

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: P965256

Luminaire Tested: **NAV-SB3D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965256
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-SB3D-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

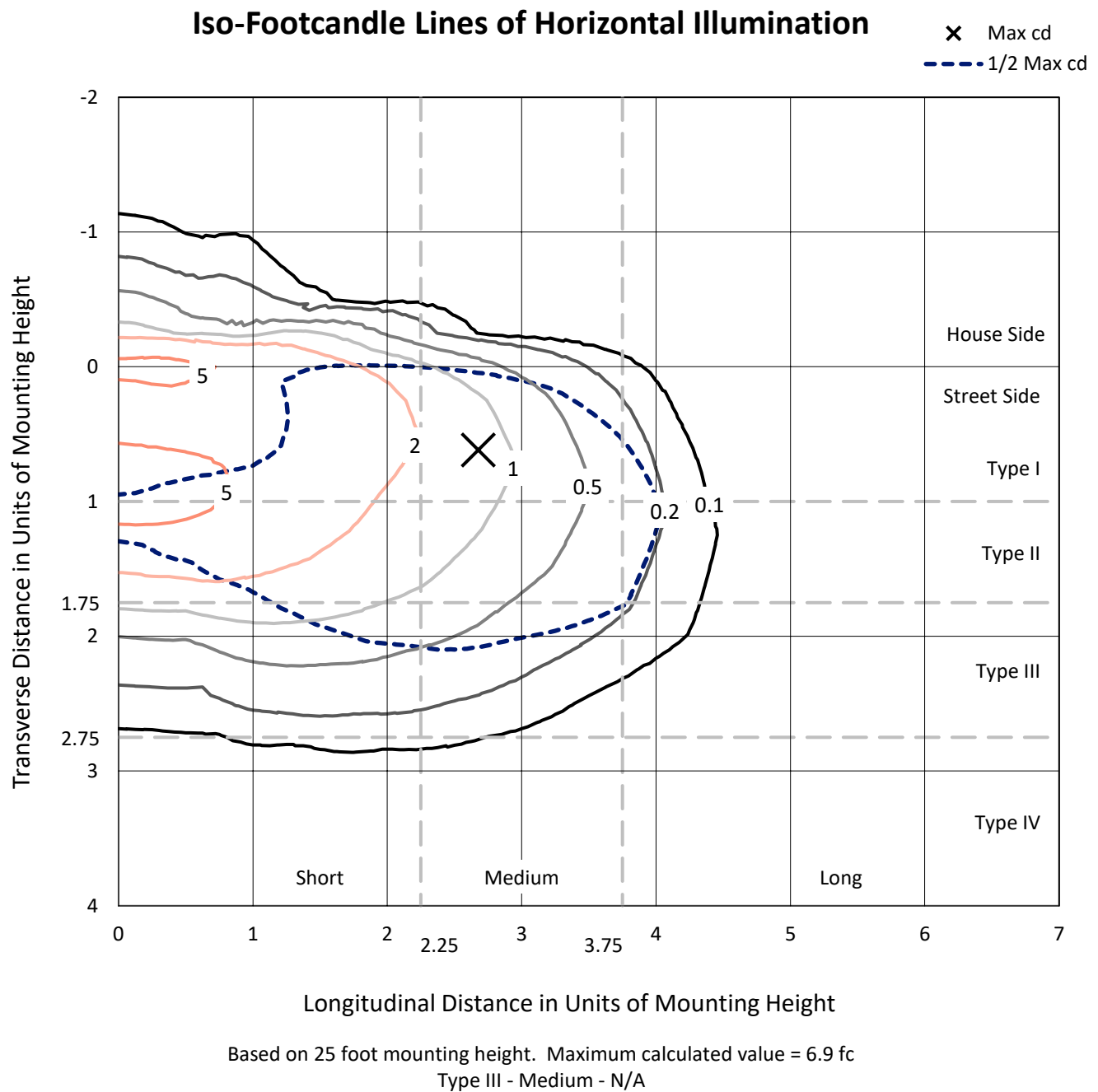
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23411 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

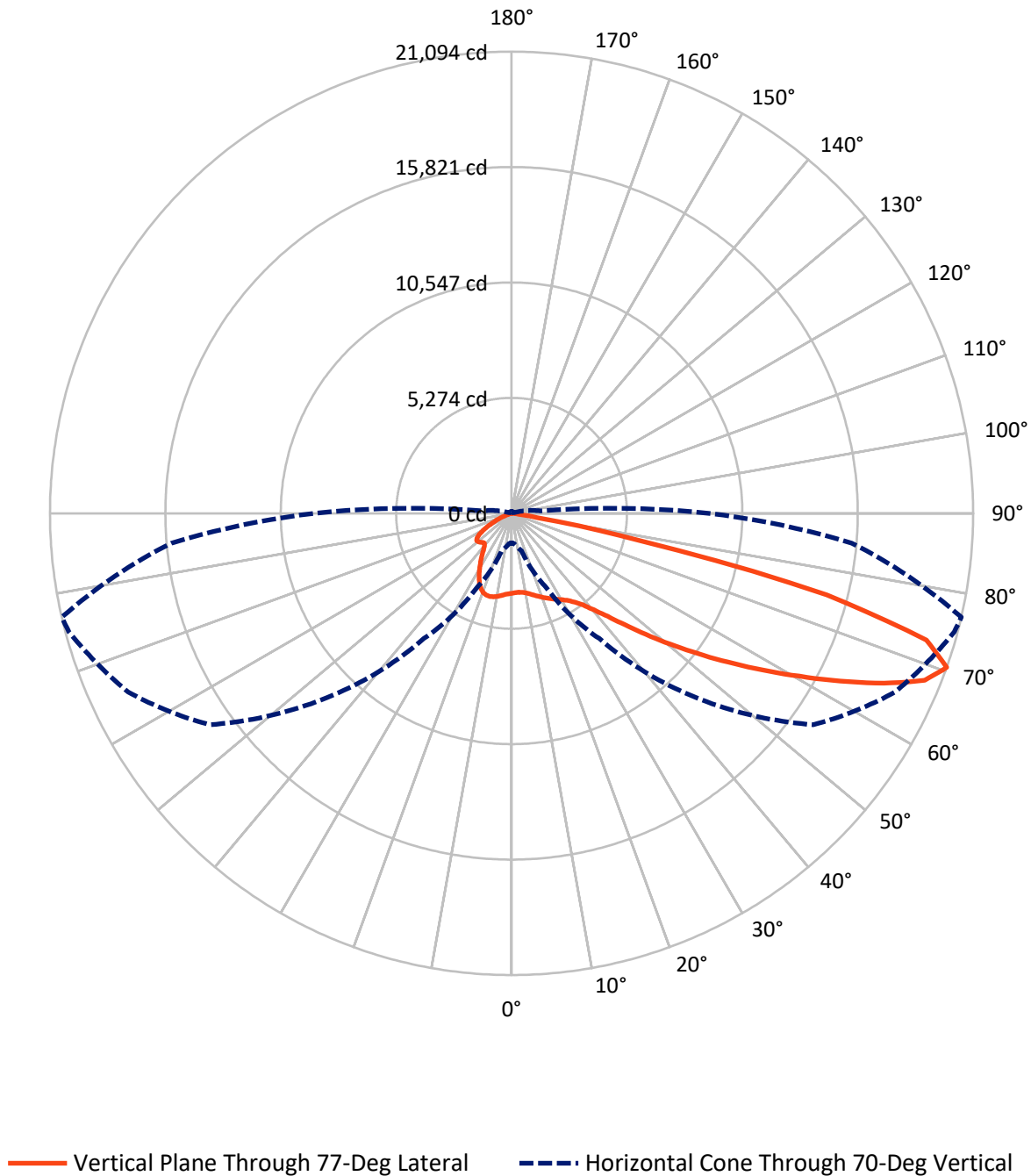


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.8	0.0	2467.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20943.1	0.0	20943.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	23411.0	0.0	23411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.7	1.3
10°-20°	747.1	3.2
20°-30°	1155.6	4.9
30°-40°	2096.8	9.0
40°-50°	3958.0	16.9
50°-60°	5719.0	24.4
60°-70°	6087.7	26.0
70°-80°	3226.1	13.8
80°-90°	105.9	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°	23411.0	100.0
0°-180°	23411.0	100.0

Coefficient of Utilization



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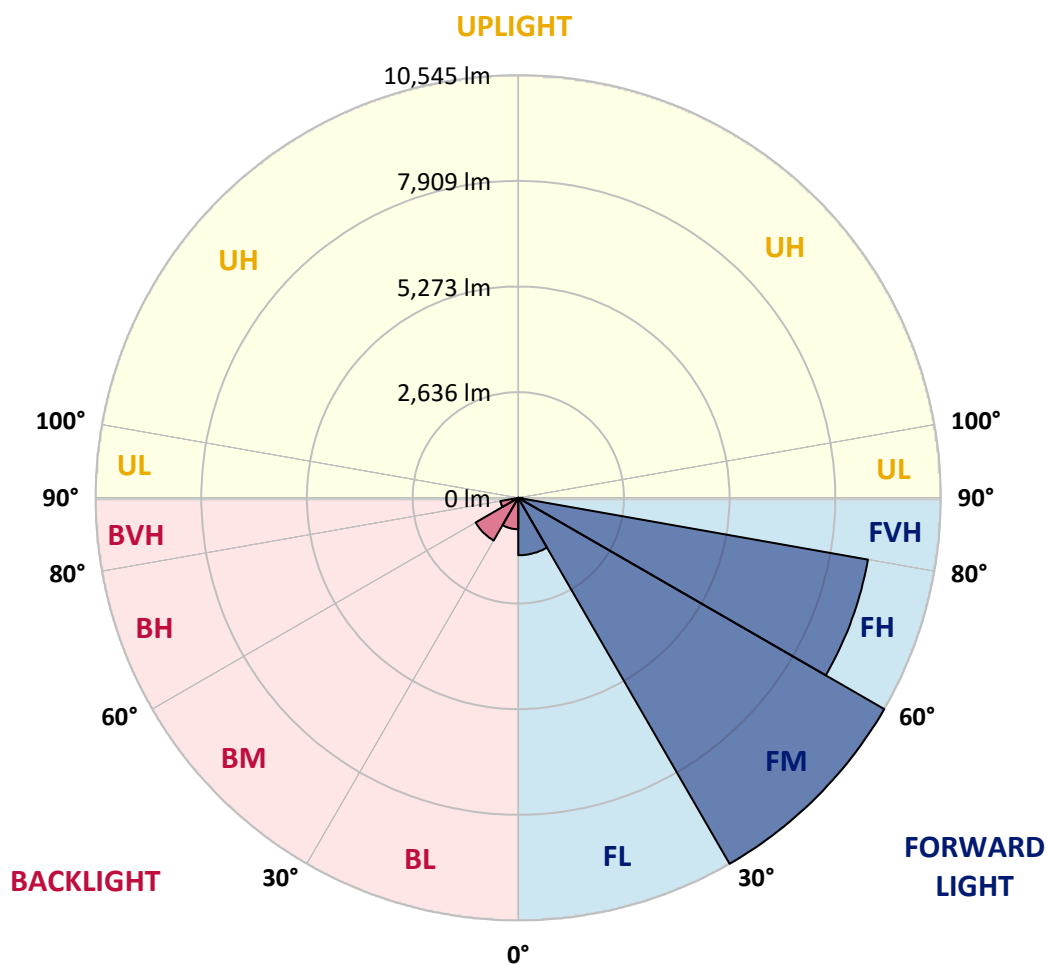
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1433.3	6.1			
FM	(30°-60°)	10545.4	45.0			
FH	(60°-80°)	8861.4	37.9			G4/12000
FVH	(80°-90°)	103.1	0.4			G2/225
BL	(0°-30°)	784.1	3.3	B2/1000		
BM	(30°-60°)	1228.5	5.2	B2/2500		
BH	(60°-80°)	452.4	1.9	B1/500		G1/500
BVH	(80°-90°)	2.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7
2.5°	3428.4	3459.5	3455.1	3475.8	3483.2	3512.7	3542.3	3582.2	3626.6	3625.1	3654.6
5°	3234.8	3265.9	3273.2	3301.3	3336.8	3382.6	3443.3	3523.0	3605.8	3619.2	3678.3
7.5°	3005.6	3038.1	3057.4	3113.5	3178.6	3273.2	3372.2	3489.1	3626.6	3645.8	3759.6
10°	2776.5	2806.0	2831.2	2911.0	3014.5	3155.0	3316.1	3484.6	3669.4	3697.5	3858.7
12.5°	2634.6	2662.6	2690.7	2760.2	2888.9	3060.3	3279.2	3505.3	3740.4	3780.3	3993.2
15°	2584.2	2609.4	2631.6	2693.7	2813.4	3008.6	3271.7	3548.2	3830.6	3883.8	4155.9
17.5°	2591.7	2604.9	2619.8	2667.0	2783.9	2984.9	3285.0	3622.1	3937.0	3984.4	4318.4
20°	2634.6	2641.9	2643.4	2676.0	2779.4	2981.9	3311.7	3693.1	4037.6	4101.1	4479.6
22.5°	2689.3	2692.2	2689.3	2711.4	2807.5	3004.2	3347.1	3778.9	4149.9	4209.1	4642.2
25°	2945.0	2888.9	2817.8	2775.0	2854.8	3047.0	3400.3	3894.2	4272.6	4330.3	4800.4
27.5°	3738.9	3577.8	3323.5	3038.1	2952.4	3109.1	3474.2	4010.9	4396.8	4448.6	4970.4
30°	5028.1	4816.7	4385.0	3741.9	3265.9	3239.2	3570.4	4127.8	4528.3	4584.6	5152.3
32.5°	6320.3	6268.5	5770.2	4880.2	3971.1	3529.0	3730.1	4285.9	4702.8	4747.2	5397.8
35°	7627.1	7522.2	7114.1	6234.5	5057.7	4118.9	3996.2	4492.9	4932.0	4982.3	5755.5
37.5°	8628.0	8564.5	8311.6	7587.3	6346.8	5029.6	4451.5	4813.7	5264.6	5320.9	6213.8
40°	9512.1	9482.6	9396.8	8919.3	7788.3	6221.1	5159.6	5310.5	5726.0	5792.5	6775.6
42.5°	10206.9	10276.4	10325.2	10192.2	9274.1	7581.3	6111.8	6008.2	6369.0	6437.0	7491.1
45°	10918.1	10941.8	11138.4	11330.6	10749.6	9003.6	7185.1	6825.9	7168.8	7253.1	8348.6
47.5°	11374.9	11469.5	11815.5	12154.0	11989.9	10414.0	8338.3	7791.2	8095.9	8254.0	9309.6
50°	11409.0	11587.8	12063.9	12653.8	12893.3	11756.3	9591.9	8891.2	9215.0	9389.4	10335.6
52.5°	10842.8	11120.6	11858.4	12721.8	13381.2	12893.3	10888.6	9991.2	10406.6	10634.3	11400.0
55°	8313.2	8676.8	11085.2	12352.2	13400.3	13755.2	12151.2	11136.9	11734.2	11991.5	12550.3
57.5°	7242.8	7426.1	8715.3	11710.5	13044.0	14102.7	13292.5	12228.0	13178.6	13497.9	13636.9
60°	6026.1	6267.1	7309.3	10660.9	12560.7	14136.6	14300.7	13635.5	14744.2	15103.5	14633.4
62.5°	4095.2	4356.9	5393.2	8857.2	11899.8	14120.4	15127.2	15084.3	16484.4	16870.3	15477.6
65°	2537.0	2701.1	3384.1	7232.4	10975.8	14138.1	15992.0	16843.6	18320.5	18712.3	16131.0
67.5°	2004.7	2080.1	2436.4	5552.9	9383.6	13738.9	16855.4	18498.0	20048.8	20359.3	16330.6
70°	1346.8	1392.7	1772.6	3722.7	6981.1	11896.9	16839.2	19328.8	20938.8	21094.1	15603.3
72.5°	709.6	745.1	1036.4	1723.8	4216.4	8456.6	14194.3	18335.3	20053.3	19819.7	13336.8
75°	354.9	414.0	697.8	875.2	1800.7	4716.1	8814.3	14456.0	15783.6	14878.8	8557.1
77.5°	269.1	325.2	576.6	576.6	626.9	1587.8	3733.0	7884.4	7272.4	6055.6	2511.9
80°	171.5	221.8	504.1	436.1	261.7	403.6	972.8	2208.8	1545.0	1175.4	456.8
82.5°	100.6	144.9	419.8	288.3	146.4	149.3	275.0	470.2	400.7	311.9	140.4
85°	39.9	94.6	288.3	113.9	57.7	37.0	82.8	100.6	82.8	62.1	35.5
87.5°	0.0	22.1	50.2	0.0	4.4	3.0	5.9	7.4	7.4	5.9	11.8
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°	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7	3651.7
2.5°	3668.0	3670.9	3679.7	3681.3	3660.6	3633.9	3623.6	3619.2	3601.4	3599.9	3602.9
5°	3712.3	3725.6	3712.3	3673.9	3582.2	3453.6	3356.1	3276.2	3203.7	3181.6	3168.3
7.5°	3801.0	3814.3	3774.4	3623.6	3393.0	3137.2	2906.6	2743.9	2597.6	2542.9	2520.7
10°	3928.1	3945.9	3820.3	3515.6	3107.6	2696.7	2306.4	2031.3	1817.0	1729.8	1692.8
12.5°	4087.8	4095.2	3845.4	3351.5	2736.5	2149.6	1596.6	1302.5	1111.8	1040.8	1018.6
15°	4263.8	4253.4	3848.4	3128.3	2230.9	1519.8	1042.3	856.0	779.1	755.4	755.4
17.5°	4448.6	4405.7	3789.2	2806.0	1676.5	1039.4	773.3	728.9	715.6	709.6	708.2
20°	4630.4	4534.3	3681.3	2384.7	1203.5	776.1	702.2	688.9	681.5	678.6	675.7
22.5°	4796.0	4631.9	3496.5	1895.3	873.7	686.0	663.8	652.0	638.7	632.7	631.3
25°	4957.1	4688.0	3236.2	1438.5	699.3	641.6	623.9	601.7	583.9	576.6	573.6
27.5°	5113.8	4723.5	2911.0	1064.5	623.9	600.2	567.7	536.7	523.4	520.4	517.4
30°	5280.9	4735.4	2541.4	793.9	578.1	548.5	501.2	465.7	458.3	459.8	459.8
32.5°	5485.0	4753.1	2168.8	650.5	539.7	486.4	430.2	393.3	387.3	393.3	391.8
35°	5728.8	4788.6	1809.5	598.8	505.6	422.8	362.2	331.2	325.2	329.6	328.2
37.5°	6060.0	4846.3	1473.9	588.5	477.5	369.6	304.5	279.4	279.4	280.8	279.4
40°	6500.7	5000.1	1173.8	581.0	462.8	329.6	257.3	246.9	251.3	254.3	254.3
42.5°	7037.2	5326.7	971.3	572.2	446.5	311.9	233.6	229.2	236.6	239.5	239.5
45°	7639.0	5740.7	900.4	557.4	431.7	323.8	223.2	217.3	226.2	227.7	229.2
47.5°	8261.4	6145.8	891.4	541.1	416.9	341.5	220.3	206.9	217.3	218.8	220.3
50°	8891.2	6410.5	900.4	516.0	393.3	341.5	221.8	196.6	205.5	209.9	211.5
52.5°	9525.4	6531.6	894.4	461.2	351.9	320.8	221.8	187.8	196.6	199.6	199.6
55°	10140.4	6508.0	804.2	380.0	298.7	283.8	215.9	180.4	186.2	187.8	187.8
57.5°	10626.9	6178.3	637.2	295.7	242.4	236.6	196.6	171.5	175.9	174.5	174.5
60°	10881.2	5453.9	455.3	227.7	190.8	186.2	173.0	159.7	162.7	155.2	153.8
62.5°	10884.1	4495.9	304.5	180.4	152.3	147.8	147.8	143.4	140.4	125.7	121.3
65°	10652.0	3432.9	202.5	143.4	122.7	115.3	124.2	122.7	112.3	91.6	88.7
67.5°	10125.7	2250.2	153.8	112.3	94.6	90.2	99.0	103.5	96.1	76.9	75.4
70°	9043.5	1309.8	127.1	87.2	70.9	66.5	79.8	88.7	79.8	62.1	59.1
72.5°	7511.8	706.6	103.5	65.1	48.8	44.4	63.6	72.5	63.6	45.8	44.4
75°	4874.4	378.4	79.8	42.8	25.1	28.1	47.4	53.2	44.4	29.5	26.6
77.5°	1636.6	167.1	50.2	20.7	11.8	11.8	28.1	32.5	20.7	10.4	8.9
80°	365.2	69.5	20.7	8.9	4.4	4.4	5.9	5.9	3.0	0.0	0.0
82.5°	119.7	28.1	8.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.8	10.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	1.4	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)