

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: P969291

Luminaire Tested: **NAV-SB5D-730-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-730-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40585.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

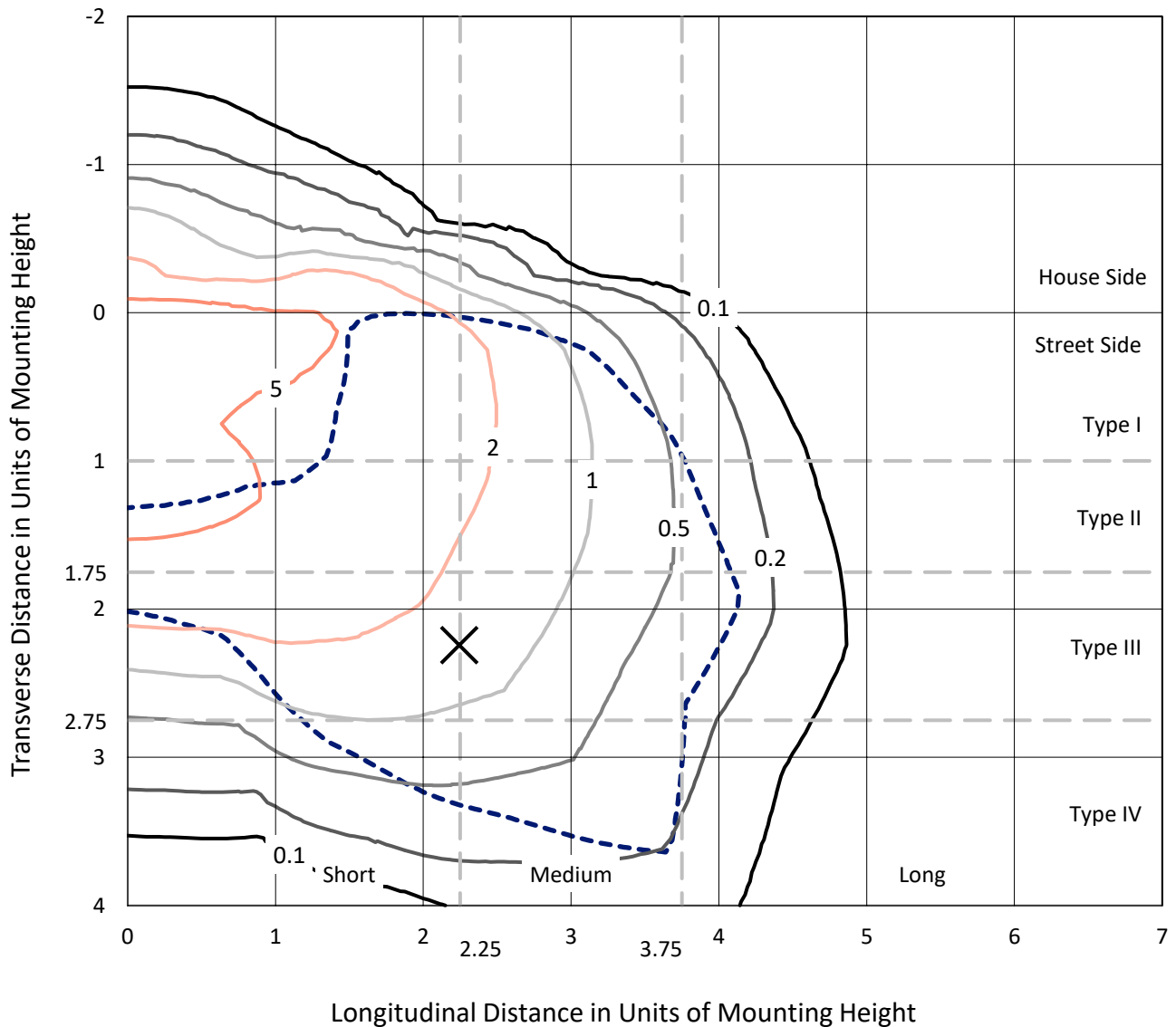
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

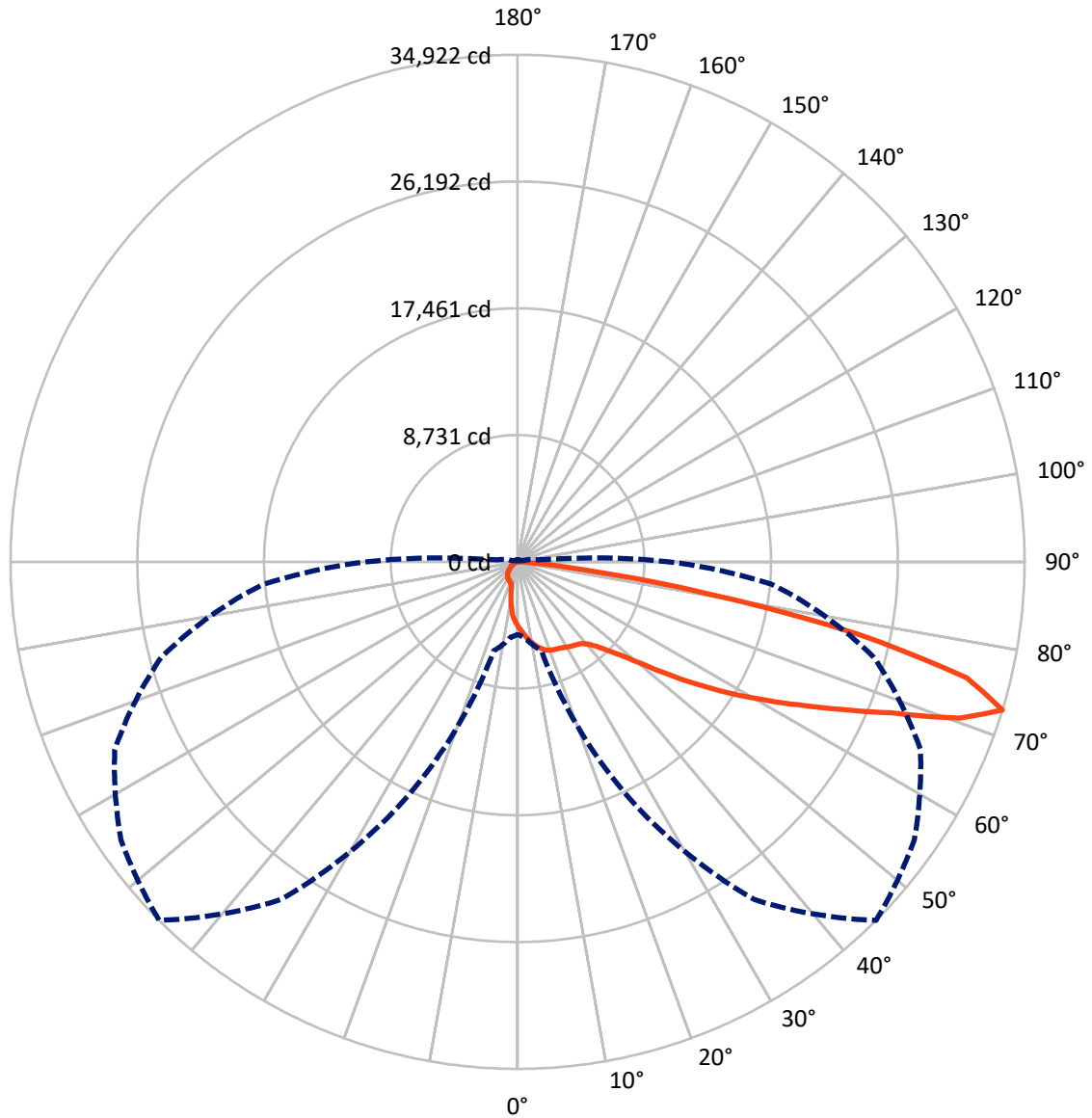
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4264.4	0.0	4264.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36321.5	0.0	36321.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	40585.9	0.0	40585.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.9	1.0
10°-20°	1224.3	3.0
20°-30°	2010.6	5.0
30°-40°	2851.5	7.0
40°-50°	4713.2	11.6
50°-60°	8466.7	20.9
60°-70°	11756.4	29.0
70°-80°	8527.8	21.0
80°-90°	616.5	1.5
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°	40585.9	100.0
0°-180°	40585.9	100.0

Coefficient of Utilization

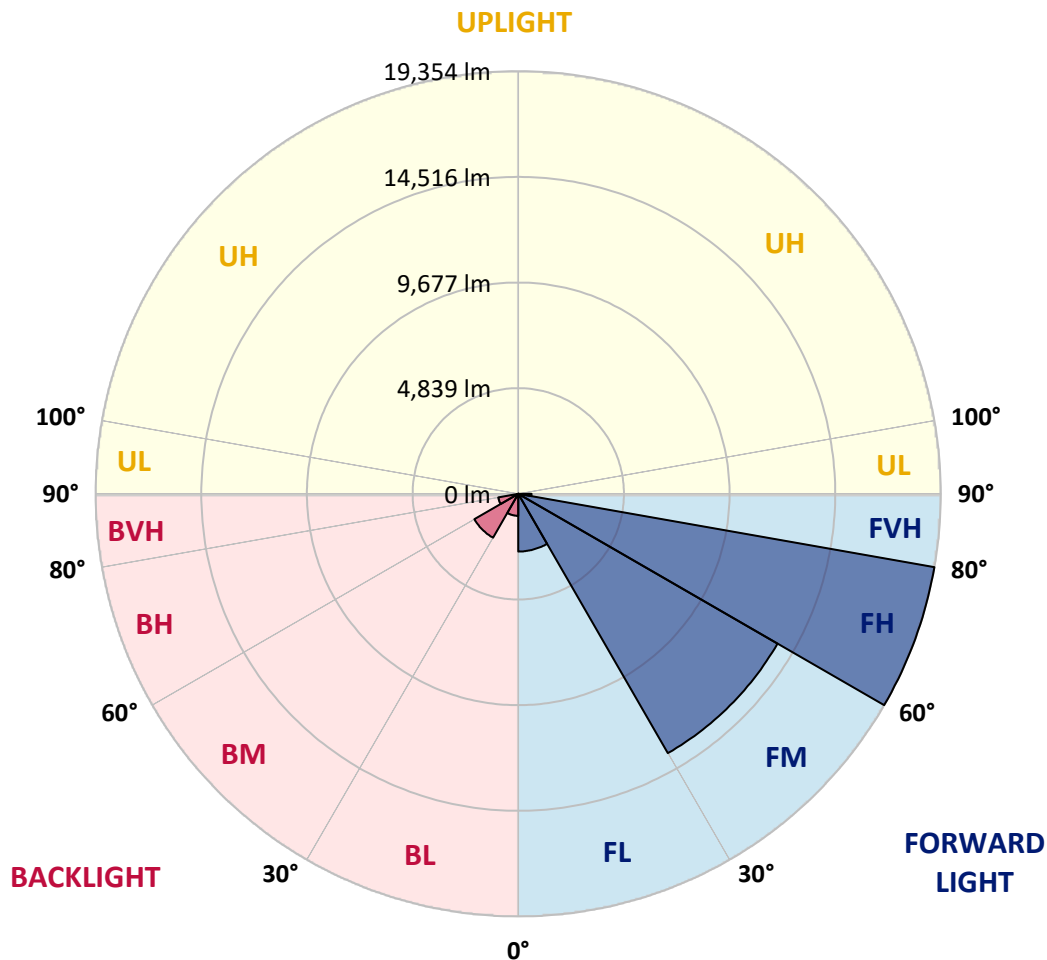


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.8	6.5			
FM (30°-60°)	13712.1	33.8			
FH (60°-80°)	19354.3	47.7			G5
FVH (80°-90°)	611.3	1.5			G4/750
BL (0°-30°)	1010.1	2.5	B3/2500		
BM (30°-60°)	2319.3	5.7	B2/2500		
BH (60°-80°)	929.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.2	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2
2.5°	4856.2	4864.5	4859.0	4825.8	4770.3	4739.9	4723.3	4667.8	4631.9	4568.1	4501.7
5°	5302.3	5335.5	5316.2	5249.6	5144.4	5069.5	5047.4	4933.8	4831.3	4712.2	4573.8
7.5°	5776.0	5792.6	5756.6	5670.7	5529.5	5402.1	5382.6	5224.7	5061.2	4878.4	4690.1
10°	6186.0	6205.3	6150.0	6025.4	5864.6	5706.8	5679.0	5504.6	5310.6	5086.2	4845.2
12.5°	6529.6	6548.9	6476.9	6327.3	6150.0	5986.5	5958.8	5776.0	5562.7	5313.4	5014.2
15°	6789.9	6825.9	6728.9	6568.3	6377.1	6213.7	6199.8	6019.8	5812.1	5535.0	5216.4
17.5°	6942.3	6978.3	6886.9	6692.9	6529.6	6391.0	6374.4	6224.8	6030.9	5764.9	5413.1
20°	6967.2	7000.4	6903.5	6734.6	6598.7	6487.9	6479.6	6371.6	6230.4	5975.4	5626.4
22.5°	6892.4	6933.9	6845.4	6709.5	6615.4	6557.2	6546.2	6485.2	6404.8	6188.7	5825.9
25°	6814.8	6848.1	6781.6	6662.5	6612.6	6607.0	6615.4	6604.3	6587.7	6404.8	6058.6
27.5°	6809.3	6845.4	6770.5	6657.0	6629.2	6687.4	6695.7	6748.4	6762.2	6601.5	6282.9
30°	6856.4	6881.3	6809.3	6690.2	6676.3	6809.3	6812.0	6906.2	6928.4	6767.8	6504.5
32.5°	6958.9	6986.6	6914.5	6740.1	6720.6	6906.2	6914.5	7039.2	7075.3	6945.1	6737.3
35°	7199.9	7233.1	7150.1	6878.6	6809.3	6997.7	7022.6	7169.5	7241.4	7133.4	6978.3
37.5°	7801.1	7704.1	7590.5	7158.4	7011.5	7141.7	7183.3	7355.1	7482.5	7357.9	7266.4
40°	9294.2	8989.5	8634.9	7634.8	7366.2	7449.2	7482.5	7654.2	7828.7	7706.9	7662.6
42.5°	11535.3	11175.3	10604.5	8731.9	7900.8	7942.3	7967.3	8116.9	8363.4	8266.4	8277.6
45°	13532.8	13402.5	12820.8	10604.5	8900.9	8695.9	8726.3	8803.9	9166.8	9130.8	9202.9
47.5°	15067.5	14992.7	14543.9	12754.3	10590.7	9618.4	9704.2	9740.3	10263.8	10391.2	10585.2
50°	16247.6	16219.9	15818.2	14665.8	12798.7	10978.6	11009.0	10931.4	11715.4	12031.2	12399.7
52.5°	17361.2	17455.4	17159.0	16441.5	15156.1	12759.8	12754.3	12388.7	13446.9	13923.3	14552.2
55°	18366.9	18400.1	18430.5	18253.3	17527.5	14787.7	14735.0	14136.7	15455.3	15948.4	16629.9
57.5°	19311.5	19325.4	19596.9	19959.7	19995.8	16965.1	16868.1	16150.6	17649.4	18001.2	18419.5
60°	19945.9	20009.6	20583.0	21591.4	22031.9	19211.8	19159.1	18427.8	19882.1	20045.6	19968.0
62.5°	19031.7	19419.5	20865.6	22865.7	23954.5	21702.2	21677.3	20990.3	22231.3	22098.4	21433.6
65°	15405.4	16062.0	18605.1	23727.3	25841.0	24483.6	24519.6	23788.2	24644.3	24212.1	22624.7
67.5°	10776.3	11468.9	14477.4	23796.6	27949.2	27749.7	27957.5	26810.6	27206.8	26237.1	22907.3
70°	7452.1	7809.4	9767.9	22306.2	29592.0	32248.7	32243.1	30522.8	29755.4	27159.6	21466.8
72.5°	5011.4	5197.1	6343.9	17696.4	28384.1	34922.0	34761.2	33359.5	30614.2	25400.5	17538.6
75°	2113.8	2249.5	2936.5	9945.3	22455.7	31949.5	31514.5	29481.2	27201.2	20001.3	10942.5
77.5°	670.5	728.6	1157.9	3559.8	12369.2	24015.4	23555.5	18411.2	18231.1	10033.9	4000.3
80°	318.6	371.3	651.0	1429.5	4867.3	13061.8	12998.0	8352.3	7842.6	2709.3	803.4
82.5°	138.5	163.5	360.2	764.5	2177.4	4659.5	4753.7	2842.3	2352.0	1027.8	246.5
85°	44.3	58.2	166.3	351.8	919.7	1157.9	1144.1	676.0	947.4	559.5	85.9
87.5°	0.0	0.0	55.5	80.4	94.2	66.5	74.8	58.2	263.2	155.2	30.4
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°	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2	4446.2
2.5°	4468.4	4424.1	4346.5	4274.6	4210.8	4147.0	4108.3	4052.8	4047.3	4047.3	4061.3
5°	4498.9	4426.9	4288.4	4141.5	3972.6	3811.9	3651.3	3496.1	3446.3	3410.2	3426.8
7.5°	4587.6	4474.0	4255.1	3975.4	3654.0	3302.1	3055.6	2789.6	2687.1	2631.8	2640.1
10°	4715.0	4559.8	4227.4	3737.0	3216.2	2737.1	2385.2	2097.0	1986.2	1939.2	1939.2
12.5°	4856.2	4665.1	4177.6	3440.6	2737.1	2163.6	1820.1	1687.0	1670.4	1670.4	1670.4
15°	5025.3	4792.6	4091.7	3091.6	2235.6	1712.1	1590.1	1595.7	1612.3	1623.4	1623.4
17.5°	5199.8	4928.3	3955.9	2701.0	1792.3	1540.3	1543.0	1551.3	1565.2	1576.2	1576.2
20°	5388.1	5064.0	3775.9	2285.4	1537.5	1490.5	1498.8	1507.1	1518.1	1523.7	1526.4
22.5°	5590.3	5191.5	3562.6	1878.2	1451.6	1448.8	1451.6	1459.9	1473.7	1473.7	1479.3
25°	5806.4	5332.8	3318.7	1581.8	1407.3	1407.3	1412.9	1418.4	1429.5	1429.5	1432.2
27.5°	6028.1	5462.9	3061.2	1426.7	1368.5	1365.7	1365.7	1374.0	1379.5	1382.3	1385.1
30°	6271.9	5615.4	2803.5	1393.5	1338.0	1324.2	1315.9	1321.4	1327.0	1329.7	1335.3
32.5°	6521.2	5762.1	2573.6	1407.3	1307.6	1282.6	1254.9	1249.4	1249.4	1260.4	1268.7
35°	6798.2	5922.9	2396.2	1454.4	1291.0	1221.7	1177.3	1152.4	1155.2	1171.8	1180.1
37.5°	7130.6	6116.8	2266.1	1496.0	1279.8	1152.4	1080.5	1049.9	1030.5	1049.9	1044.4
40°	7565.6	6402.0	2171.9	1529.2	1266.0	1072.0	975.1	925.3	889.3	900.4	894.8
42.5°	8205.5	6850.9	2135.9	1532.0	1235.5	978.0	867.0	800.6	747.9	750.7	739.6
45°	9103.1	7560.1	2321.5	1496.0	1169.0	875.5	753.5	664.8	631.6	623.3	612.2
47.5°	10333.1	8593.4	2750.9	1421.2	1072.0	775.7	642.7	568.0	542.9	529.1	520.8
50°	11981.4	9920.4	3227.3	1338.0	975.1	681.5	551.2	504.2	487.6	473.8	471.0
52.5°	13892.8	11266.7	3617.9	1254.9	878.2	598.4	493.1	465.5	451.5	440.4	437.7
55°	15646.4	12194.7	3595.8	1166.2	784.0	531.9	451.5	434.9	418.3	407.2	401.7
57.5°	16737.9	12324.9	2964.2	1069.3	676.0	479.3	412.8	401.7	382.3	368.5	365.7
60°	17239.4	11582.5	2077.7	941.9	568.0	429.4	371.3	365.7	340.7	321.3	315.8
62.5°	17330.8	10202.8	1385.1	784.0	473.8	382.3	329.6	321.3	288.1	254.8	238.2
65°	16959.5	8230.4	958.5	612.2	404.5	332.4	282.6	266.0	229.9	196.7	185.6
67.5°	15785.0	5778.7	667.6	440.4	343.5	263.2	224.4	218.8	191.2	163.5	155.2
70°	13632.5	3293.8	446.0	329.6	271.5	180.1	177.3	182.9	155.2	132.9	121.9
72.5°	10452.2	1507.1	277.1	241.0	185.6	121.9	141.2	144.0	119.1	99.7	88.7
75°	6152.8	645.4	174.6	155.2	94.2	80.4	102.5	105.3	80.4	63.8	55.5
77.5°	2094.3	243.7	110.8	91.4	47.0	44.3	66.5	66.5	44.3	24.9	19.4
80°	476.5	91.4	55.5	36.0	22.1	19.4	22.1	19.4	11.1	2.8	0.0
82.5°	135.7	36.0	22.1	13.8	8.3	8.3	2.8	0.0	0.0	0.0	0.0
85°	38.7	16.6	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	2.8	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)