

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: P971326

Luminaire Tested: **NAV-SB6D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44240 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

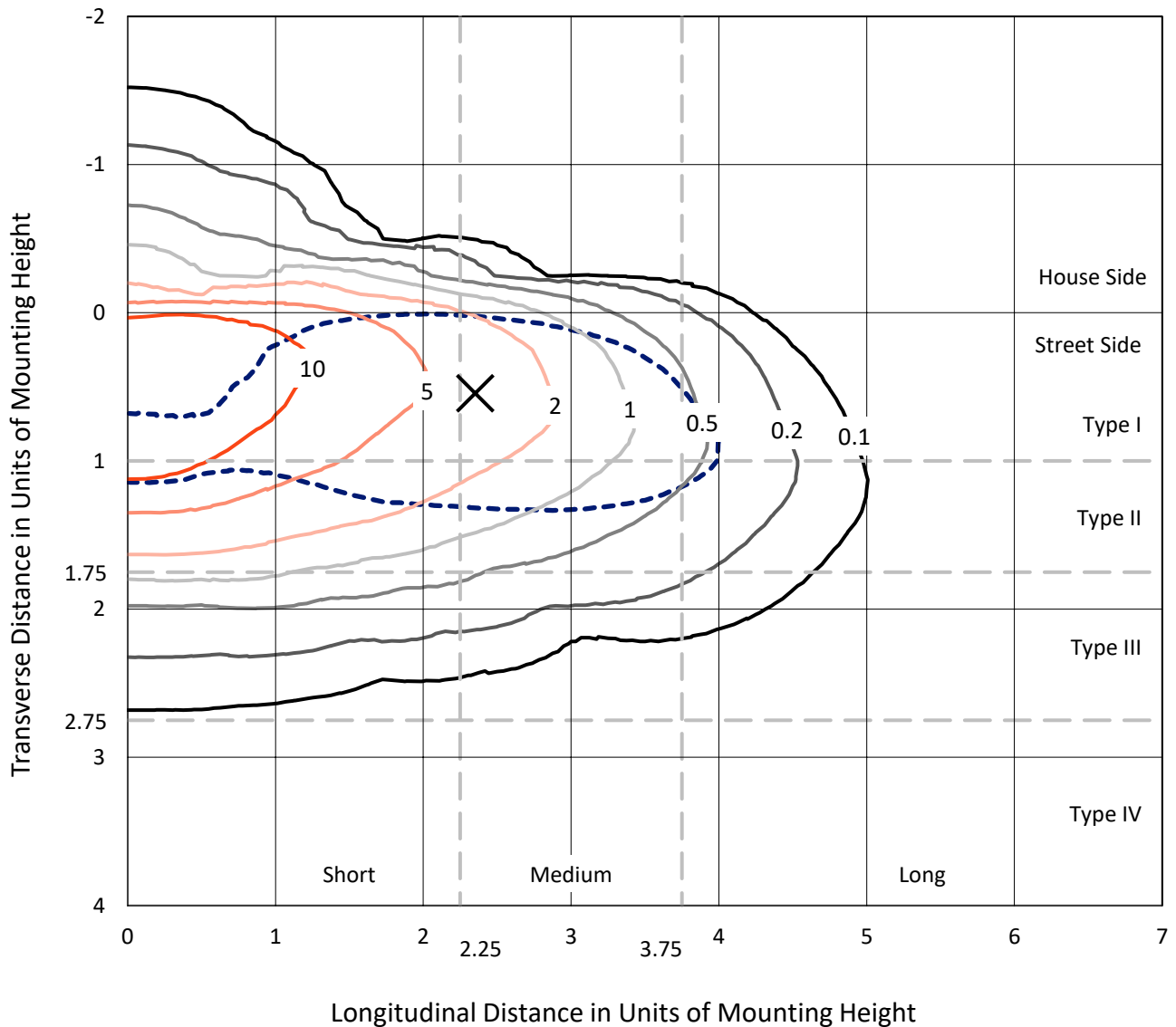
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

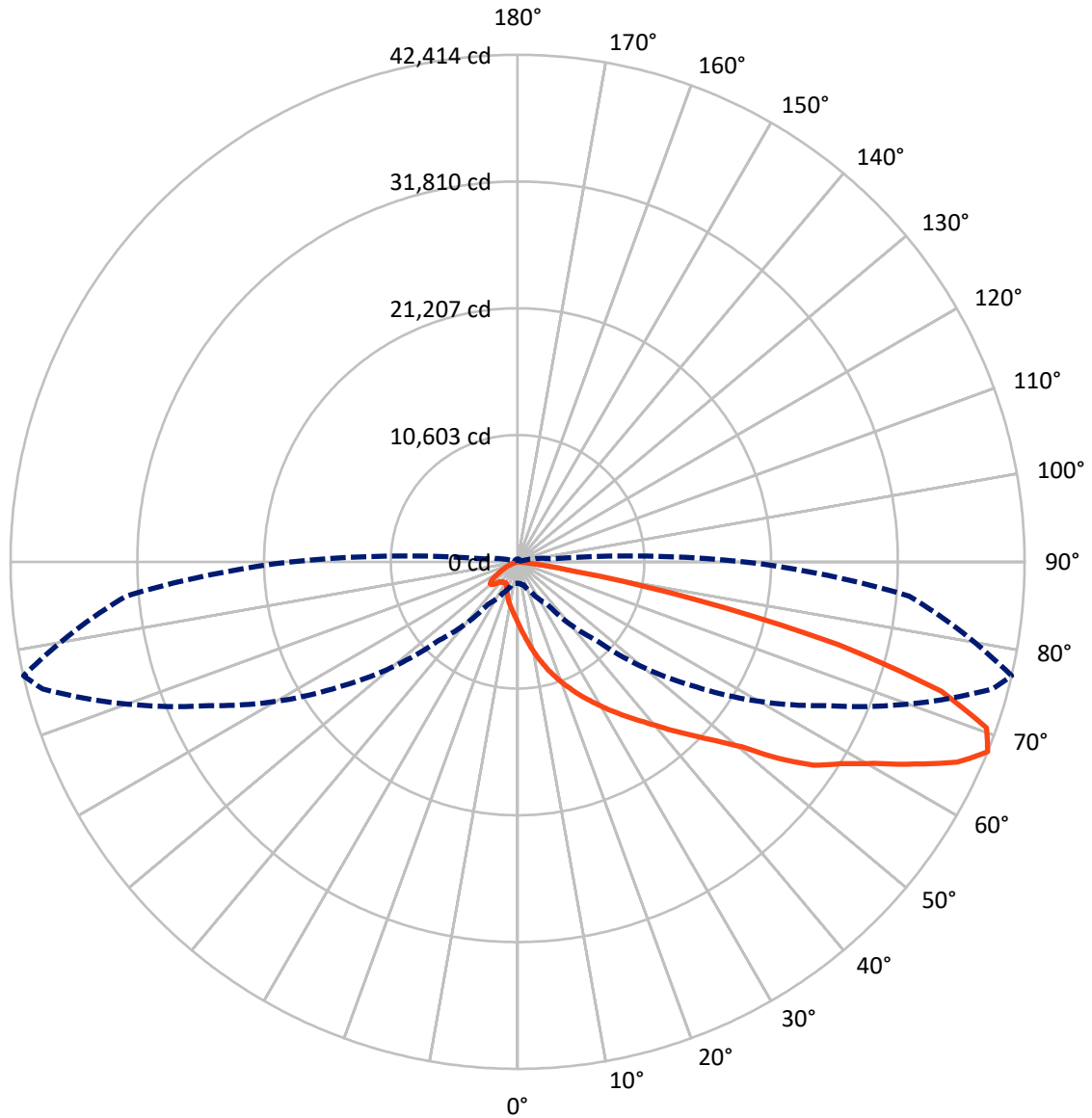
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3254.8	0.0	3254.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	40985.3	0.0	40985.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	44240.0	0.0	44240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.7	1.2
10°-20°	1823.4	4.1
20°-30°	3518.7	8.0
30°-40°	6108.6	13.8
40°-50°	8869.4	20.0
50°-60°	10185.4	23.0
60°-70°	8842.8	20.0
70°-80°	4165.1	9.4
80°-90°	206.0	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°	44240.0	100.0
0°-180°	44240.0	100.0

Coefficient of Utilization

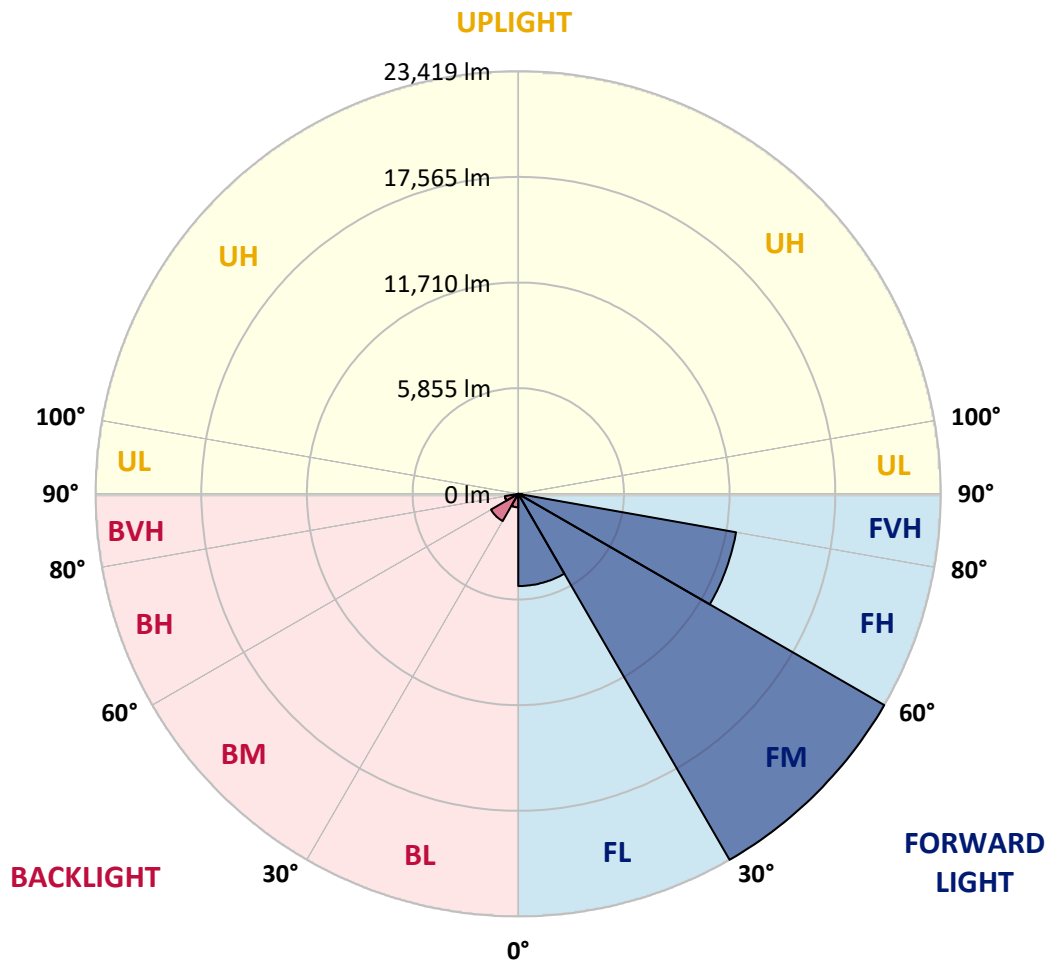


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5109.2	11.5			
FM (30°-60°)	23419.5	52.9			
FH (60°-80°)	12254.4	27.7			G5
FVH (80°-90°)	202.2	0.5			G2/225
BL (0°-30°)	753.5	1.7	B2/1000		
BM (30°-60°)	1743.9	3.9	B2/2500		
BH (60°-80°)	753.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G5
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5
2.5°	7063.0	7106.9	7043.8	6923.0	6741.6	6623.4	6335.0	6063.1	5760.8	5664.7	5362.5
5°	8609.7	8648.1	8576.7	8444.9	8203.1	7972.3	7593.2	7024.5	6433.9	6244.4	5708.6
7.5°	9755.2	9777.3	9749.8	9628.8	9398.1	9137.2	8714.0	8041.0	7164.6	6955.9	6134.4
10°	10579.4	10650.9	10642.6	10595.9	10442.1	10230.5	9779.9	9013.5	7983.3	7714.2	6615.2
12.5°	11126.1	11205.8	11252.4	11356.9	11348.6	11214.0	10818.5	10008.0	8799.2	8483.3	7156.4
15°	11285.5	11370.6	11549.2	11790.9	12005.2	12073.9	11796.4	10983.3	9697.5	9293.8	7711.4
17.5°	11194.7	11326.7	11540.9	11922.8	12392.6	12703.0	12672.8	11925.6	10513.5	10052.0	8255.2
20°	11395.3	11521.7	11689.3	12010.7	12557.4	13120.5	13345.8	12826.6	11323.9	10840.4	8826.7
22.5°	12505.2	12483.2	12499.7	12551.9	12878.8	13436.5	13900.7	13645.3	12126.1	11631.6	9431.1
25°	14263.4	14164.5	13996.9	13714.0	13631.6	13900.7	14384.2	14370.5	12972.2	12442.0	10049.2
27.5°	16279.9	16263.4	15870.5	15189.2	14804.6	14700.2	14931.0	15076.5	13810.1	13244.2	10670.0
30°	18211.1	18255.0	17724.8	16966.6	16260.6	15851.2	15642.5	15746.9	14661.7	14109.5	11310.2
32.5°	19892.4	19939.1	19362.1	18474.8	17601.2	17106.7	16667.2	16408.9	15590.2	14988.7	12013.4
35°	21312.7	21359.4	20697.3	19716.6	18785.3	18337.5	17840.2	17134.2	16524.3	15963.9	12796.4
37.5°	22581.9	22568.1	21680.8	20691.8	19777.0	19422.6	19161.7	18027.1	17485.9	16944.7	13664.5
40°	23331.9	23389.6	22631.3	21540.7	20653.3	20395.1	20378.6	19134.2	18595.8	18071.0	14615.1
42.5°	23551.6	23653.3	23103.8	22208.3	21403.3	21123.1	21554.4	20331.9	19886.8	19375.9	15689.2
45°	23156.1	23254.9	23004.9	22384.1	21914.3	21733.0	22565.4	21573.7	21266.0	20760.5	16900.7
47.5°	22002.2	22125.9	22186.2	22054.4	22048.9	22233.0	23472.0	22881.3	22903.3	22386.8	18304.6
50°	19768.8	19977.6	20532.5	20999.5	21722.0	22628.6	24353.8	24298.9	24749.4	24304.4	20134.2
52.5°	15708.4	16005.1	17917.1	19194.6	20818.2	22554.4	25323.5	26573.5	27988.3	27337.3	22713.7
55°	12623.3	12623.3	14178.2	16568.3	19054.4	22065.4	25746.7	28051.5	30194.3	30040.5	24529.6
57.5°	10291.0	10414.6	11406.3	13518.9	16502.4	20900.6	26007.6	28980.0	31971.8	31859.2	26304.3
60°	6351.5	6618.0	8491.5	10576.7	13598.6	18826.5	25842.8	29919.6	34128.3	34218.9	28441.6
62.5°	3576.8	3675.8	4510.9	7609.7	10573.9	16038.1	24581.9	30444.3	36886.5	37271.0	30644.8
65°	2469.7	2519.1	2840.6	4736.1	7329.5	12768.9	22117.6	30117.4	39650.2	40427.6	32513.0
67.5°	1794.0	1818.7	2019.1	2892.8	4348.8	9258.0	18255.0	28469.1	41114.4	42413.8	32870.1
70°	1379.1	1395.5	1541.2	1901.1	2568.6	5714.2	13258.0	25191.7	40054.0	41606.2	31040.5
72.5°	1120.8	1137.3	1250.0	1406.6	1703.2	3379.0	8035.5	20458.3	35372.8	37048.5	26425.2
75°	945.0	967.0	1068.7	1170.3	1335.2	2170.2	3769.1	14246.9	26601.0	27699.9	18375.9
77.5°	524.7	483.5	868.1	969.8	1126.4	1373.6	1763.7	8384.4	14898.0	15202.9	8153.7
80°	326.9	337.9	689.5	780.2	865.4	692.3	807.7	3227.9	5164.7	4906.5	1579.6
82.5°	19.3	44.0	530.2	563.1	593.4	296.7	304.9	1096.1	1244.5	1142.9	280.2
85°	0.0	0.0	241.8	195.1	206.0	85.2	87.9	255.5	167.6	181.3	54.9
87.5°	0.0	0.0	0.0	5.5	0.0	8.2	16.5	21.9	8.2	11.0	19.3
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°	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5	5101.5
2.5°	5170.2	4977.9	4587.8	4206.0	3895.5	3607.1	3401.1	3206.0	3107.1	3101.5	3096.1
5°	5326.8	4923.0	4142.7	3453.2	2898.3	2453.2	2164.8	1958.8	1854.3	1818.7	1813.1
7.5°	5546.6	4939.5	3752.6	2793.8	2140.1	1758.2	1593.4	1527.5	1505.4	1480.7	1475.3
10°	5824.0	4977.9	3403.7	2250.0	1686.7	1494.4	1428.5	1401.1	1384.6	1368.1	1362.6
12.5°	6134.4	5013.6	3057.6	1868.1	1483.5	1384.6	1337.8	1304.9	1282.9	1263.7	1258.2
15°	6436.7	5035.6	2697.7	1601.6	1379.1	1299.4	1250.0	1214.2	1184.1	1162.0	1159.3
17.5°	6736.1	5065.9	2359.9	1442.3	1294.0	1214.2	1164.8	1120.8	1096.1	1071.4	1068.7
20°	7068.5	5060.3	2041.2	1329.6	1208.8	1129.1	1076.9	1035.7	1011.0	983.5	980.7
22.5°	7376.2	5032.9	1761.0	1233.5	1120.8	1044.0	986.3	945.0	920.3	898.3	895.5
25°	7730.6	5010.9	1527.5	1145.5	1038.4	961.6	898.3	859.9	832.4	813.1	810.5
27.5°	8071.3	4977.9	1357.1	1065.9	958.8	884.6	824.2	780.2	755.5	741.7	741.7
30°	8406.4	4969.6	1294.0	989.0	887.3	813.1	752.8	711.6	692.3	686.7	684.1
32.5°	8810.2	4991.6	1321.4	961.6	821.4	747.2	689.5	659.3	640.1	640.1	640.1
35°	9241.5	4986.1	1362.6	986.3	777.5	681.3	637.3	618.1	598.9	598.9	598.9
37.5°	9782.7	4994.4	1395.5	1027.5	761.0	626.4	601.7	576.9	565.9	565.9	565.9
40°	10590.4	5266.3	1379.1	1063.1	755.5	587.9	538.4	530.2	521.9	521.9	521.9
42.5°	11579.4	5857.0	1401.1	1065.9	752.8	560.5	494.5	511.0	491.8	489.0	486.3
45°	12661.8	6502.6	1541.2	1008.2	750.0	546.7	472.5	491.8	461.6	461.6	461.6
47.5°	13735.9	7142.7	1684.1	925.8	741.7	544.0	453.3	442.3	434.1	436.8	436.8
50°	15216.6	7664.6	1739.0	813.1	722.5	538.4	417.6	420.4	414.8	420.4	420.4
52.5°	16829.3	7774.5	1673.0	686.7	667.6	521.9	392.9	403.8	401.1	406.6	406.6
55°	17834.7	7656.4	1381.8	571.4	582.4	456.0	368.1	390.1	390.1	390.1	390.1
57.5°	18873.1	7153.7	980.7	464.3	483.5	373.6	346.1	376.4	373.6	370.8	370.8
60°	19620.4	6340.5	645.5	381.8	384.6	307.7	321.4	354.3	351.7	337.9	337.9
62.5°	20178.0	5442.1	414.8	324.2	294.0	277.5	294.0	321.4	310.5	280.2	274.7
65°	20114.9	4197.7	318.7	277.5	241.8	241.8	255.5	280.2	247.2	197.8	192.3
67.5°	18941.9	2840.6	263.7	233.5	203.3	200.6	211.6	233.5	211.6	167.6	162.1
70°	16845.8	1857.1	211.6	181.3	162.1	148.3	170.4	200.6	178.6	134.6	129.1
72.5°	13672.8	1131.8	159.4	131.8	118.1	96.1	134.6	164.8	142.9	98.9	93.4
75°	8846.0	576.9	109.9	85.2	63.1	57.7	98.9	123.6	98.9	60.5	52.2
77.5°	3384.6	241.8	60.5	38.4	33.0	27.5	54.9	74.2	41.2	13.7	11.0
80°	651.1	101.7	30.2	19.3	16.5	11.0	8.2	5.5	0.0	0.0	0.0
82.5°	112.6	33.0	11.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	0.0	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)