

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: P971328

Luminaire Tested: **NAV-SB6D-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39932 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

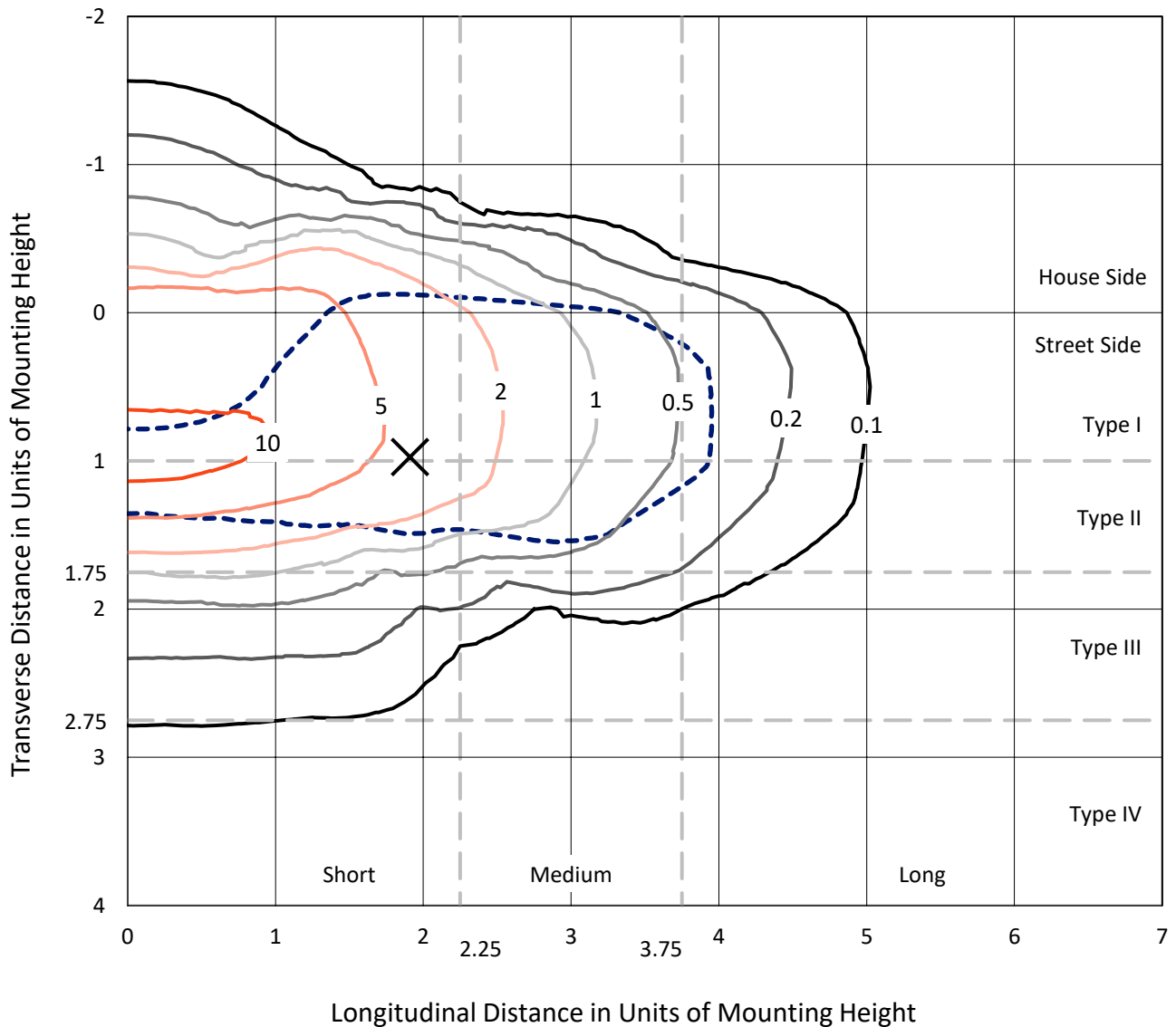
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

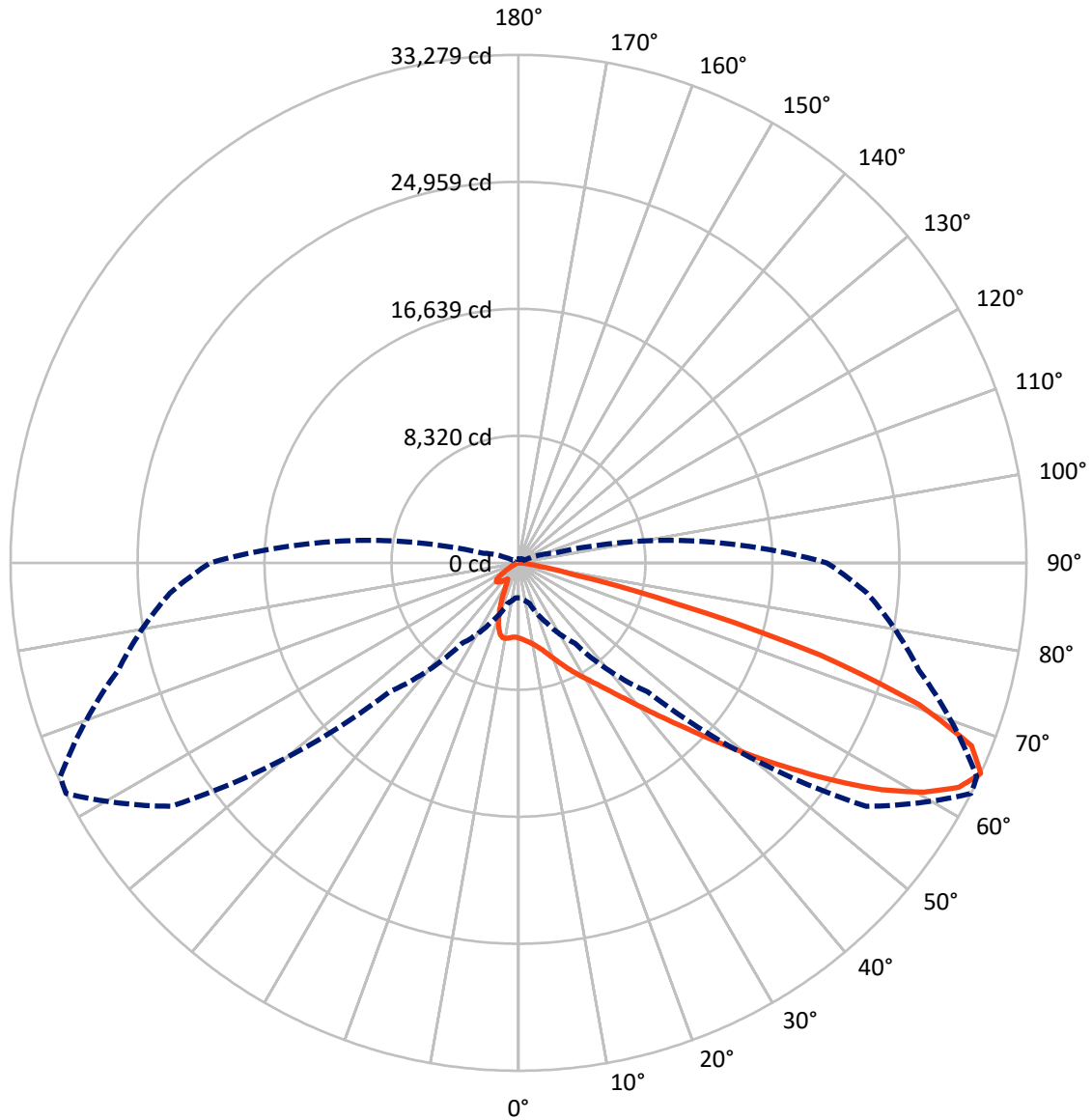
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5869.7	0.0	5869.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34062.3	0.0	34062.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	39932.0	0.0	39932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.3	1.2
10°-20°	1288.4	3.2
20°-30°	2243.4	5.6
30°-40°	4043.5	10.1
40°-50°	8019.6	20.1
50°-60°	10924.0	27.4
60°-70°	8719.4	21.8
70°-80°	3945.7	9.9
80°-90°	283.6	0.7
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°	39932.0	100.0
0°-180°	39932.0	100.0

Coefficient of Utilization

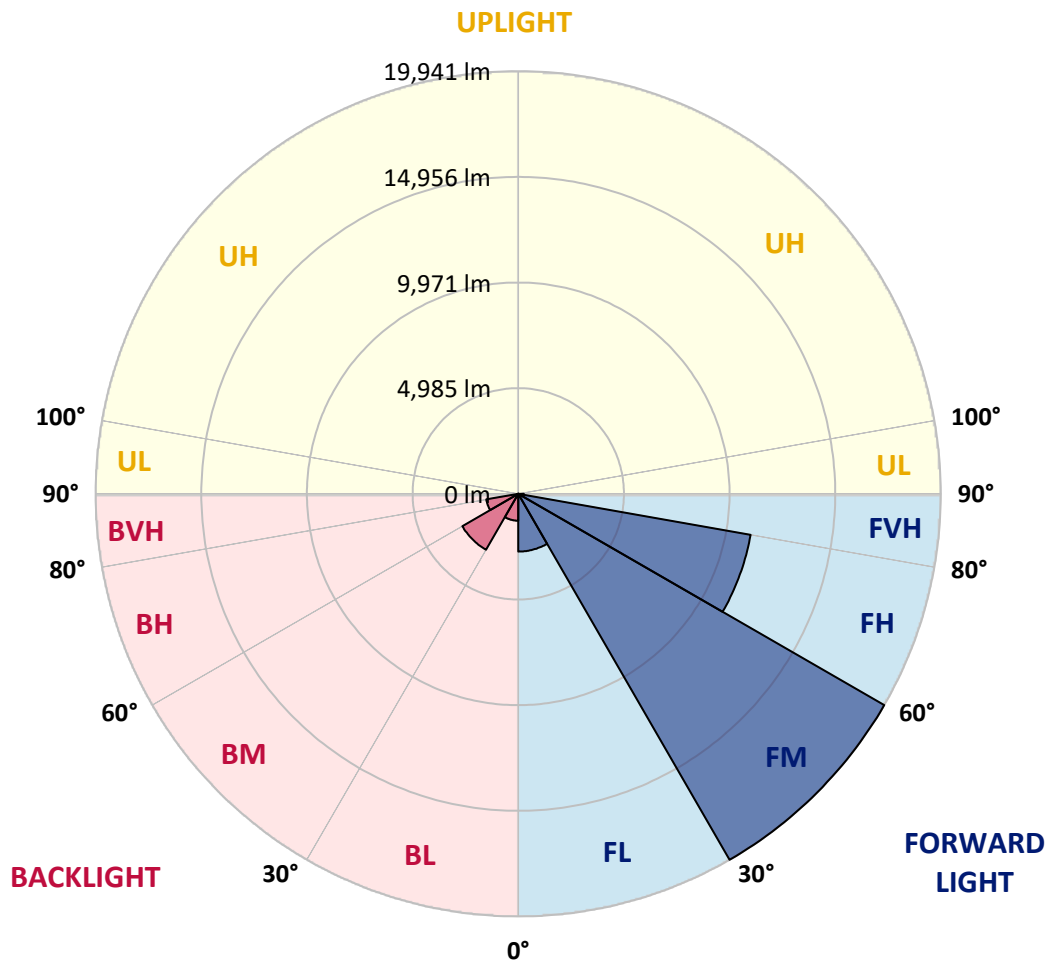


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2725.8	6.8			
FM (30°-60°)	19941.0	49.9			
FH (60°-80°)	11132.8	27.9			G4/12000
FVH (80°-90°)	262.6	0.7			G3/500
BL (0°-30°)	1270.3	3.2	B3/2500		
BM (30°-60°)	3046.0	7.6	B3/5000		
BH (60°-80°)	1532.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4
2.5°	5043.7	5030.0	5049.3	5041.0	5035.5	5024.5	5019.0	5013.5	5002.5	4994.3	4961.3
5°	5057.5	5049.3	5068.4	5084.9	5101.4	5117.9	5126.1	5137.1	5126.1	5104.2	5071.2
7.5°	4942.1	4936.6	4977.8	5027.2	5101.4	5164.6	5233.2	5271.8	5274.4	5266.2	5230.6
10°	4933.8	4920.1	4961.3	5021.8	5117.9	5230.6	5351.4	5433.8	5444.8	5480.6	5442.0
12.5°	5063.0	5049.3	5107.0	5172.9	5271.8	5389.9	5538.2	5653.6	5670.1	5719.5	5692.0
15°	5280.0	5260.7	5326.7	5411.9	5538.2	5672.9	5829.4	5933.8	5947.6	6007.9	5958.5
17.5°	5532.7	5513.5	5590.5	5681.1	5818.4	6002.5	6183.8	6299.1	6315.6	6354.1	6263.5
20°	5856.8	5832.1	5892.6	5975.0	6120.6	6340.3	6557.4	6722.3	6719.5	6719.5	6571.2
22.5°	6233.2	6194.8	6247.0	6312.9	6450.2	6716.7	7005.2	7200.2	7200.2	7123.3	6878.8
25°	6637.1	6598.6	6656.4	6716.7	6837.6	7139.8	7477.7	7719.5	7730.4	7598.5	7208.5
27.5°	7142.5	7093.1	7137.1	7208.5	7279.9	7587.6	7988.6	8268.9	8274.4	8071.1	7521.7
30°	8115.0	7974.9	7837.6	7760.7	7793.6	8098.5	8527.1	8837.6	8865.0	8584.8	7862.3
32.5°	9895.1	9867.7	9384.2	8752.4	8422.7	8647.9	9128.8	9502.4	9518.9	9159.0	8304.6
35°	12661.5	12628.6	11851.2	10647.9	9573.8	9384.2	9859.5	10301.8	10290.8	9884.2	8878.8
37.5°	15963.6	15933.4	14908.7	13298.9	11559.9	10496.8	10801.8	11266.0	11334.7	10801.8	9620.4
40°	18784.9	18672.2	18023.9	16471.9	14197.2	12342.8	12142.4	12450.0	12521.4	11889.6	10562.7
42.5°	20922.2	20826.1	20496.4	19526.7	17389.3	15073.5	13721.9	13840.1	13919.7	13161.5	11645.1
45°	22029.3	22007.3	22139.2	22048.5	20642.0	18425.0	15980.1	15488.4	15518.6	14570.8	12873.1
47.5°	22185.8	22174.8	22776.5	23628.1	23438.6	22205.1	18878.3	17543.2	17436.1	16161.4	14208.1
50°	21262.8	21240.9	22394.6	23990.7	25306.6	25380.7	22169.3	19859.1	19622.8	17806.9	15601.0
52.5°	18315.1	18309.7	20205.2	22861.6	25963.1	28160.8	25421.9	22402.9	22007.3	19548.6	17073.4
55°	14092.8	14194.4	16367.4	19507.4	24765.4	29498.7	28342.2	25226.9	24619.8	21301.2	18430.5
57.5°	9983.1	10131.4	12279.7	15076.3	21051.2	28707.6	30317.3	28056.5	27402.7	23048.5	19806.8
60°	5362.4	5494.3	7645.3	10983.1	15661.4	25757.1	31358.5	30512.4	29894.3	24707.7	21048.6
62.5°	3194.9	3238.9	4128.9	7090.3	10593.0	19677.7	30916.3	32383.2	31874.9	26100.5	22128.1
65°	2293.8	2302.0	2749.9	4329.5	6431.1	11955.5	27814.7	33278.8	33122.2	27149.9	22927.6
67.5°	1931.2	1925.8	2112.5	2876.3	4381.7	5988.8	21317.7	32012.4	32677.1	27814.7	23380.9
70°	1656.5	1664.8	1884.6	2107.1	3293.8	3390.0	10598.4	27872.4	29289.9	27990.5	23353.4
72.5°	1233.5	1261.0	1464.2	1920.2	2486.1	2332.3	3659.1	20666.7	23229.8	26372.4	22141.8
75°	870.8	884.6	1030.1	1615.3	1854.3	1697.7	1868.1	10683.6	13969.2	20218.9	18122.8
77.5°	670.3	695.1	780.2	1129.0	1826.9	1192.3	1142.8	3697.7	5681.1	12213.8	12425.3
80°	362.6	406.6	563.1	815.9	1282.9	843.4	565.9	1472.4	1925.8	5711.3	4791.0
82.5°	186.8	208.8	392.9	587.8	730.7	736.3	280.2	612.6	794.0	1763.6	656.6
85°	74.2	90.6	263.7	324.2	376.4	362.6	126.4	247.2	285.7	489.0	200.5
87.5°	16.5	27.5	96.1	74.2	71.4	76.9	30.2	57.7	54.9	57.7	35.7
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°	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4	4928.4
2.5°	4958.5	4947.6	4917.3	4884.4	4845.9	4824.0	4810.2	4807.5	4788.3	4774.6	4788.3
5°	5041.0	5030.0	4972.3	4903.6	4829.5	4771.8	4716.8	4667.3	4596.0	4582.3	4576.7
7.5°	5205.8	5175.6	5082.2	4988.8	4848.7	4681.1	4477.8	4244.3	4035.5	3972.4	3942.2
10°	5409.1	5367.9	5249.7	5084.9	4774.6	4318.5	3826.7	3370.7	3008.1	2906.5	2868.1
12.5°	5639.9	5604.2	5447.6	5142.6	4464.1	3637.2	2884.5	2318.5	1967.0	1879.0	1854.3
15°	5914.6	5862.4	5645.4	5054.7	3909.1	2763.6	1980.7	1645.5	1519.2	1502.6	1486.2
17.5°	6205.8	6120.6	5821.2	4738.8	3161.9	1964.2	1530.1	1434.0	1379.0	1362.5	1354.3
20°	6472.3	6362.4	5925.5	4260.8	2362.5	1530.1	1370.8	1307.6	1258.2	1238.9	1227.9
22.5°	6738.8	6582.1	5925.5	3609.7	1771.9	1357.1	1258.2	1200.5	1142.8	1118.1	1104.3
25°	7016.2	6807.4	5821.2	2884.5	1425.8	1244.5	1151.1	1087.8	1038.4	1008.2	997.2
27.5°	7285.4	6997.0	5582.2	2197.7	1269.2	1145.5	1052.2	991.7	945.0	923.0	923.0
30°	7540.9	7183.7	5247.0	1667.5	1167.6	1049.4	961.4	909.3	862.6	840.6	843.4
32.5°	7887.1	7420.0	4889.9	1368.1	1079.6	958.8	879.0	829.6	788.4	771.9	771.9
35°	8367.8	7768.9	4582.3	1343.4	1005.4	884.6	804.9	758.2	717.0	703.3	703.3
37.5°	9049.0	8332.0	4420.1	1508.2	945.0	818.7	744.5	695.1	656.6	645.5	642.9
40°	9889.7	9095.7	4508.1	1673.0	903.8	761.0	689.5	640.1	607.1	593.4	590.6
42.5°	10886.9	10038.0	4994.3	1799.4	876.4	711.6	637.3	582.4	560.4	554.9	554.9
45°	12032.5	11073.7	5738.8	1934.0	832.4	664.8	585.2	544.0	527.5	524.7	521.9
47.5°	13334.6	12211.0	6601.4	2101.6	788.4	620.8	544.0	516.5	502.8	497.2	497.2
50°	14625.7	13356.6	7488.6	2194.9	752.8	579.6	511.0	489.0	478.0	475.3	475.3
52.5°	15977.3	14535.1	8205.6	2107.1	722.5	546.6	483.5	467.0	456.0	453.3	453.3
55°	17265.7	15488.4	8329.4	1788.4	662.0	513.7	453.3	445.1	431.3	431.3	428.6
57.5°	18375.6	15966.3	7455.7	1313.1	601.6	464.2	423.0	414.8	403.8	401.1	398.3
60°	19394.7	15829.0	5755.3	884.6	535.7	414.8	384.6	379.1	368.1	354.3	351.7
62.5°	19968.9	15224.6	3936.6	576.9	469.8	362.6	340.6	337.9	313.1	285.7	280.2
65°	20185.9	13982.9	2455.9	420.4	392.9	310.5	294.0	288.4	252.8	222.5	219.8
67.5°	19996.4	11939.0	1238.9	332.4	310.5	258.2	241.8	241.8	217.0	189.5	186.8
70°	19238.2	8950.2	521.9	266.5	239.0	197.8	197.8	208.8	184.1	153.9	151.1
72.5°	17592.7	6021.7	277.5	203.3	178.6	140.1	162.1	170.4	145.5	115.4	115.4
75°	13985.6	3672.9	192.3	151.1	112.6	98.9	123.6	129.1	98.9	76.9	74.2
77.5°	9565.5	2109.8	129.1	96.1	71.4	57.7	85.2	79.6	52.2	35.7	38.4
80°	4200.3	879.0	74.2	44.0	27.5	21.9	30.2	21.9	16.5	11.0	11.0
82.5°	491.7	206.0	27.5	16.5	11.0	5.5	2.8	0.0	0.0	0.0	0.0
85°	101.7	24.7	13.7	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.3	5.5	2.8	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)