

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: P964729

Luminaire Tested: **NAV-SB3C-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964729
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-SB3C-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 17229.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

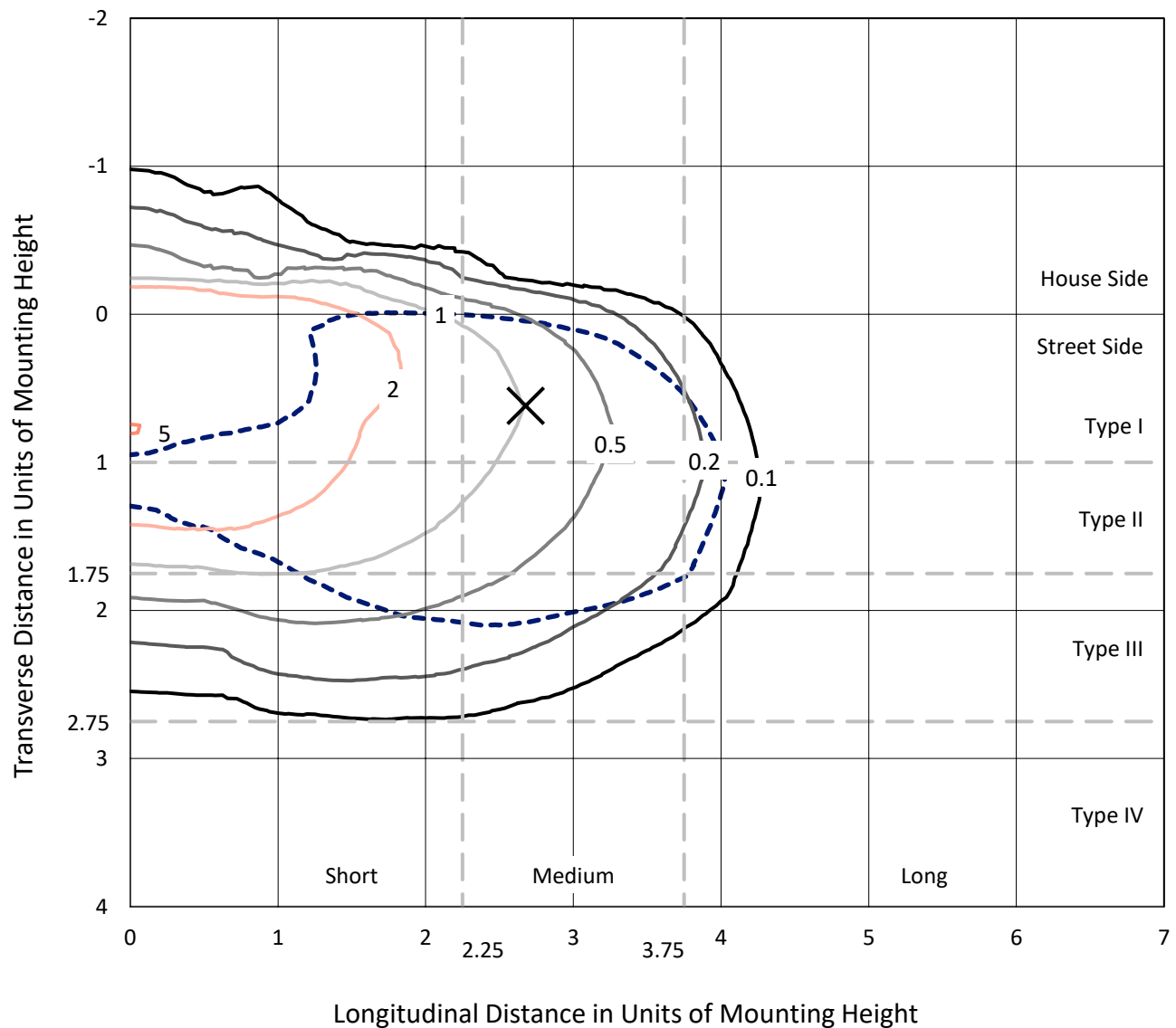


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Iso-Footcandle Lines of Horizontal Illumination

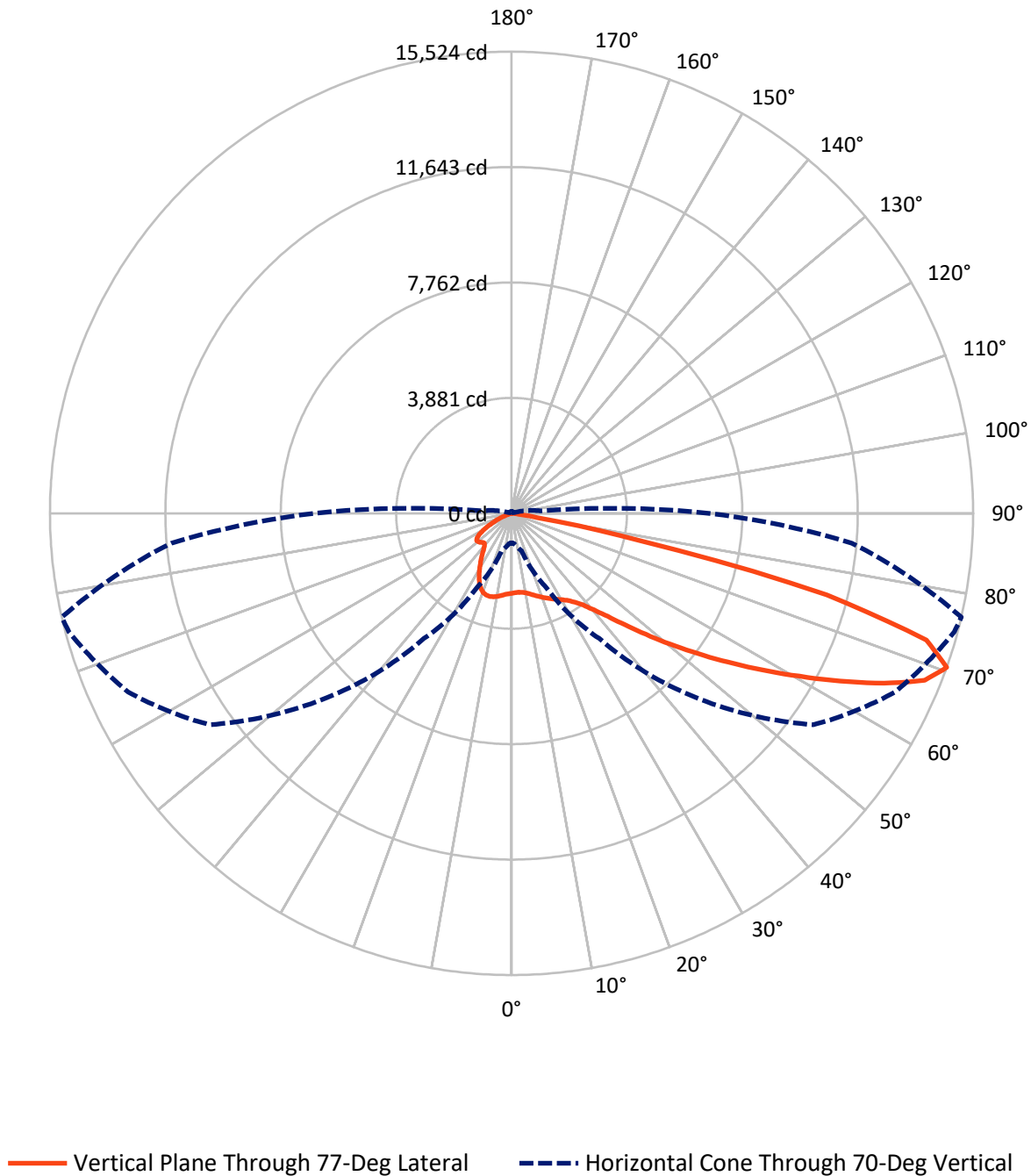
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1816.2	0.0	1816.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15413.0	0.0	15413.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	17229.2	0.0	17229.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	1.3
10°-20°	549.8	3.2
20°-30°	850.4	4.9
30°-40°	1543.2	9.0
40°-50°	2912.9	16.9
50°-60°	4208.9	24.4
60°-70°	4480.2	26.0
70°-80°	2374.2	13.8
80°-90°	78.0	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°	17229.2	100.0
0°-180°	17229.2	100.0

Coefficient of Utilization



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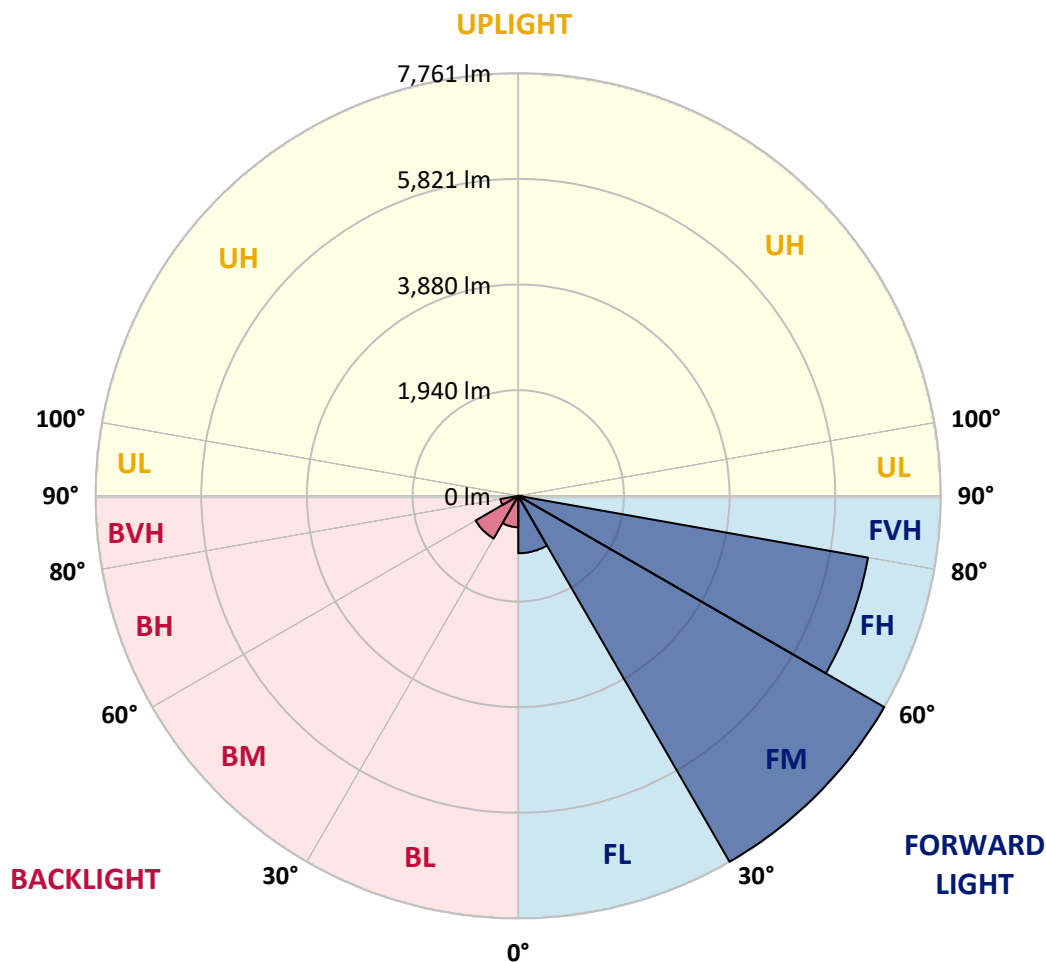
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.8	6.1			
FM	(30°-60°)	7760.8	45.0			
FH	(60°-80°)	6521.5	37.9			G3/7500
FVH	(80°-90°)	75.9	0.4			G1/100
BL	(0°-30°)	577.0	3.3	B2/1000		
BM	(30°-60°)	904.1	5.2	B1/1000		
BH	(60°-80°)	333.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4
2.5°	2523.1	2546.0	2542.7	2558.0	2563.4	2585.2	2606.9	2636.3	2669.0	2667.9	2689.6
5°	2380.7	2403.4	2409.0	2429.6	2455.7	2489.4	2534.0	2592.8	2653.7	2663.5	2707.0
7.5°	2212.0	2235.9	2250.1	2291.4	2339.3	2409.0	2481.8	2567.7	2669.0	2683.1	2766.9
10°	2043.3	2065.1	2083.6	2142.4	2218.5	2321.8	2440.4	2564.5	2700.5	2721.2	2839.8
12.5°	1938.9	1959.6	1980.2	2031.3	2126.1	2252.2	2413.3	2579.7	2752.7	2782.2	2938.8
15°	1901.9	1920.3	1936.7	1982.4	2070.5	2214.1	2407.8	2611.3	2819.1	2858.3	3058.5
17.5°	1907.3	1917.2	1928.0	1962.8	2048.8	2196.8	2417.6	2665.7	2897.5	2932.2	3178.1
20°	1938.9	1944.3	1945.4	1969.3	2045.5	2194.5	2437.2	2717.9	2971.5	3018.2	3296.7
22.5°	1979.2	1981.3	1979.2	1995.5	2066.2	2210.9	2463.3	2781.0	3054.1	3097.7	3416.4
25°	2167.4	2126.1	2073.8	2042.2	2101.0	2242.4	2502.4	2865.9	3144.4	3186.8	3532.9
27.5°	2751.6	2633.0	2445.9	2235.9	2172.8	2288.1	2556.9	2951.8	3235.8	3273.8	3658.0
30°	3700.5	3544.9	3227.1	2753.9	2403.4	2383.8	2627.6	3037.8	3332.7	3374.0	3791.8
32.5°	4651.3	4613.3	4246.6	3591.6	2922.5	2597.1	2745.2	3154.2	3461.0	3493.7	3972.4
35°	5613.2	5535.9	5235.6	4588.2	3722.2	3031.2	2940.9	3306.5	3629.7	3666.6	4235.7
37.5°	6349.8	6303.0	6116.9	5583.8	4670.9	3701.5	3276.1	3542.6	3874.5	3915.8	4573.0
40°	7000.4	6978.6	6915.6	6564.1	5731.8	4578.5	3797.2	3908.2	4214.0	4262.9	4986.4
42.5°	7511.8	7563.0	7598.8	7500.9	6825.3	5579.5	4497.9	4421.7	4687.2	4737.3	5513.1
45°	8035.2	8052.5	8197.2	8338.7	7911.2	6626.1	5287.9	5023.4	5275.9	5337.9	6144.2
47.5°	8371.4	8441.0	8695.6	8944.8	8823.9	7664.1	6136.5	5734.0	5958.1	6074.5	6851.4
50°	8396.4	8528.0	8878.3	9312.5	9488.7	8652.0	7059.2	6543.4	6781.7	6910.1	7606.4
52.5°	7979.6	8184.2	8727.2	9362.6	9847.8	9488.7	8013.3	7352.9	7658.7	7826.3	8389.8
55°	6118.0	6385.6	8158.1	9090.5	9861.9	10123.1	8942.6	8196.2	8635.7	8825.0	9236.4
57.5°	5330.3	5465.2	6413.9	8618.3	9599.7	10378.7	9782.5	8999.2	9698.8	9933.8	10036.1
60°	4434.9	4612.2	5379.2	7845.9	9244.0	10403.8	10524.6	10035.0	10851.0	11115.4	10769.4
62.5°	3013.8	3206.4	3969.1	6518.4	8757.6	10391.9	11132.7	11101.3	12131.6	12415.6	11390.6
65°	1867.0	1987.9	2490.5	5322.6	8077.6	10404.9	11769.3	12395.9	13483.0	13771.3	11871.6
67.5°	1475.4	1530.8	1793.0	4086.7	6905.7	10111.1	12404.7	13613.5	14754.9	14983.3	12018.4
70°	991.2	1024.9	1304.5	2739.7	5137.7	8755.4	12392.8	14225.0	15409.8	15524.1	11483.2
72.5°	522.2	548.4	762.7	1268.6	3103.1	6223.6	10446.2	13493.8	14758.2	14586.2	9815.2
75°	261.2	304.6	513.5	644.1	1325.2	3470.9	6486.9	10638.8	11615.9	10950.0	6297.6
77.5°	198.0	239.3	424.4	424.4	461.4	1168.5	2747.3	5802.5	5352.0	4456.6	1848.6
80°	126.2	163.2	371.0	320.9	192.6	297.0	716.0	1625.5	1137.0	865.0	336.2
82.5°	74.0	106.6	309.0	212.2	107.7	109.9	202.3	346.0	294.9	229.6	103.3
85°	29.4	69.6	212.2	83.7	42.4	27.2	60.9	74.0	60.9	45.7	26.1
87.5°	0.0	16.3	37.0	0.0	3.3	2.2	4.3	5.4	5.4	4.3	8.7
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°	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4	2687.4
2.5°	2699.4	2701.6	2708.2	2709.2	2694.0	2674.4	2666.7	2663.5	2650.4	2649.3	2651.6
5°	2732.0	2741.9	2732.0	2703.7	2636.3	2541.7	2469.8	2411.1	2357.8	2341.4	2331.7
7.5°	2797.3	2807.2	2777.7	2666.7	2497.0	2308.8	2139.1	2019.4	1911.7	1871.4	1855.1
10°	2890.9	2903.9	2811.5	2587.3	2287.1	1984.6	1697.3	1495.0	1337.2	1273.0	1245.8
12.5°	3008.4	3013.8	2830.0	2466.6	2013.9	1582.0	1175.1	958.6	818.2	766.0	749.7
15°	3137.9	3130.2	2832.2	2302.3	1641.8	1118.5	767.1	630.0	573.4	556.0	556.0
17.5°	3273.8	3242.4	2788.6	2065.1	1233.8	764.9	569.1	536.4	526.6	522.2	521.2
20°	3407.7	3337.0	2709.2	1755.0	885.7	571.2	516.8	507.1	501.6	499.4	497.2
22.5°	3529.6	3408.8	2573.2	1394.8	643.0	504.8	488.5	479.8	470.1	465.7	464.6
25°	3648.2	3450.2	2381.7	1058.6	514.7	472.2	459.2	442.8	429.8	424.4	422.2
27.5°	3763.5	3476.3	2142.4	783.4	459.2	441.8	417.8	394.9	385.2	382.9	380.8
30°	3886.5	3485.0	1870.3	584.2	425.4	403.6	368.8	342.8	337.3	338.4	338.4
32.5°	4036.7	3498.0	1596.1	478.8	397.1	357.9	316.6	289.5	285.1	289.5	288.3
35°	4216.1	3524.2	1331.8	440.6	372.1	311.2	266.6	243.7	239.3	242.6	241.6
37.5°	4459.9	3566.6	1084.8	433.1	351.5	272.0	224.2	205.6	205.6	206.7	205.6
40°	4784.1	3679.7	863.9	427.6	340.5	242.6	189.3	181.7	185.0	187.2	187.2
42.5°	5179.0	3920.2	714.8	421.1	328.6	229.6	171.9	168.6	174.0	176.3	176.3
45°	5621.9	4224.8	662.7	410.2	317.8	238.3	164.3	159.9	166.5	167.6	168.6
47.5°	6080.0	4522.9	656.1	398.2	306.8	251.3	162.2	152.3	159.9	161.0	162.2
50°	6543.4	4717.8	662.7	379.8	289.5	251.3	163.2	144.7	151.2	154.5	155.6
52.5°	7010.2	4806.9	658.3	339.5	258.9	236.1	163.2	138.2	144.7	146.9	146.9
55°	7462.8	4789.5	591.9	279.6	219.8	208.9	158.9	132.7	137.0	138.2	138.2
57.5°	7820.7	4546.9	468.9	217.6	178.5	174.0	144.7	126.2	129.5	128.4	128.4
60°	8007.9	4013.8	335.1	167.6	140.3	137.0	127.3	117.5	119.7	114.3	113.2
62.5°	8010.1	3308.7	224.2	132.7	112.0	108.8	108.8	105.6	103.3	92.5	89.2
65°	7839.3	2526.4	149.0	105.6	90.3	84.9	91.4	90.3	82.7	67.4	65.3
67.5°	7452.0	1656.0	113.2	82.7	69.6	66.4	72.9	76.2	70.7	56.6	55.5
70°	6655.5	964.0	93.6	64.2	52.3	49.0	58.7	65.3	58.7	45.7	43.6
72.5°	5528.3	520.1	76.2	47.9	35.9	32.6	46.7	53.3	46.7	33.7	32.6
75°	3587.3	278.5	58.7	31.6	18.4	20.7	34.8	39.2	32.6	21.7	19.6
77.5°	1204.5	122.9	37.0	15.3	8.7	8.7	20.7	24.0	15.3	7.6	6.6
80°	268.8	51.1	15.3	6.6	3.3	3.3	4.3	4.3	2.2	0.0	0.0
82.5°	88.1	20.7	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.7	7.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	1.1	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)