

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: P964604

Luminaire Tested: **NAV-SB3C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964604
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-SB3C-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 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: 19110.1 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 149.1
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



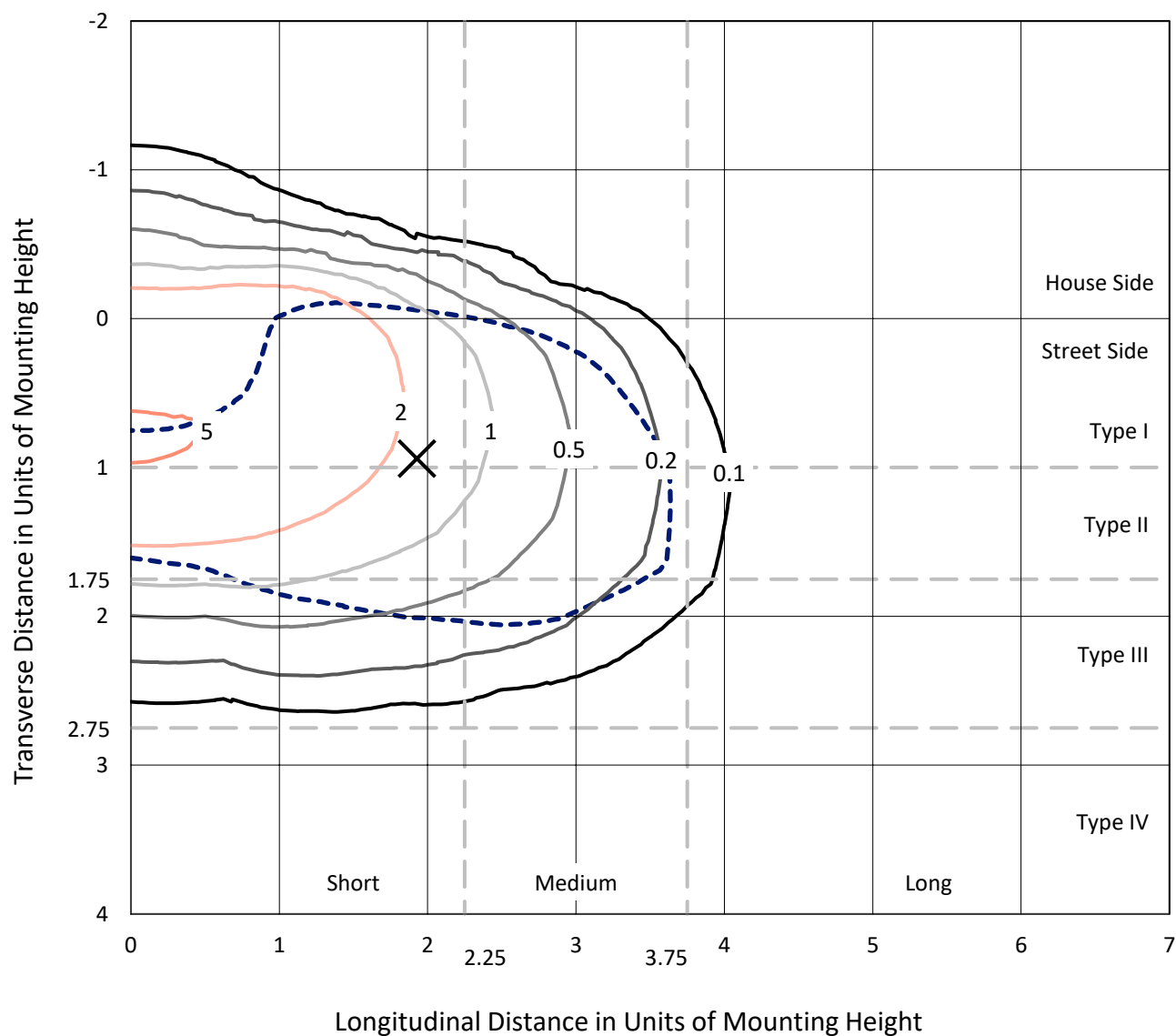
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



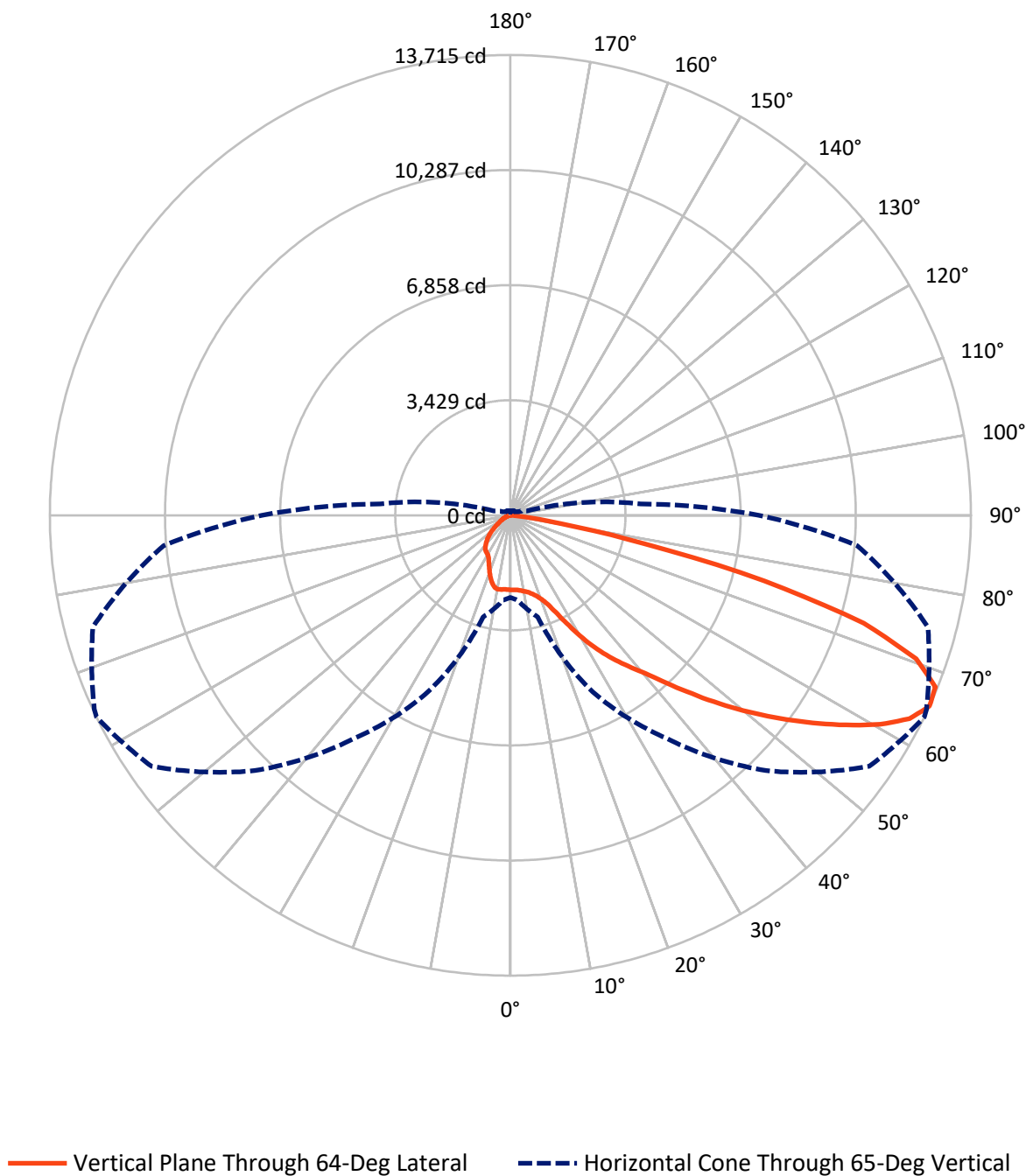
Based on 25 foot mounting height. Maximum calculated value = 5.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2555.6	0.0	2555.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	16554.5	0.0	16554.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	19110.1	0.0	19110.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	1.1
10°-20°	556.2	2.9
20°-30°	1053.9	5.5
30°-40°	2132.7	11.2
40°-50°	3633.1	19.0
50°-60°	4940.7	25.9
60°-70°	4639.6	24.3
70°-80°	1858.8	9.7
80°-90°	90.0	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°	19110.1	100.0
0°-180°	19110.1	100.0

Coefficient of Utilization



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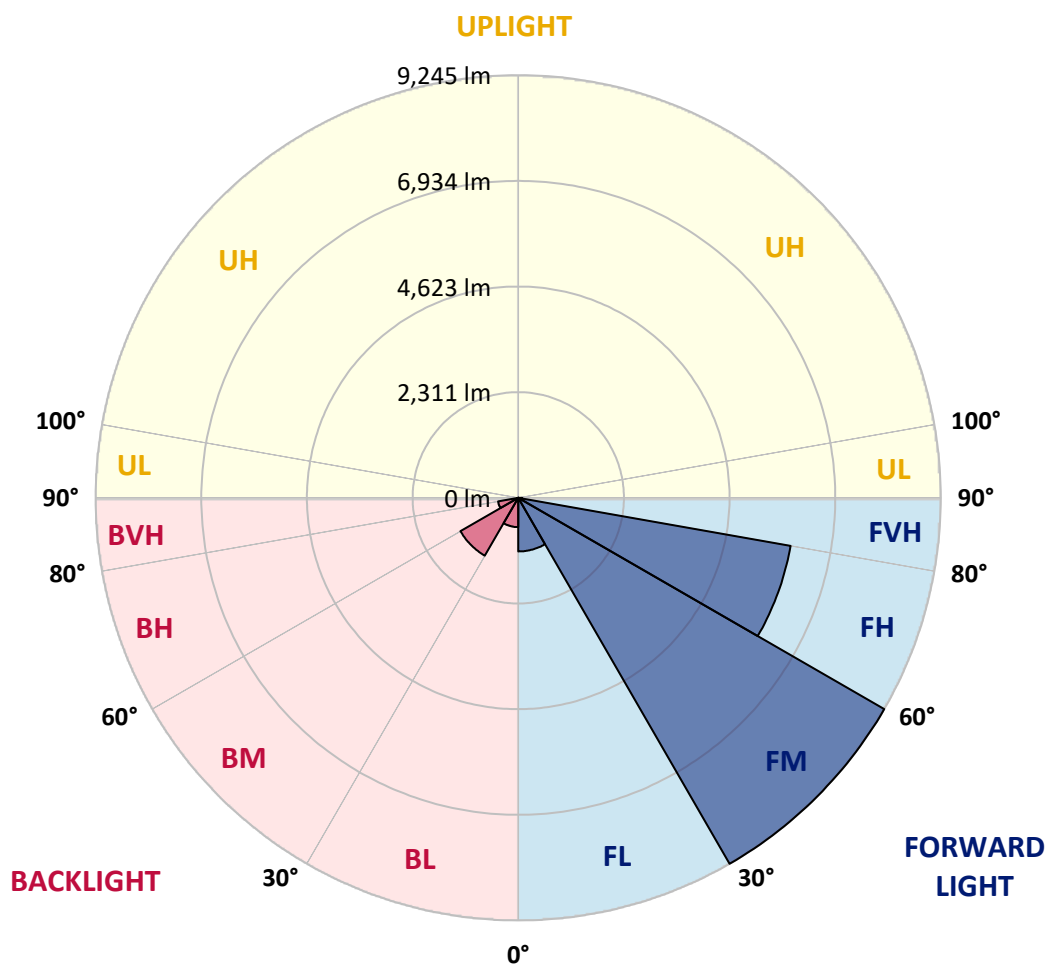
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.6	6.1			
FM	(30°-60°)	9245.4	48.4			
FH	(60°-80°)	6049.8	31.7			G3/7500
FVH	(80°-90°)	85.6	0.4			G1/100
BL	(0°-30°)	641.6	3.4	B2/1000		
BM	(30°-60°)	1461.0	7.6	B2/2500		
BH	(60°-80°)	448.5	2.3	B1/500		G1/500
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: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7
2.5°	2215.0	2230.4	2226.5	2222.7	2221.4	2223.9	2225.3	2223.9	2223.9	2223.9	2225.3
5°	2172.7	2185.5	2185.5	2194.5	2207.3	2222.7	2234.2	2236.8	2239.3	2243.2	2241.9
7.5°	2092.0	2102.3	2110.0	2139.5	2171.5	2212.5	2247.0	2264.9	2267.5	2281.6	2286.8
10°	2037.0	2049.8	2062.6	2093.4	2139.5	2200.9	2259.8	2303.4	2309.8	2343.1	2358.5
12.5°	2034.4	2047.2	2063.8	2097.1	2151.0	2216.3	2288.0	2350.8	2362.3	2411.0	2443.1
15°	2061.3	2076.6	2092.0	2133.0	2190.6	2270.1	2346.9	2425.1	2436.6	2505.8	2540.5
17.5°	2116.4	2136.9	2148.4	2189.4	2250.9	2339.3	2440.5	2530.2	2540.5	2621.1	2664.7
20°	2225.3	2249.6	2253.5	2286.8	2346.9	2441.8	2562.2	2673.6	2686.4	2778.7	2827.4
22.5°	2450.8	2485.3	2454.6	2471.3	2525.1	2619.8	2750.5	2891.4	2909.4	3014.4	3058.0
25°	2847.9	2896.5	2817.1	2788.9	2812.0	2910.7	3074.6	3252.7	3273.2	3357.8	3379.5
27.5°	3628.1	3565.3	3444.8	3327.0	3257.9	3314.2	3498.6	3719.0	3744.6	3826.6	3801.0
30°	4485.1	4430.0	4267.4	4006.0	3842.0	3833.1	4003.4	4249.4	4278.9	4357.0	4278.9
32.5°	5343.4	5290.9	5114.1	4792.6	4508.2	4367.2	4485.1	4757.9	4773.3	4823.3	4708.0
35°	6187.7	6133.9	5957.1	5627.9	5278.1	4957.8	4934.8	5242.3	5247.4	5299.9	5128.3
37.5°	7037.0	6992.2	6804.0	6481.1	6136.5	5694.5	5480.6	5700.8	5707.3	5758.6	5580.4
40°	7643.0	7662.3	7532.8	7283.0	6987.1	6504.1	6092.9	6189.0	6150.5	6236.4	6130.0
42.5°	8163.1	8201.5	8088.9	7963.3	7791.6	7366.3	6851.3	6834.7	6773.2	6819.3	6709.1
45°	8612.8	8644.8	8543.7	8514.2	8510.4	8211.8	7680.2	7580.3	7494.4	7485.5	7353.5
47.5°	8778.1	8839.6	8883.2	8981.8	9174.0	9048.4	8537.2	8382.2	8286.1	8215.7	8006.9
50°	8840.8	8906.2	9054.7	9341.7	9796.5	9850.4	9390.4	9216.2	9098.3	8970.3	8662.8
52.5°	8756.3	8872.9	9072.7	9555.7	10215.5	10493.4	10209.1	10056.6	9922.1	9713.3	9257.2
55°	8257.9	8374.6	8783.2	9553.1	10424.2	10944.4	10982.9	10914.9	10763.7	10434.5	9737.6
57.5°	7207.5	7380.4	8027.4	9227.8	10420.5	11332.6	11741.3	11790.0	11620.8	11149.3	10115.5
60°	5752.1	5986.6	6775.8	8506.5	10098.9	11542.7	12406.2	12649.5	12470.2	11854.0	10421.7
62.5°	4013.7	4285.3	5032.1	7376.5	9363.6	11391.5	12891.6	13341.3	13205.6	12484.3	10539.6
65°	2448.2	2535.3	3137.4	5804.7	8113.2	10758.6	13041.6	13715.4	13670.6	12869.9	10365.3
67.5°	1630.9	1703.9	1876.8	3980.4	6297.9	9494.2	12682.8	13650.1	13662.9	12807.2	9727.4
70°	982.6	1045.4	1158.1	2315.0	4081.6	7514.9	11572.1	12817.4	12891.6	11968.0	8518.1
72.5°	404.9	447.1	549.6	1049.2	2113.9	4769.5	9215.0	11004.6	11177.5	10063.0	6537.4
75°	229.3	251.1	322.9	526.5	917.3	2222.7	5581.7	7812.1	8067.1	6935.9	3932.9
77.5°	152.4	162.7	208.8	340.8	516.3	758.4	2385.4	4070.1	4556.8	3788.2	1702.6
80°	102.5	111.4	143.5	228.1	335.7	325.4	759.7	1507.9	1855.0	1301.5	415.1
82.5°	69.2	70.4	102.5	149.9	212.7	157.5	224.2	468.8	589.3	376.7	157.5
85°	39.7	38.4	75.5	87.1	94.8	65.3	67.9	140.9	184.5	158.9	89.7
87.5°	5.1	7.7	29.4	23.1	12.8	14.0	14.0	24.3	35.9	38.4	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7	2222.7
2.5°	2225.3	2223.9	2220.1	2216.3	2207.3	2202.2	2204.8	2202.2	2200.9	2202.2	2207.3
5°	2241.9	2238.1	2227.8	2215.0	2197.1	2175.3	2161.2	2140.7	2121.5	2110.0	2112.5
7.5°	2286.8	2282.9	2268.8	2233.0	2175.3	2084.3	2001.1	1928.0	1873.0	1840.9	1842.2
10°	2358.5	2352.1	2330.3	2250.9	2099.7	1901.2	1735.8	1598.8	1509.1	1466.9	1463.0
12.5°	2443.1	2435.4	2397.0	2234.2	1956.2	1646.3	1418.2	1265.8	1182.4	1145.3	1141.4
15°	2543.0	2532.8	2457.1	2154.8	1747.4	1364.4	1155.6	1041.5	987.7	954.4	955.7
17.5°	2667.3	2649.3	2502.0	2035.6	1520.7	1149.1	994.1	908.3	860.9	828.9	826.4
20°	2828.7	2799.2	2537.9	1893.5	1311.8	1013.3	885.2	813.5	777.7	749.5	744.4
22.5°	3054.1	3011.9	2581.4	1739.7	1164.5	919.8	804.5	752.0	722.5	690.5	685.4
25°	3333.4	3283.5	2635.2	1597.6	1063.3	839.2	745.6	702.0	667.5	630.3	626.5
27.5°	3724.1	3634.4	2699.2	1480.9	976.2	770.0	691.8	643.1	603.4	572.7	566.2
30°	4159.8	4012.4	2755.6	1410.5	896.8	705.9	621.4	572.7	535.5	513.7	509.8
32.5°	4572.2	4372.3	2792.8	1379.8	825.0	632.8	544.5	491.9	463.7	457.4	461.1
35°	4961.7	4697.8	2788.9	1350.2	761.0	559.9	468.8	415.1	393.3	397.2	397.2
37.5°	5410.1	5044.9	2762.1	1304.1	708.5	493.2	403.5	356.2	336.9	338.2	343.4
40°	5931.5	5445.9	2745.4	1217.1	650.8	431.7	349.7	311.3	297.2	292.1	290.8
42.5°	6487.4	5834.1	2747.9	1118.4	579.0	376.7	312.6	280.5	267.7	263.9	262.6
45°	7046.1	6204.3	2751.8	1015.9	503.5	334.4	285.7	258.8	251.1	246.0	246.0
47.5°	7571.3	6519.5	2680.1	905.7	429.2	302.4	263.9	246.0	239.5	233.2	233.2
50°	8060.7	6729.6	2507.1	777.7	370.2	276.8	247.2	234.4	228.1	221.6	221.6
52.5°	8441.2	6763.0	2221.4	645.6	329.2	257.5	237.0	225.5	217.8	211.4	210.1
55°	8610.2	6554.1	1815.3	522.6	297.2	240.9	226.7	215.2	206.2	199.9	198.5
57.5°	8566.7	6114.6	1415.6	420.2	266.5	224.2	213.9	206.2	196.0	185.7	184.5
60°	8352.7	5526.7	1067.1	349.7	238.3	206.2	199.9	193.4	179.4	164.0	161.4
62.5°	7982.5	4787.5	761.0	289.6	207.6	185.7	183.2	178.0	157.5	129.4	126.8
65°	7416.3	3889.4	512.4	240.9	178.0	162.7	164.0	155.0	128.1	96.0	93.5
67.5°	6588.7	2844.1	328.0	197.3	148.6	135.8	137.0	131.9	108.9	82.0	78.1
70°	5534.4	1883.2	213.9	149.9	119.1	105.1	112.7	114.0	92.2	66.6	64.1
72.5°	4057.3	1112.0	149.9	111.4	87.1	73.0	92.2	94.8	74.3	49.9	47.4
75°	2312.4	527.8	112.7	80.7	53.8	51.2	71.8	71.8	51.2	33.3	30.7
77.5°	971.1	220.4	79.4	52.5	30.7	29.4	48.7	44.8	25.6	15.4	15.4
80°	280.5	98.6	42.2	25.6	12.8	11.5	19.2	14.0	6.4	2.6	2.6
82.5°	110.2	43.6	16.6	10.2	5.1	5.1	2.6	0.0	0.0	0.0	0.0
85°	65.3	17.9	7.7	3.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	3.8	2.6	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)