	4111.8	4137.6	4171.3	4238.6	4347.3	4479.5	4624.4	4751.3	4774.7	4873.0	4937.7
15°	4166.1	4197.2	4228.2	4311.2	4427.7	4588.2	4743.5	4901.4	4924.8	5064.6	5134.5
17.5°	4277.4	4318.9	4342.2	4425.0	4549.4	4728.0	4932.5	5113.8	5134.5	5297.6	5385.7
20°	4497.6	4546.8	4554.5	4621.8	4743.5	4935.2	5178.5	5403.8	5429.7	5616.1	5714.5
22.5°	4953.3	5023.2	4961.0	4994.7	5103.5	5295.0	5559.2	5843.9	5880.2	6092.5	6180.5
25°	5756.0	5854.3	5693.8	5636.9	5683.4	5882.8	6214.3	6574.1	6615.6	6786.4	6830.5
27.5°	7332.8	7206.0	6962.5	6724.3	6584.5	6698.5	7071.3	7516.6	7568.4	7734.1	7682.4
30°	9065.0	8953.7	8624.9	8096.7	7765.2	7747.1	8091.5	8588.6	8648.1	8806.1	8648.1
32.5°	10799.8	10693.7	10336.3	9686.5	9111.6	8826.8	9065.0	9616.6	9647.6	9748.6	9515.6
35°	12506.1	12397.4	12040.1	11374.6	10667.8	10020.5	9973.9	10595.3	10605.7	10711.8	10364.8
37.5°	14222.8	14132.2	13751.6	13099.1	12402.6	11509.3	11076.9	11522.2	11535.1	11638.8	11278.9
40°	15447.6	15486.4	15224.9	14720.0	14121.8	13145.7	12314.6	12508.8	12431.1	12604.5	12389.7
42.5°	16498.8	16576.5	16348.6	16094.9	15747.9	14888.3	13847.4	13813.7	13689.5	13782.7	13560.0
45°	17407.7	17472.4	17267.9	17208.3	17200.5	16597.2	15522.7	15320.7	15147.2	15129.1	14862.4
47.5°	17741.6	17866.0	17954.0	18153.4	18541.7	18287.9	17254.8	16941.6	16747.4	16605.0	16182.9
50°	17868.5	18000.5	18301.0	18880.9	19800.1	19908.9	18979.3	18627.2	18389.0	18130.1	17508.6
52.5°	17697.6	17933.3	18337.1	19313.4	20646.8	21208.7	20633.9	20325.8	20053.9	19631.8	18710.0
55°	16690.4	16926.0	17752.0	19308.1	21068.9	22120.1	22197.8	22060.6	21755.0	21089.6	19681.0
57.5°	14567.2	14916.7	16224.3	18650.5	21061.1	22904.6	23730.6	23829.0	23487.3	22534.4	20444.9
60°	11625.9	12099.6	13694.6	17192.7	20411.2	23329.3	25074.5	25566.5	25203.9	23958.5	21063.6
62.5°	8112.2	8661.1	10170.7	14909.0	18925.0	23023.8	26055.8	26964.7	26690.2	25232.4	21301.9
65°	4948.1	5124.2	6341.2	11731.9	16397.8	21744.7	26358.7	27720.7	27630.1	26011.7	20949.8
67.5°	3296.1	3443.7	3793.3	8044.8	12728.9	19189.0	25633.7	27588.6	27614.5	25884.9	19660.3
70°	1985.9	2112.8	2340.7	4678.8	8249.4	15188.7	23388.9	25905.6	26055.8	24189.0	17216.0
72.5°	818.3	903.6	1110.8	2120.6	4272.3	9639.8	18624.6	22241.8	22591.3	20338.7	13213.1
75°	463.5	507.5	652.5	1064.2	1853.9	4492.4	11281.5	15789.3	16304.6	14018.3	7949.1
77.5°	308.1	328.8	422.1	688.7	1043.4	1532.9	4821.2	8226.1	9210.0	7656.4	3441.1
80°	207.2	225.3	290.0	460.8	678.3	657.6	1535.4	3047.5	3749.2	2630.7	839.0
82.5°	139.8	142.4	207.2	303.0	429.8	318.5	453.2	947.7	1191.0	761.3	318.5
85°	80.3	77.7	152.7	176.1	191.6	132.0	137.2	284.8	372.9	321.0	181.2
87.5°	10.4	15.6	59.6	46.6	25.9	28.5	28.5	49.2	72.5	77.7	38.8
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: P970928

CATALOG NUMBER: NAV-SB6C-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4	4492.4
2.5°	4497.6	4494.9	4487.2	4479.5	4461.3	4451.0	4456.1	4451.0	4448.4	4451.0	4461.3
5°	4531.2	4523.4	4502.7	4476.9	4440.6	4396.5	4368.1	4326.6	4287.8	4264.5	4269.7
7.5°	4621.8	4614.0	4585.5	4513.1	4396.5	4212.8	4044.4	3896.8	3785.5	3720.7	3723.4
10°	4766.9	4753.8	4709.9	4549.4	4243.8	3842.5	3508.5	3231.4	3050.2	2964.7	2956.9
12.5°	4937.7	4922.2	4844.6	4515.6	3953.8	3327.3	2866.3	2558.2	2389.9	2314.8	2307.1
15°	5139.7	5119.0	4966.2	4355.1	3531.7	2757.6	2335.6	2105.0	1996.3	1929.0	1931.6
17.5°	5390.9	5354.6	5056.8	4114.3	3073.5	2322.5	2009.3	1835.8	1739.9	1675.3	1670.0
20°	5717.1	5657.6	5129.3	3826.9	2651.4	2048.2	1789.1	1644.2	1571.7	1514.7	1504.4
22.5°	6172.9	6087.4	5217.4	3516.3	2353.6	1859.0	1626.1	1519.9	1460.3	1395.6	1385.3
25°	6737.2	6636.3	5326.1	3228.9	2149.1	1696.0	1507.0	1418.9	1349.0	1273.9	1266.2
27.5°	7527.0	7345.8	5455.6	2993.2	1973.0	1556.2	1398.2	1299.8	1219.5	1157.4	1144.4
30°	8407.4	8109.6	5569.5	2850.8	1812.5	1426.7	1255.8	1157.4	1082.3	1038.3	1030.5
32.5°	9241.1	8837.1	5644.6	2788.6	1667.5	1279.1	1100.4	994.2	937.4	924.3	932.1
35°	10028.2	9494.9	5636.9	2729.1	1538.0	1131.5	947.7	839.0	794.9	802.7	802.7
37.5°	10934.5	10196.5	5582.5	2635.9	1431.8	996.9	815.6	719.9	681.0	683.6	693.9
40°	11988.3	11007.0	5548.8	2459.8	1315.4	872.6	706.8	629.1	600.8	590.4	587.7
42.5°	13112.0	11791.5	5554.0	2260.4	1170.3	761.3	631.8	567.0	541.2	533.4	530.8
45°	14240.9	12539.8	5561.8	2053.3	1017.6	675.8	577.4	523.1	507.5	497.1	497.1
47.5°	15302.5	13176.8	5416.7	1830.6	867.4	611.1	533.4	497.1	484.2	471.3	471.3
50°	16291.7	13601.4	5067.2	1571.7	748.2	559.2	499.7	473.9	460.8	447.9	447.9
52.5°	17060.7	13668.8	4489.8	1305.0	665.4	520.4	479.0	455.7	440.1	427.2	424.7
55°	17402.4	13246.7	3669.0	1056.5	600.8	486.8	458.3	435.0	416.9	404.0	401.3
57.5°	17314.4	12358.5	2861.2	849.3	538.5	453.2	432.4	416.9	396.2	375.5	372.9
60°	16882.1	11170.1	2156.9	706.8	481.6	416.9	404.0	390.9	362.5	331.4	326.3
62.5°	16133.7	9676.1	1538.0	585.2	419.4	375.5	370.2	359.9	318.5	261.5	256.4
65°	14989.3	7861.0	1035.7	486.8	359.9	328.8	331.4	313.3	258.9	194.2	189.0
67.5°	13316.6	5748.2	662.9	398.7	300.3	274.5	277.1	266.7	220.1	165.7	158.0
70°	11185.6	3806.2	432.4	303.0	240.8	212.3	227.9	230.4	186.4	134.7	129.5
72.5°	8200.2	2247.5	303.0	225.3	176.1	147.6	186.4	191.6	150.2	101.0	95.8
75°	4673.6	1066.8	227.9	163.1	108.8	103.5	145.0	145.0	103.5	67.3	62.1
77.5°	1962.7	445.4	160.5	106.2	62.1	59.6	98.4	90.6	51.8	31.1	31.1
80°	567.0	199.4	85.5	51.8	25.9	23.3	38.8	28.5	12.9	5.2	5.2
82.5°	222.6	88.0	33.6	20.7	10.4	10.4	5.2	0.0	0.0	0.0	0.0
85°	132.0	36.3	15.6	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.6	7.8	5.2	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)