

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: P970805

Luminaire Tested: **NAV-SB6C-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970805
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-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 32014.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

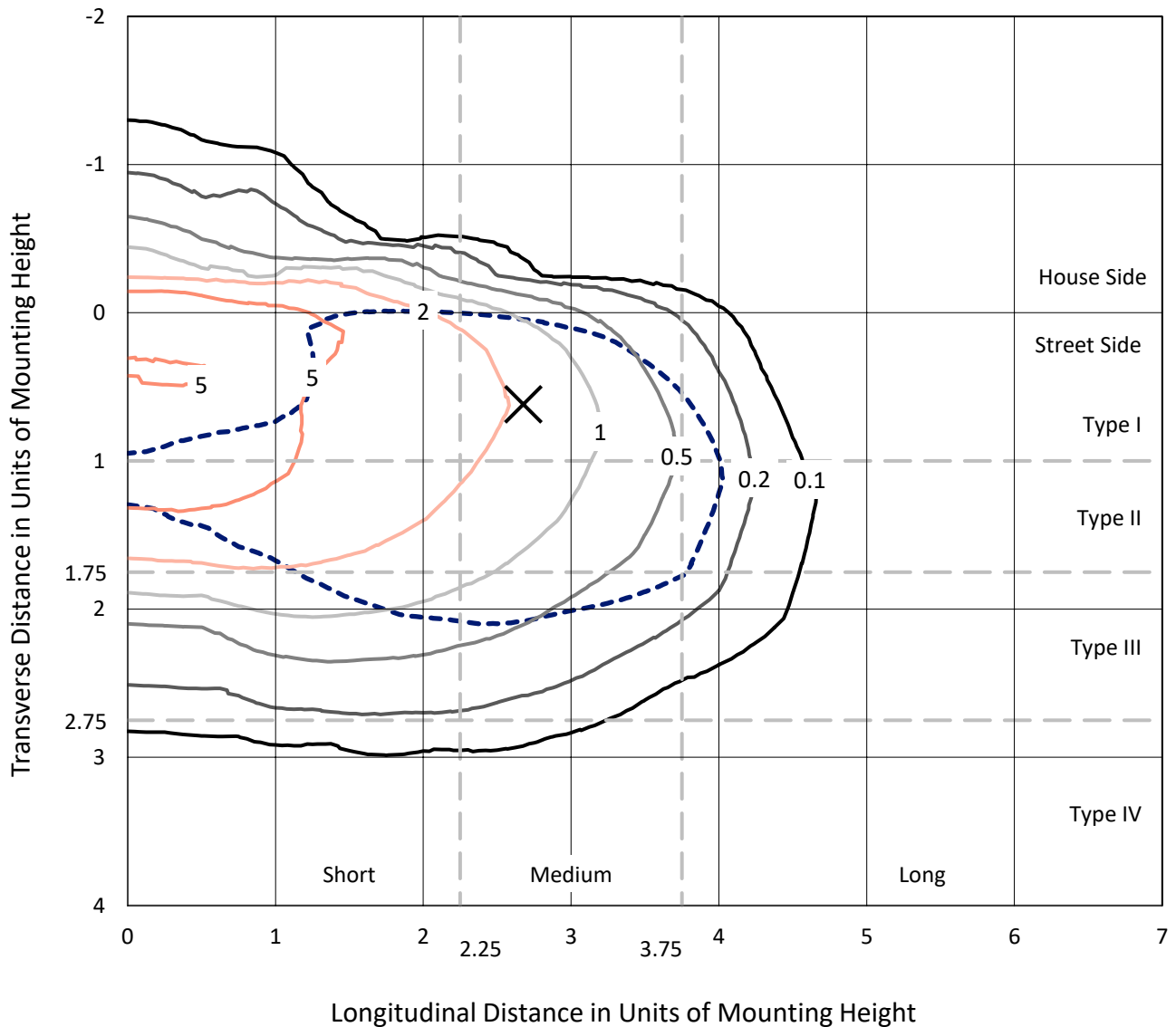
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

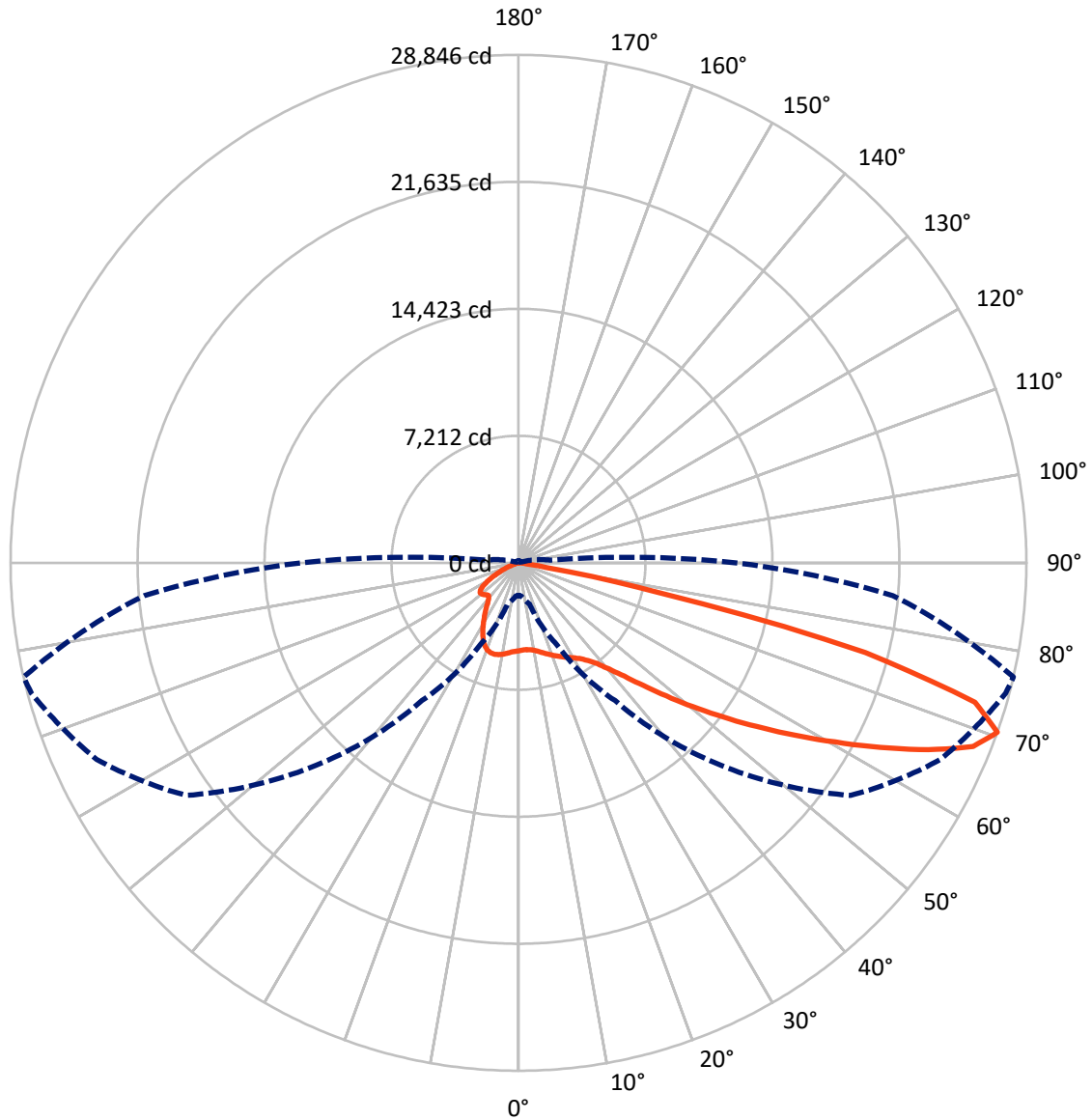
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3374.8	0.0	3374.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28640.0	0.0	28640.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	32014.9	0.0	32014.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	1.3
10°-20°	1021.7	3.2
20°-30°	1580.2	4.9
30°-40°	2867.4	9.0
40°-50°	5412.6	16.9
50°-60°	7820.8	24.4
60°-70°	8325.1	26.0
70°-80°	4411.7	13.8
80°-90°	144.9	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°	32014.9	100.0
0°-180°	32014.9	100.0

Coefficient of Utilization

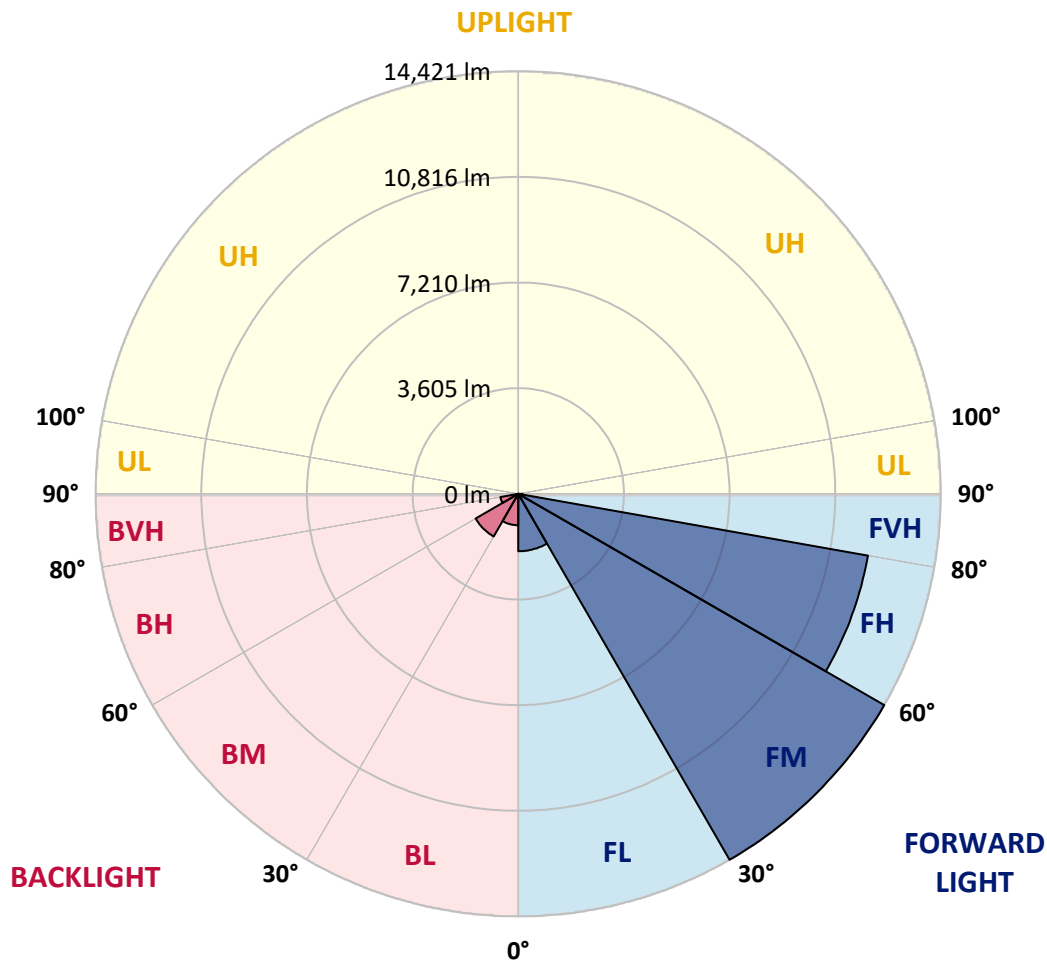


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1960.1	6.1			
FM (30°-60°)	14420.9	45.0			
FH (60°-80°)	12118.1	37.9			G5
FVH (80°-90°)	141.0	0.4			G2/225
BL (0°-30°)	1072.2	3.3	B3/2500		
BM (30°-60°)	1680.0	5.2	B2/2500		
BH (60°-80°)	618.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7
2.5°	4688.5	4730.9	4724.8	4753.1	4763.3	4803.7	4844.2	4898.7	4959.4	4957.3	4997.8
5°	4423.6	4466.0	4476.2	4514.6	4563.1	4625.8	4708.6	4817.8	4931.1	4949.2	5030.1
7.5°	4110.2	4154.7	4181.0	4257.8	4346.8	4476.2	4611.6	4771.4	4959.4	4985.7	5141.3
10°	3796.9	3837.3	3871.6	3980.8	4122.3	4314.4	4534.8	4765.3	5018.0	5056.4	5276.8
12.5°	3602.8	3641.2	3679.6	3774.7	3950.6	4185.1	4484.3	4793.6	5115.1	5169.6	5460.8
15°	3534.0	3568.4	3598.8	3683.6	3847.4	4114.2	4474.1	4852.2	5238.4	5311.1	5683.1
17.5°	3544.1	3562.3	3582.6	3647.3	3807.0	4082.0	4492.4	4953.3	5383.9	5448.6	5905.5
20°	3602.8	3612.9	3614.9	3659.4	3800.9	4077.9	4528.8	5050.4	5521.4	5608.4	6125.9
22.5°	3677.6	3681.6	3677.6	3707.9	3839.3	4108.2	4577.2	5167.6	5675.1	5756.0	6348.3
25°	4027.3	3950.6	3853.5	3794.9	3904.0	4166.8	4650.0	5325.3	5842.9	5921.7	6564.6
27.5°	5113.0	4892.6	4545.0	4154.7	4037.5	4251.8	4751.1	5485.0	6012.8	6083.5	6797.2
30°	6876.0	6586.9	5996.6	5117.1	4466.0	4429.6	4882.6	5644.8	6192.6	6269.5	7045.8
32.5°	8643.0	8572.3	7891.0	6673.8	5430.4	4825.9	5100.9	5861.1	6431.2	6491.8	7381.4
35°	10430.2	10286.7	9728.7	8525.7	6916.4	5632.6	5464.8	6144.2	6744.6	6813.3	7870.7
37.5°	11799.0	11712.1	11366.3	10375.7	8679.4	6878.1	6087.5	6582.9	7199.5	7276.3	8497.5
40°	13008.0	12967.6	12850.3	12197.3	10650.6	8507.5	7055.9	7262.1	7830.3	7921.2	9265.7
42.5°	13958.2	14053.3	14120.0	13938.0	12682.4	10367.6	8358.0	8216.4	8709.7	8802.7	10244.3
45°	14930.7	14963.1	15231.9	15494.7	14700.1	12312.5	9825.8	9334.5	9803.5	9918.7	11416.9
47.5°	15555.4	15684.8	16157.9	16620.9	16396.4	14241.2	11402.7	10654.7	11071.1	11287.5	12731.0
50°	15601.9	15846.5	16497.6	17304.3	17631.7	16077.0	13117.1	12158.9	12601.7	12840.2	14134.1
52.5°	14827.5	15207.6	16216.5	17397.2	18298.9	17631.7	14890.3	13663.0	14231.1	14542.5	15589.7
55°	11368.4	11865.7	15159.1	16891.8	18325.2	18810.4	16616.8	15229.9	16046.7	16398.5	17162.7
57.5°	9904.6	10155.3	11918.3	16014.3	17838.0	19285.6	18177.7	16722.0	18022.0	18458.6	18648.6
60°	8240.7	8570.2	9995.6	14578.9	17176.8	19332.0	19556.5	18646.7	20163.0	20654.3	20011.4
62.5°	5600.3	5958.1	7375.4	12112.3	16273.1	19309.8	20686.7	20628.0	22542.6	23070.3	21165.7
65°	3469.3	3693.8	4627.8	9890.4	15009.5	19334.1	21869.3	23033.9	25053.6	25589.3	22059.4
67.5°	2741.5	2844.6	3331.9	7593.7	12832.1	18788.1	23050.0	25296.2	27417.0	27841.6	22332.3
70°	1841.8	1904.4	2424.1	5090.8	9546.7	16269.1	23027.9	26432.4	28634.1	28846.4	21337.6
72.5°	970.5	1019.0	1417.3	2357.4	5766.0	11564.5	19410.8	25073.9	27423.1	27103.7	18238.2
75°	485.2	566.1	954.3	1196.9	2462.5	6449.4	12053.7	19768.8	21584.2	20347.0	11701.9
77.5°	368.0	444.7	788.5	788.5	857.2	2171.4	5104.9	10782.1	9945.1	8281.1	3435.0
80°	234.5	303.3	689.4	596.4	357.8	552.0	1330.3	3020.5	2112.7	1607.3	624.7
82.5°	137.5	198.1	574.2	394.2	200.2	204.2	376.1	642.9	547.9	426.6	192.1
85°	54.6	129.4	394.2	155.7	78.8	50.5	113.3	137.5	113.3	84.9	48.5
87.5°	0.0	30.3	68.8	0.0	6.0	4.0	8.1	10.1	10.1	8.1	16.2
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°	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7	4993.7
2.5°	5015.9	5020.0	5032.1	5034.2	5005.9	4969.5	4955.4	4949.2	4925.0	4923.0	4927.0
5°	5076.6	5094.9	5076.6	5024.0	4898.7	4722.8	4589.4	4480.2	4381.2	4350.8	4332.7
7.5°	5198.0	5216.1	5161.6	4955.4	4640.0	4290.1	3974.7	3752.4	3552.2	3477.4	3447.1
10°	5371.8	5396.1	5224.2	4807.8	4249.8	3687.6	3153.9	2777.9	2484.7	2365.5	2314.9
12.5°	5590.1	5600.3	5258.6	4583.3	3742.3	2939.6	2183.5	1781.1	1520.4	1423.3	1393.0
15°	5830.7	5816.6	5262.7	4278.0	3050.8	2078.4	1425.4	1170.6	1065.5	1033.1	1033.1
17.5°	6083.5	6024.8	5181.8	3837.3	2292.7	1421.3	1057.4	996.7	978.6	970.5	968.4
20°	6332.1	6200.7	5034.2	3261.1	1645.7	1061.4	960.3	942.2	932.0	928.0	923.9
22.5°	6558.6	6334.2	4781.4	2591.9	1194.8	938.1	907.7	891.5	873.4	865.3	863.3
25°	6778.9	6411.0	4425.6	1967.2	956.3	877.4	853.2	822.9	798.6	788.5	784.4
27.5°	6993.3	6459.5	3980.8	1455.7	853.2	820.8	776.3	733.9	715.7	711.7	707.7
30°	7221.7	6475.6	3475.4	1085.7	790.5	750.1	685.4	636.8	626.8	628.7	628.7
32.5°	7500.7	6499.9	2965.9	889.6	737.9	665.1	588.3	537.8	529.7	537.8	535.8
35°	7834.3	6548.5	2474.7	818.8	691.5	578.2	495.3	452.8	444.7	450.9	448.8
37.5°	8287.2	6627.3	2015.7	804.6	653.0	505.4	416.5	382.1	382.1	384.2	382.1
40°	8889.6	6837.6	1605.3	794.6	632.8	450.9	351.8	337.6	343.7	347.8	347.8
42.5°	9623.5	7284.4	1328.3	782.4	610.6	426.6	319.4	313.3	323.5	327.5	327.5
45°	10446.4	7850.5	1231.2	762.2	590.4	442.8	305.2	297.1	309.3	311.4	313.3
47.5°	11297.6	8404.5	1219.1	739.9	570.1	467.0	301.2	283.0	297.1	299.2	301.2
50°	12158.9	8766.3	1231.2	705.6	537.8	467.0	303.3	268.9	281.1	287.1	289.2
52.5°	13026.2	8932.2	1223.1	630.8	481.1	438.7	303.3	256.8	268.9	273.0	273.0
55°	13867.2	8899.8	1099.8	519.6	408.4	388.2	295.2	246.6	254.7	256.8	256.8
57.5°	14532.3	8448.9	871.4	404.4	331.6	323.5	268.9	234.5	240.6	238.5	238.5
60°	14880.1	7458.3	622.7	311.4	260.8	254.7	236.6	218.3	222.4	212.3	210.2
62.5°	14884.1	6148.2	416.5	246.6	208.3	202.1	202.1	196.1	192.1	171.9	165.7
65°	14566.8	4694.5	277.0	196.1	167.8	157.7	169.8	167.8	153.6	125.4	121.3
67.5°	13847.0	3077.2	210.2	153.6	129.4	123.3	135.5	141.6	131.4	105.2	103.1
70°	12367.0	1791.3	173.8	119.3	97.1	91.0	109.2	121.3	109.2	84.9	80.9
72.5°	10272.6	966.4	141.6	89.0	66.7	60.7	86.9	99.0	86.9	62.6	60.7
75°	6665.8	517.5	109.2	58.6	34.3	38.4	64.7	72.8	60.7	40.4	36.4
77.5°	2238.1	228.5	68.8	28.3	16.2	16.2	38.4	44.5	28.3	14.1	12.1
80°	499.4	95.0	28.3	12.1	6.0	6.0	8.1	8.1	4.0	0.0	0.0
82.5°	163.8	38.4	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	62.6	14.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	2.0	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)